

Supplementary Table S2: All SNP-associations of GCAT traits reported in GWAS Catalog.

| Gene | SNP | hg38 chr_position | info | GWAS Catalog trait | study | date | GCAT trait | beta | s.e. | P-value |
|-----------------------|-------------|-------------------|-------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------------------------|--------------|-------------|-------------|
| CCDC141 | rs17362588 | 2_178856319 | 1 | Heart rate | 85,787 European ancestry individuals, 6,568 Indian Asian ancestry individuals | 2013-04-14 | heart_rate_c | 2,03 | 0,3608 | 1,935E-08 |
| CCDC141 | rs151041685 | 2_178860510 | 0,998 | Resting heart rate | 127,919 European ancestry individuals, 2,478 Asian ancestry individuals, 1,734 Black individuals, 684 Mixed ancestry individuals, 1,436 individuals | 2016-10-31 | heart_rate_c | 2,063 | 0,3615 | 1,219E-08 |
| CCDC141, LOC105373766 | rs79146658 | 2_178921341 | 0,971 | Diastolic blood pressure | 140,886 European ancestry individuals | 2017-01-30 | heart_rate_c | 2,359 | 0,3749 | 3,421E-10 |
| SLC45A2 | rs35407 | 5_33946466 | 1 | Cutaneous squamous cell carcinoma | 6,579 European ancestry cases, 280,558 European ancestry controls | 2016-07-18 | hair_color_black | 0,959439165 | 0,07321164 | 2,59131E-38 |
| SLC45A2 | rs35407 | 5_33946466 | 1 | Cutaneous squamous cell carcinoma | 6,579 European ancestry cases, 280,558 European ancestry controls | 2016-07-18 | hair_color_blonde | -1,632013326 | 0,272537616 | 1,04873E-09 |
| SLC45A2 | rs35407 | 5_33946466 | 1 | Cutaneous squamous cell carcinoma | 6,579 European ancestry cases, 280,558 European ancestry controls | 2016-07-18 | hair_color_brown | -0,603162522 | 0,068260262 | 1,34278E-18 |
| SLC45A2 | rs35407 | 5_33946466 | 1 | Cutaneous squamous cell carcinoma | 6,579 European ancestry cases, 280,558 European ancestry controls | 2016-07-18 | hair_color_light | -1,330839492 | 0,223849192 | 3,06059E-09 |
| SLC45A2 | rs35407 | 5_33946466 | 1 | Cutaneous squamous cell carcinoma | 6,579 European ancestry cases, 280,558 European ancestry controls | 2016-07-18 | skin_sensitivity_to_sun_binary_1_5 | -1,615607838 | 0,147946312 | 3,97105E-33 |
| SLC45A2 | rs35407 | 5_33946466 | 1 | Cutaneous squamous cell carcinoma | 6,579 European ancestry cases, 280,558 European ancestry controls | 2016-07-18 | skin_sensitivity_to_sun_binary_12_45 | -1,125351095 | 0,085598465 | 8,55657E-43 |
| SLC45A2 | rs35407 | 5_33946466 | 1 | Cutaneous squamous cell carcinoma | 6,579 European ancestry cases, 280,558 European ancestry controls | 2016-07-18 | eye_color_phototype_score | 0,7634 | 0,1037 | 2,169E-13 |
| SLC45A2 | rs35407 | 5_33946466 | 1 | Cutaneous squamous cell carcinoma | 6,579 European ancestry cases, 280,558 European ancestry controls | 2016-07-18 | eye_color | -0,2173 | 0,03309 | 5,687E-11 |
| SLC45A2 | rs35407 | 5_33946466 | 1 | Cutaneous squamous cell carcinoma | 6,579 European ancestry cases, 280,558 European ancestry controls | 2016-07-18 | hair_color_phototype_score | 2,121 | 0,1241 | 1,011E-63 |
| SLC45A2 | rs35407 | 5_33946466 | 1 | Cutaneous squamous cell carcinoma | 6,579 European ancestry cases, 280,558 European ancestry controls | 2016-07-18 | hair_color | -0,3928 | 0,02389 | 3,244E-59 |

| | | | | | | | | | | |
|---------|---------|------------|---|-----------------------------------|--------------------------------------------------------------------|------------|-----------------------------------------|--------------|-------------|-------------|
| SLC45A2 | rs35407 | 5_33946466 | 1 | Cutaneous squamous cell carcinoma | 6,579 European ancestry cases, 280,558 European ancestry controls | 2016-07-18 | phototype_score_categorical | 0,3732 | 0,01948 | 6,334E-79 |
| SLC45A2 | rs35407 | 5_33946466 | 1 | Cutaneous squamous cell carcinoma | 6,579 European ancestry cases, 280,558 European ancestry controls | 2016-07-18 | phototype_score | 7,939 | 0,3545 | 8,065E-106 |
| SLC45A2 | rs35407 | 5_33946466 | 1 | Cutaneous squamous cell carcinoma | 6,579 European ancestry cases, 280,558 European ancestry controls | 2016-07-18 | skin_color_phototype_score | 2,559 | 0,1136 | 4,548E-107 |
| SLC45A2 | rs35407 | 5_33946466 | 1 | Cutaneous squamous cell carcinoma | 6,579 European ancestry cases, 280,558 European ancestry controls | 2016-07-18 | skin_color | -0,5237 | 0,02299 | 2,493E-109 |
| SLC45A2 | rs35407 | 5_33946466 | 1 | Cutaneous squamous cell carcinoma | 6,579 European ancestry cases, 280,558 European ancestry controls | 2016-07-18 | skin_sensitivity_to_sun_phototype_score | 1,795 | 0,1219 | 5,081E-48 |
| SLC45A2 | rs35407 | 5_33946466 | 1 | Cutaneous squamous cell carcinoma | 6,579 European ancestry cases, 280,558 European ancestry controls | 2016-07-18 | skin_sensitivity_to_sun | 0,5694 | 0,03856 | 2,54E-48 |
| SLC45A2 | rs35407 | 5_33946466 | 1 | Basal cell carcinoma | 12.945 European ancestry cases, 274,252 European ancestry controls | 2016-08-19 | hair_color_black | 0,959439165 | 0,07321164 | 2,59131E-38 |
| SLC45A2 | rs35407 | 5_33946466 | 1 | Basal cell carcinoma | 12.945 European ancestry cases, 274,252 European ancestry controls | 2016-08-19 | hair_color_blonde | -1,632013326 | 0,272537616 | 1,04873E-09 |
| SLC45A2 | rs35407 | 5_33946466 | 1 | Basal cell carcinoma | 12.945 European ancestry cases, 274,252 European ancestry controls | 2016-08-19 | hair_color_brown | -0,603162522 | 0,068260262 | 1,34278E-18 |
| SLC45A2 | rs35407 | 5_33946466 | 1 | Basal cell carcinoma | 12.945 European ancestry cases, 274,252 European ancestry controls | 2016-08-19 | hair_color_light | -1,330839492 | 0,223849192 | 3,06059E-09 |
| SLC45A2 | rs35407 | 5_33946466 | 1 | Basal cell carcinoma | 12.945 European ancestry cases, 274,252 European ancestry controls | 2016-08-19 | skin_sensitivity_to_sun_binary_1_5 | -1,615607838 | 0,147946312 | 3,97105E-33 |
| SLC45A2 | rs35407 | 5_33946466 | 1 | Basal cell carcinoma | 12.945 European ancestry cases, 274,252 European ancestry controls | 2016-08-19 | skin_sensitivity_to_sun_binary_12_45 | -1,125351095 | 0,085598465 | 8,55657E-43 |
| SLC45A2 | rs35407 | 5_33946466 | 1 | Basal cell carcinoma | 12.945 European ancestry cases, 274,252 European ancestry controls | 2016-08-19 | eye_color_phototype_score | 0,7634 | 0,1037 | 2,169E-13 |
| SLC45A2 | rs35407 | 5_33946466 | 1 | Basal cell carcinoma | 12.945 European ancestry cases, 274,252 European ancestry controls | 2016-08-19 | eye_color | -0,2173 | 0,03309 | 5,687E-11 |

| | | | | | | | | | |
|---------|---------|------------|------------------------|--------------------------------------------------------------------|------------|-----------------------------------------|--------------|-------------|-------------|
| SLC45A2 | rs35407 | 5_33946466 | 1 Basal cell carcinoma | 12.945 European ancestry cases, 274,252 European ancestry controls | 2016-08-19 | hair_color_phototype_score | 2,121 | 0,1241 | 1,011E-63 |
| SLC45A2 | rs35407 | 5_33946466 | 1 Basal cell carcinoma | 12.945 European ancestry cases, 274,252 European ancestry controls | 2016-08-19 | hair_color | -0,3928 | 0,02389 | 3,244E-59 |
| SLC45A2 | rs35407 | 5_33946466 | 1 Basal cell carcinoma | 12.945 European ancestry cases, 274,252 European ancestry controls | 2016-08-19 | phototype_score_categorical | 0,3732 | 0,01948 | 6,334E-79 |
| SLC45A2 | rs35407 | 5_33946466 | 1 Basal cell carcinoma | 12.945 European ancestry cases, 274,252 European ancestry controls | 2016-08-19 | phototype_score | 7,939 | 0,3545 | 8,065E-106 |
| SLC45A2 | rs35407 | 5_33946466 | 1 Basal cell carcinoma | 12.945 European ancestry cases, 274,252 European ancestry controls | 2016-08-19 | skin_color_phototype_score | 2,559 | 0,1136 | 4,548E-107 |
| SLC45A2 | rs35407 | 5_33946466 | 1 Basal cell carcinoma | 12.945 European ancestry cases, 274,252 European ancestry controls | 2016-08-19 | skin_color | -0,5237 | 0,02299 | 2,493E-109 |
| SLC45A2 | rs35407 | 5_33946466 | 1 Basal cell carcinoma | 12.945 European ancestry cases, 274,252 European ancestry controls | 2016-08-19 | skin_sensitivity_to_sun_phototype_score | 1,795 | 0,1219 | 5,081E-48 |
| SLC45A2 | rs35407 | 5_33946466 | 1 Basal cell carcinoma | 12.945 European ancestry cases, 274,252 European ancestry controls | 2016-08-19 | skin_sensitivity_to_sun | 0,5694 | 0,03856 | 2,54E-48 |
| SLC45A2 | rs35407 | 5_33946466 | 1 Melanoma | 4,842 European ancestry cases, 286,565 European ancestry controls | 2017-02-09 | hair_color_black | 0,959439165 | 0,07321164 | 2,59131E-38 |
| SLC45A2 | rs35407 | 5_33946466 | 1 Melanoma | 4,842 European ancestry cases, 286,565 European ancestry controls | 2017-02-09 | hair_color_blonde | -1,632013326 | 0,272537616 | 1,04873E-09 |
| SLC45A2 | rs35407 | 5_33946466 | 1 Melanoma | 4,842 European ancestry cases, 286,565 European ancestry controls | 2017-02-09 | hair_color_brown | -0,603162522 | 0,068260262 | 1,34278E-18 |
| SLC45A2 | rs35407 | 5_33946466 | 1 Melanoma | 4,842 European ancestry cases, 286,565 European ancestry controls | 2017-02-09 | hair_color_light | -1,330839492 | 0,223849192 | 3,06059E-09 |
| SLC45A2 | rs35407 | 5_33946466 | 1 Melanoma | 4,842 European ancestry cases, 286,565 European ancestry controls | 2017-02-09 | skin_sensitivity_to_sun_binary_1_5 | -1,615607838 | 0,147946312 | 3,97105E-33 |
| SLC45A2 | rs35407 | 5_33946466 | 1 Melanoma | 4,842 European ancestry cases, 286,565 European ancestry controls | 2017-02-09 | skin_sensitivity_to_sun_binary_12_45 | -1,125351095 | 0,085598465 | 8,55657E-43 |

| | | | | | | | | | |
|---------|------------|------------|-------------------------|-------------------------------------------------------------------------------------------------|------------|-----------------------------------------|--------------|-------------|-------------|
| SLC45A2 | rs35407 | 5_33946466 | 1 Melanoma | 4,842 European ancestry cases, 286,565 European ancestry controls | 2017-02-09 | eye_color_phototype_score | 0,7634 | 0,1037 | 2,169E-13 |
| SLC45A2 | rs35407 | 5_33946466 | 1 Melanoma | 4,842 European ancestry cases, 286,565 European ancestry controls | 2017-02-09 | eye_color | -0,2173 | 0,03309 | 5,687E-11 |
| SLC45A2 | rs35407 | 5_33946466 | 1 Melanoma | 4,842 European ancestry cases, 286,565 European ancestry controls | 2017-02-09 | hair_color_phototype_score | 2,121 | 0,1241 | 1,011E-63 |
| SLC45A2 | rs35407 | 5_33946466 | 1 Melanoma | 4,842 European ancestry cases, 286,565 European ancestry controls | 2017-02-09 | hair_color | -0,3928 | 0,02389 | 3,244E-59 |
| SLC45A2 | rs35407 | 5_33946466 | 1 Melanoma | 4,842 European ancestry cases, 286,565 European ancestry controls | 2017-02-09 | phototype_score_categorical | 0,3732 | 0,01948 | 6,334E-79 |
| SLC45A2 | rs35407 | 5_33946466 | 1 Melanoma | 4,842 European ancestry cases, 286,565 European ancestry controls | 2017-02-09 | phototype_score | 7,939 | 0,3545 | 8,065E-106 |
| SLC45A2 | rs35407 | 5_33946466 | 1 Melanoma | 4,842 European ancestry cases, 286,565 European ancestry controls | 2017-02-09 | skin_color_phototype_score | 2,559 | 0,1136 | 4,548E-107 |
| SLC45A2 | rs35407 | 5_33946466 | 1 Melanoma | 4,842 European ancestry cases, 286,565 European ancestry controls | 2017-02-09 | skin_color | -0,5237 | 0,02299 | 2,493E-109 |
| SLC45A2 | rs35407 | 5_33946466 | 1 Melanoma | 4,842 European ancestry cases, 286,565 European ancestry controls | 2017-02-09 | skin_sensitivity_to_sun_phototype_score | 1,795 | 0,1219 | 5,081E-48 |
| SLC45A2 | rs35407 | 5_33946466 | 1 Melanoma | 4,842 European ancestry cases, 286,565 European ancestry controls | 2017-02-09 | skin_sensitivity_to_sun | 0,5694 | 0,03856 | 2,54E-48 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 Skin pigmentation | 363 South Asian ancestry low maxL* individuals, 374 South Asian ancestry high maxL* individuals | 2007-10-15 | hair_color_black | 0,976353725 | 0,070899558 | 2,88544E-42 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 Skin pigmentation | 363 South Asian ancestry low maxL* individuals, 374 South Asian ancestry high maxL* individuals | 2007-10-15 | hair_color_blonde | -1,467673089 | 0,239654451 | 9,1967E-10 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 Skin pigmentation | 363 South Asian ancestry low maxL* individuals, 374 South Asian ancestry high maxL* individuals | 2007-10-15 | hair_color_brown | -0,620670088 | 0,065780757 | 5,60739E-21 |

| | | | | | | | | | | |
|---------|------------|------------|-------|-------------------|-------------------------------------------------------------------------------------------------|------------|--------------------------------------|--------------|-------------|-------------|
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Skin pigmentation | 363 South Asian ancestry low maxL* individuals, 374 South Asian ancestry high maxL* individuals | 2007-10-15 | hair_color_light | -1,24503965 | 0,20464416 | 1,81068E-09 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Skin pigmentation | 363 South Asian ancestry low maxL* individuals, 374 South Asian ancestry high maxL* individuals | 2007-10-15 | skin_sensitivity_to_sun_binary_1_5 | -1,624706227 | 0,141812316 | 1,9736E-36 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Skin pigmentation | 363 South Asian ancestry low maxL* individuals, 374 South Asian ancestry high maxL* individuals | 2007-10-15 | skin_sensitivity_to_sun_binary_12_45 | -1,153158169 | 0,082415038 | 2,11762E-48 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Skin pigmentation | 363 South Asian ancestry low maxL* individuals, 374 South Asian ancestry high maxL* individuals | 2007-10-15 | eye_color_phototype_score | 0,8276 | 0,09948 | 1,137E-16 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Skin pigmentation | 363 South Asian ancestry low maxL* individuals, 374 South Asian ancestry high maxL* individuals | 2007-10-15 | eye_color | -0,2339 | 0,03176 | 2,07E-13 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Skin pigmentation | 363 South Asian ancestry low maxL* individuals, 374 South Asian ancestry high maxL* individuals | 2007-10-15 | freckling | 0,1944 | 0,03509 | 3,198E-08 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Skin pigmentation | 363 South Asian ancestry low maxL* individuals, 374 South Asian ancestry high maxL* individuals | 2007-10-15 | hair_color_phototype_score | 2,145 | 0,1188 | 1,155E-70 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Skin pigmentation | 363 South Asian ancestry low maxL* individuals, 374 South Asian ancestry high maxL* individuals | 2007-10-15 | hair_color | -0,3966 | 0,02289 | 2,648E-65 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Skin pigmentation | 363 South Asian ancestry low maxL* individuals, 374 South Asian ancestry high maxL* individuals | 2007-10-15 | phototype_score_categorical | 0,3864 | 0,01861 | 8,931E-92 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Skin pigmentation | 363 South Asian ancestry low maxL* individuals, 374 South Asian ancestry high maxL* individuals | 2007-10-15 | phototype_score | 8,183 | 0,3375 | 1,267E-122 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Skin pigmentation | 363 South Asian ancestry low maxL* individuals, 374 South Asian ancestry high maxL* individuals | 2007-10-15 | skin_color_phototype_score | 2,672 | 0,1078 | 6,543E-128 |

| | | | | | | | | | | |
|---------|------------|------------|-------|-------------------|-------------------------------------------------------------------------------------------------|------------|-----------------------------------------|--------------|-------------|-------------|
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Skin pigmentation | 363 South Asian ancestry low maxL* individuals, 374 South Asian ancestry high maxL* individuals | 2007-10-15 | skin_color | -0,5465 | 0,02182 | 2,227E-130 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Skin pigmentation | 363 South Asian ancestry low maxL* individuals, 374 South Asian ancestry high maxL* individuals | 2007-10-15 | skin_sensitivity_to_sun_phototype_score | 1,849 | 0,1168 | 4,543E-55 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Skin pigmentation | 363 South Asian ancestry low maxL* individuals, 374 South Asian ancestry high maxL* individuals | 2007-10-15 | skin_sensitivity_to_sun | 0,5847 | 0,03697 | 5,747E-55 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Hair color | 9,126 European ancestry individuals | 2010-06-24 | hair_color_black | 0,976353725 | 0,070899558 | 2,88544E-42 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Hair color | 9,126 European ancestry individuals | 2010-06-24 | hair_color_blonde | -1,467673089 | 0,239654451 | 9,1967E-10 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Hair color | 9,126 European ancestry individuals | 2010-06-24 | hair_color_brown | -0,620670088 | 0,065780757 | 5,60739E-21 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Hair color | 9,126 European ancestry individuals | 2010-06-24 | hair_color_light | -1,24503965 | 0,20464416 | 1,81068E-09 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Hair color | 9,126 European ancestry individuals | 2010-06-24 | skin_sensitivity_to_sun_binary_1_5 | -1,624706227 | 0,141812316 | 1,9736E-36 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Hair color | 9,126 European ancestry individuals | 2010-06-24 | skin_sensitivity_to_sun_binary_12_45 | -1,153158169 | 0,082415038 | 2,11762E-48 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Hair color | 9,126 European ancestry individuals | 2010-06-24 | eye_color_phototype_score | 0,8276 | 0,09948 | 1,137E-16 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Hair color | 9,126 European ancestry individuals | 2010-06-24 | eye_color | -0,2339 | 0,03176 | 2,07E-13 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Hair color | 9,126 European ancestry individuals | 2010-06-24 | freckling | 0,1944 | 0,03509 | 3,198E-08 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Hair color | 9,126 European ancestry individuals | 2010-06-24 | hair_color_phototype_score | 2,145 | 0,1188 | 1,155E-70 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Hair color | 9,126 European ancestry individuals | 2010-06-24 | hair_color | -0,3966 | 0,02289 | 2,648E-65 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Hair color | 9,126 European ancestry individuals | 2010-06-24 | phototype_score_categorical | 0,3864 | 0,01861 | 8,931E-92 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Hair color | 9,126 European ancestry individuals | 2010-06-24 | phototype_score | 8,183 | 0,3375 | 1,267E-122 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Hair color | 9,126 European ancestry individuals | 2010-06-24 | skin_color_phototype_score | 2,672 | 0,1078 | 6,543E-128 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Hair color | 9,126 European ancestry individuals | 2010-06-24 | skin_color | -0,5465 | 0,02182 | 2,227E-130 |

| | | | | | | | | | | |
|---------|------------|------------|-------|------------|-------------------------------------|------------|-----------------------------------------|--------------|-------------|-------------|
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Hair color | 9,126 European ancestry individuals | 2010-06-24 | skin_sensitivity_to_sun_phototype_score | 1,849 | 0,1168 | 4,543E-55 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Hair color | 9,126 European ancestry individuals | 2010-06-24 | skin_sensitivity_to_sun | 0,5847 | 0,03697 | 5,747E-55 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Eye color | 9,126 European ancestry individuals | 2010-06-24 | hair_color_black | 0,976353725 | 0,070899558 | 2,88544E-42 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Eye color | 9,126 European ancestry individuals | 2010-06-24 | hair_color_blonde | -1,467673089 | 0,239654451 | 9,1967E-10 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Eye color | 9,126 European ancestry individuals | 2010-06-24 | hair_color_brown | -0,620670088 | 0,065780757 | 5,60739E-21 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Eye color | 9,126 European ancestry individuals | 2010-06-24 | hair_color_light | -1,24503965 | 0,20464416 | 1,81068E-09 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Eye color | 9,126 European ancestry individuals | 2010-06-24 | skin_sensitivity_to_sun_binary_1_5 | -1,624706227 | 0,141812316 | 1,9736E-36 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Eye color | 9,126 European ancestry individuals | 2010-06-24 | skin_sensitivity_to_sun_binary_12_45 | -1,153158169 | 0,082415038 | 2,11762E-48 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Eye color | 9,126 European ancestry individuals | 2010-06-24 | eye_color_phototype_score | 0,8276 | 0,09948 | 1,137E-16 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Eye color | 9,126 European ancestry individuals | 2010-06-24 | eye_color | -0,2339 | 0,03176 | 2,07E-13 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Eye color | 9,126 European ancestry individuals | 2010-06-24 | freckling | 0,1944 | 0,03509 | 3,198E-08 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Eye color | 9,126 European ancestry individuals | 2010-06-24 | hair_color_phototype_score | 2,145 | 0,1188 | 1,155E-70 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Eye color | 9,126 European ancestry individuals | 2010-06-24 | hair_color_phototype_score_categorical | -0,3966 | 0,02289 | 2,648E-65 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Eye color | 9,126 European ancestry individuals | 2010-06-24 | phototype_score | 0,3864 | 0,01861 | 8,931E-92 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Eye color | 9,126 European ancestry individuals | 2010-06-24 | skin_color_phototype_score | 8,183 | 0,3375 | 1,267E-122 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Eye color | 9,126 European ancestry individuals | 2010-06-24 | skin_color | 2,672 | 0,1078 | 6,543E-128 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Eye color | 9,126 European ancestry individuals | 2010-06-24 | skin_color | -0,5465 | 0,02182 | 2,227E-130 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Eye color | 9,126 European ancestry individuals | 2010-06-24 | skin_sensitivity_to_sun_phototype_score | 1,849 | 0,1168 | 4,543E-55 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Eye color | 9,126 European ancestry individuals | 2010-06-24 | skin_sensitivity_to_sun | 0,5847 | 0,03697 | 5,747E-55 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Hair color | 9,126 European ancestry individuals | 2010-06-24 | hair_color_black | 0,976353725 | 0,070899558 | 2,88544E-42 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Hair color | 9,126 European ancestry individuals | 2010-06-24 | hair_color_blonde | -1,467673089 | 0,239654451 | 9,1967E-10 |

| | | | | | | | | | | |
|---------|------------|------------|-------|--------------------------------|--------------------------------------------------------------------------------------------------|------------|-----------------------------------------|--------------|-------------|-------------|
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Hair color | 9,126 European ancestry individuals | 2010-06-24 | hair_color_brown | -0,620670088 | 0,065780757 | 5,60739E-21 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Hair color | 9,126 European ancestry individuals | 2010-06-24 | hair_color_light | -1,24503965 | 0,20464416 | 1,81068E-09 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Hair color | 9,126 European ancestry individuals | 2010-06-24 | skin_sensitivity_to_sun_binary_1_5 | -1,624706227 | 0,141812316 | 1,9736E-36 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Hair color | 9,126 European ancestry individuals | 2010-06-24 | skin_sensitivity_to_sun_binary_12_45 | -1,153158169 | 0,082415038 | 2,11762E-48 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Hair color | 9,126 European ancestry individuals | 2010-06-24 | eye_color_phototype_score | 0,8276 | 0,09948 | 1,137E-16 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Hair color | 9,126 European ancestry individuals | 2010-06-24 | eye_color | -0,2339 | 0,03176 | 2,07E-13 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Hair color | 9,126 European ancestry individuals | 2010-06-24 | freckling | 0,1944 | 0,03509 | 3,198E-08 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Hair color | 9,126 European ancestry individuals | 2010-06-24 | hair_color_phototype_score | 2,145 | 0,1188 | 1,155E-70 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Hair color | 9,126 European ancestry individuals | 2010-06-24 | hair_color | -0,3966 | 0,02289 | 2,648E-65 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Hair color | 9,126 European ancestry individuals | 2010-06-24 | phototype_score_categorical | 0,3864 | 0,01861 | 8,931E-92 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Hair color | 9,126 European ancestry individuals | 2010-06-24 | phototype_score | 8,183 | 0,3375 | 1,267E-122 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Hair color | 9,126 European ancestry individuals | 2010-06-24 | skin_color_phototype_score | 2,672 | 0,1078 | 6,543E-128 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Hair color | 9,126 European ancestry individuals | 2010-06-24 | skin_color | -0,5465 | 0,02182 | 2,227E-130 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Hair color | 9,126 European ancestry individuals | 2010-06-24 | skin_sensitivity_to_sun_phototype_score | 1,849 | 0,1168 | 4,543E-55 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Hair color | 9,126 European ancestry individuals | 2010-06-24 | skin_sensitivity_to_sun | 0,5847 | 0,03697 | 5,747E-55 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Black vs. non-black hair color | 196 European ancestry black hair individuals, 6,895 European ancestry non-black hair individuals | 2015-07-13 | hair_color_black | 0,976353725 | 0,070899558 | 2,88544E-42 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Black vs. non-black hair color | 196 European ancestry black hair individuals, 6,895 European ancestry non-black hair individuals | 2015-07-13 | hair_color_blonde | -1,467673089 | 0,239654451 | 9,1967E-10 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Black vs. non-black hair color | 196 European ancestry black hair individuals, 6,895 European ancestry non-black hair individuals | 2015-07-13 | hair_color_brown | -0,620670088 | 0,065780757 | 5,60739E-21 |

| | | | | | | | | | | |
|---------|------------|------------|-------|--------------------------------|-----------------------------------------------------------------------------------------------------|------------|--------------------------------------|--------------|-------------|-------------|
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Black vs. non-black hair color | 196 European ancestry black hair individuals, 6,895 European ancestry non-black hair individuals | 2015-07-13 | hair_color_light | -1,24503965 | 0,20464416 | 1,81068E-09 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Black vs. non-black hair color | 196 European ancestry black hair individuals, 6,895 European ancestry non-black hair individuals | 2015-07-13 | skin_sensitivity_to_sun_binary_1_5 | -1,624706227 | 0,141812316 | 1,9736E-36 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Black vs. non-black hair color | 196 European ancestry black hair individuals, 6,895 European ancestry non-black hair individuals | 2015-07-13 | skin_sensitivity_to_sun_binary_12_45 | -1,153158169 | 0,082415038 | 2,11762E-48 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Black vs. non-black hair color | 196 European ancestry black hair individuals, 6,895 European ancestry non-black hair individuals | 2015-07-13 | eye_color_phototype_score | 0,8276 | 0,09948 | 1,137E-16 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Black vs. non-black hair color | 196 European ancestry black hair individuals, 6,895 European ancestry non-black hair individuals | 2015-07-13 | eye_color | -0,2339 | 0,03176 | 2,07E-13 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Black vs. non-black hair color | 196 European ancestry black hair individuals, 6,895 European ancestry non-black hair individuals | 2015-07-13 | freckling | 0,1944 | 0,03509 | 3,198E-08 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Black vs. non-black hair color | 196 European ancestry black hair individuals, 6,895 European ancestry non-black hair individuals | 2015-07-13 | hair_color_phototype_score | 2,145 | 0,1188 | 1,155E-70 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Black vs. non-black hair color | 196 European ancestry black hair individuals, 6,895 European ancestry non-black hair individuals | 2015-07-13 | hair_color | -0,3966 | 0,02289 | 2,648E-65 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Black vs. non-black hair color | 196 European ancestry black hair individuals, 6,895 European ancestry non-black hair individuals | 2015-07-13 | phototype_score_categorical | 0,3864 | 0,01861 | 8,931E-92 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Black vs. non-black hair color | 196 European ancestry black hair individuals, 6,895 European ancestry non-black hair individuals | 2015-07-13 | phototype_score | 8,183 | 0,3375 | 1,267E-122 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Black vs. non-black hair color | 196 European ancestry black hair individuals, 6,895 European ancestry non-black hair individuals | 2015-07-13 | skin_color_phototype_score | 2,672 | 0,1078 | 6,543E-128 |

| | | | | | | | | | | |
|---------|------------|------------|-------|--------------------------------|-----------------------------------------------------------------------------------------------------|------------|-----------------------------------------|--------------|-------------|-------------|
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Black vs. non-black hair color | 196 European ancestry black hair individuals, 6,895 European ancestry non-black hair individuals | 2015-07-13 | skin_color | -0,5465 | 0,02182 | 2,227E-130 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Black vs. non-black hair color | 196 European ancestry black hair individuals, 6,895 European ancestry non-black hair individuals | 2015-07-13 | skin_sensitivity_to_sun_phototype_score | 1,849 | 0,1168 | 4,543E-55 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Black vs. non-black hair color | 196 European ancestry black hair individuals, 6,895 European ancestry non-black hair individuals | 2015-07-13 | skin_sensitivity_to_sun | 0,5847 | 0,03697 | 5,747E-55 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Skin sensitivity to sun | 2,668 European ancestry individuals | 2015-05-12 | hair_color_black | 0,976353725 | 0,070899558 | 2,88544E-42 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Skin sensitivity to sun | 2,668 European ancestry individuals | 2015-05-12 | hair_color_blonde | -1,467673089 | 0,239654451 | 9,1967E-10 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Skin sensitivity to sun | 2,668 European ancestry individuals | 2015-05-12 | hair_color_brown | -0,620670088 | 0,065780757 | 5,60739E-21 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Skin sensitivity to sun | 2,668 European ancestry individuals | 2015-05-12 | hair_color_light | -1,24503965 | 0,20464416 | 1,81068E-09 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Skin sensitivity to sun | 2,668 European ancestry individuals | 2015-05-12 | skin_sensitivity_to_sun_binary_1_5 | -1,624706227 | 0,141812316 | 1,9736E-36 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Skin sensitivity to sun | 2,668 European ancestry individuals | 2015-05-12 | skin_sensitivity_to_sun_binary_12_45 | -1,153158169 | 0,082415038 | 2,11762E-48 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Skin sensitivity to sun | 2,668 European ancestry individuals | 2015-05-12 | eye_color_phototype_score | 0,8276 | 0,09948 | 1,137E-16 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Skin sensitivity to sun | 2,668 European ancestry individuals | 2015-05-12 | eye_color | -0,2339 | 0,03176 | 2,07E-13 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Skin sensitivity to sun | 2,668 European ancestry individuals | 2015-05-12 | freckling | 0,1944 | 0,03509 | 3,198E-08 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Skin sensitivity to sun | 2,668 European ancestry individuals | 2015-05-12 | hair_color_phototype_score | 2,145 | 0,1188 | 1,155E-70 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Skin sensitivity to sun | 2,668 European ancestry individuals | 2015-05-12 | hair_color | -0,3966 | 0,02289 | 2,648E-65 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Skin sensitivity to sun | 2,668 European ancestry individuals | 2015-05-12 | phototype_score_categorical | 0,3864 | 0,01861 | 8,931E-92 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Skin sensitivity to sun | 2,668 European ancestry individuals | 2015-05-12 | phototype_score | 8,183 | 0,3375 | 1,267E-122 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Skin sensitivity to sun | 2,668 European ancestry individuals | 2015-05-12 | skin_color_phototype_score | 2,672 | 0,1078 | 6,543E-128 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Skin sensitivity to sun | 2,668 European ancestry individuals | 2015-05-12 | skin_color | -0,5465 | 0,02182 | 2,227E-130 |

| | | | | | | | | | | |
|---------|------------|------------|-------|-------------------------|------------------------------------------------------------------|------------|-----------------------------------------|--------------|-------------|-------------|
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Skin sensitivity to sun | 2,668 European ancestry individuals | 2015-05-12 | skin_sensitivity_to_sun_phototype_score | 1,849 | 0,1168 | 4,543E-55 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Skin sensitivity to sun | 2,668 European ancestry individuals | 2015-05-12 | skin_sensitivity_to_sun | 0,5847 | 0,03697 | 5,747E-55 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Squamous cell carcinoma | 6,891 European ancestry cases, 54,566 European ancestry controls | 2016-01-29 | hair_color_black | 0,976353725 | 0,070899558 | 2,88544E-42 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Squamous cell carcinoma | 6,891 European ancestry cases, 54,566 European ancestry controls | 2016-01-29 | hair_color_blonde | -1,467673089 | 0,239654451 | 9,1967E-10 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Squamous cell carcinoma | 6,891 European ancestry cases, 54,566 European ancestry controls | 2016-01-29 | hair_color_brown | -0,620670088 | 0,065780757 | 5,60739E-21 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Squamous cell carcinoma | 6,891 European ancestry cases, 54,566 European ancestry controls | 2016-01-29 | hair_color_light | -1,24503965 | 0,20464416 | 1,81068E-09 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Squamous cell carcinoma | 6,891 European ancestry cases, 54,566 European ancestry controls | 2016-01-29 | skin_sensitivity_to_sun_binary_1_5 | -1,624706227 | 0,141812316 | 1,9736E-36 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Squamous cell carcinoma | 6,891 European ancestry cases, 54,566 European ancestry controls | 2016-01-29 | skin_sensitivity_to_sun_binary_12_45 | -1,153158169 | 0,082415038 | 2,11762E-48 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Squamous cell carcinoma | 6,891 European ancestry cases, 54,566 European ancestry controls | 2016-01-29 | eye_color_phototype_score | 0,8276 | 0,09948 | 1,137E-16 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Squamous cell carcinoma | 6,891 European ancestry cases, 54,566 European ancestry controls | 2016-01-29 | eye_color | -0,2339 | 0,03176 | 2,07E-13 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Squamous cell carcinoma | 6,891 European ancestry cases, 54,566 European ancestry controls | 2016-01-29 | freckling | 0,1944 | 0,03509 | 3,198E-08 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Squamous cell carcinoma | 6,891 European ancestry cases, 54,566 European ancestry controls | 2016-01-29 | hair_color_phototype_score | 2,145 | 0,1188 | 1,155E-70 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Squamous cell carcinoma | 6,891 European ancestry cases, 54,566 European ancestry controls | 2016-01-29 | hair_color | -0,3966 | 0,02289 | 2,648E-65 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Squamous cell carcinoma | 6,891 European ancestry cases, 54,566 European ancestry controls | 2016-01-29 | phototype_score_categorical | 0,3864 | 0,01861 | 8,931E-92 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Squamous cell carcinoma | 6,891 European ancestry cases, 54,566 European ancestry controls | 2016-01-29 | phototype_score | 8,183 | 0,3375 | 1,267E-122 |

| | | | | | | | | | | |
|---------|------------|------------|-------|-------------------------|-------------------------------------------------------------------|------------|-----------------------------------------|--------------|-------------|-------------|
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Squamous cell carcinoma | 6,891 European ancestry cases, 54,566 European ancestry controls | 2016-01-29 | skin_color_phototype_score | 2,672 | 0,1078 | 6,543E-128 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Squamous cell carcinoma | 6,891 European ancestry cases, 54,566 European ancestry controls | 2016-01-29 | skin_color | -0,5465 | 0,02182 | 2,227E-130 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Squamous cell carcinoma | 6,891 European ancestry cases, 54,566 European ancestry controls | 2016-01-29 | skin_sensitivity_to_sun_phototype_score | 1,849 | 0,1168 | 4,543E-55 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Squamous cell carcinoma | 6,891 European ancestry cases, 54,566 European ancestry controls | 2016-01-29 | skin_sensitivity_to_sun | 0,5847 | 0,03697 | 5,747E-55 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Melanoma | 4,842 European ancestry cases, 286,565 European ancestry controls | 2017-02-09 | hair_color_black | 0,976353725 | 0,070899558 | 2,88544E-42 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Melanoma | 4,842 European ancestry cases, 286,565 European ancestry controls | 2017-02-09 | hair_color_blonde | -1,467673089 | 0,239654451 | 9,1967E-10 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Melanoma | 4,842 European ancestry cases, 286,565 European ancestry controls | 2017-02-09 | hair_color_brown | -0,620670088 | 0,065780757 | 5,60739E-21 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Melanoma | 4,842 European ancestry cases, 286,565 European ancestry controls | 2017-02-09 | hair_color_light | -1,24503965 | 0,20464416 | 1,81068E-09 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Melanoma | 4,842 European ancestry cases, 286,565 European ancestry controls | 2017-02-09 | skin_sensitivity_to_sun_binary_1_5 | -1,624706227 | 0,141812316 | 1,9736E-36 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Melanoma | 4,842 European ancestry cases, 286,565 European ancestry controls | 2017-02-09 | skin_sensitivity_to_sun_binary_12_45 | -1,153158169 | 0,082415038 | 2,11762E-48 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Melanoma | 4,842 European ancestry cases, 286,565 European ancestry controls | 2017-02-09 | eye_color_phototype_score | 0,8276 | 0,09948 | 1,137E-16 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Melanoma | 4,842 European ancestry cases, 286,565 European ancestry controls | 2017-02-09 | eye_color | -0,2339 | 0,03176 | 2,07E-13 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Melanoma | 4,842 European ancestry cases, 286,565 European ancestry controls | 2017-02-09 | freckling | 0,1944 | 0,03509 | 3,198E-08 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 | Melanoma | 4,842 European ancestry cases, 286,565 European ancestry controls | 2017-02-09 | hair_color_phototype_score | 2,145 | 0,1188 | 1,155E-70 |

| | | | | | | | | | |
|---------|------------|------------|----------------|-------------------------------------------------------------------|------------|-----------------------------------------|--------------|-------------|-------------|
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 Melanoma | 4,842 European ancestry cases, 286,565 European ancestry controls | 2017-02-09 | hair_color | -0,3966 | 0,02289 | 2,648E-65 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 Melanoma | 4,842 European ancestry cases, 286,565 European ancestry controls | 2017-02-09 | phototype_score_categorical | 0,3864 | 0,01861 | 8,931E-92 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 Melanoma | 4,842 European ancestry cases, 286,565 European ancestry controls | 2017-02-09 | phototype_score | 8,183 | 0,3375 | 1,267E-122 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 Melanoma | 4,842 European ancestry cases, 286,565 European ancestry controls | 2017-02-09 | skin_color_phototype_score | 2,672 | 0,1078 | 6,543E-128 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 Melanoma | 4,842 European ancestry cases, 286,565 European ancestry controls | 2017-02-09 | skin_color | -0,5465 | 0,02182 | 2,227E-130 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 Melanoma | 4,842 European ancestry cases, 286,565 European ancestry controls | 2017-02-09 | skin_sensitivity_to_sun_phototype_score | 1,849 | 0,1168 | 4,543E-55 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 Melanoma | 4,842 European ancestry cases, 286,565 European ancestry controls | 2017-02-09 | skin_sensitivity_to_sun | 0,5847 | 0,03697 | 5,747E-55 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 Monobrow | 69,284 European ancestry individuals | 2016-05-16 | hair_color_black | 0,976353725 | 0,070899558 | 2,88544E-42 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 Monobrow | 69,284 European ancestry individuals | 2016-05-16 | hair_color_blonde | -1,467673089 | 0,239654451 | 9,1967E-10 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 Monobrow | 69,284 European ancestry individuals | 2016-05-16 | hair_color_brown | -0,620670088 | 0,065780757 | 5,60739E-21 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 Monobrow | 69,284 European ancestry individuals | 2016-05-16 | hair_color_light | -1,24503965 | 0,20464416 | 1,81068E-09 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 Monobrow | 69,284 European ancestry individuals | 2016-05-16 | skin_sensitivity_to_sun_binary_1_5 | -1,624706227 | 0,141812316 | 1,9736E-36 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 Monobrow | 69,284 European ancestry individuals | 2016-05-16 | skin_sensitivity_to_sun_binary_12_45 | -1,153158169 | 0,082415038 | 2,11762E-48 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 Monobrow | 69,284 European ancestry individuals | 2016-05-16 | eye_color_phototype_score | 0,8276 | 0,09948 | 1,137E-16 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 Monobrow | 69,284 European ancestry individuals | 2016-05-16 | eye_color | -0,2339 | 0,03176 | 2,07E-13 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 Monobrow | 69,284 European ancestry individuals | 2016-05-16 | freckling | 0,1944 | 0,03509 | 3,198E-08 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 Monobrow | 69,284 European ancestry individuals | 2016-05-16 | hair_color_phototype_score | 2,145 | 0,1188 | 1,155E-70 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 Monobrow | 69,284 European ancestry individuals | 2016-05-16 | hair_color | -0,3966 | 0,02289 | 2,648E-65 |

| | | | | | | | | | |
|---------|------------|------------|------------------------------------------------|--------------------------------------|------------|-----------------------------------------|--------------|-------------|-------------|
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 Monobrow | 69,284 European ancestry individuals | 2016-05-16 | phototype_score_categorical | 0,3864 | 0,01861 | 8,931E-92 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 Monobrow | 69,284 European ancestry individuals | 2016-05-16 | phototype_score | 8,183 | 0,3375 | 1,267E-122 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 Monobrow | 69,284 European ancestry individuals | 2016-05-16 | skin_color_phototype_score | 2,672 | 0,1078 | 6,543E-128 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 Monobrow | 69,284 European ancestry individuals | 2016-05-16 | skin_color | -0,5465 | 0,02182 | 2,227E-130 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 Monobrow | 69,284 European ancestry individuals | 2016-05-16 | skin_sensitivity_to_sun_phototype_score | 1,849 | 0,1168 | 4,543E-55 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 Monobrow | 69,284 European ancestry individuals | 2016-05-16 | skin_sensitivity_to_sun | 0,5847 | 0,03697 | 5,747E-55 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 Skin pigmentation | 285 Puerto Rican individuals | 2017-03-16 | hair_color_black | 0,976353725 | 0,070899558 | 2,88544E-42 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 Skin pigmentation | 285 Puerto Rican individuals | 2017-03-16 | hair_color_blonde | -1,467673089 | 0,239654451 | 9,1967E-10 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 Skin pigmentation | 285 Puerto Rican individuals | 2017-03-16 | hair_color_brown | -0,620670088 | 0,065780757 | 5,60739E-21 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 Skin pigmentation | 285 Puerto Rican individuals | 2017-03-16 | hair_color_light | -1,24503965 | 0,20464416 | 1,81068E-09 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 Skin pigmentation | 285 Puerto Rican individuals | 2017-03-16 | skin_sensitivity_to_sun_binary_1_5 | -1,624706227 | 0,141812316 | 1,9736E-36 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 Skin pigmentation | 285 Puerto Rican individuals | 2017-03-16 | skin_sensitivity_to_sun_binary_12_45 | -1,153158169 | 0,082415038 | 2,11762E-48 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 Skin pigmentation | 285 Puerto Rican individuals | 2017-03-16 | eye_color_phototype_score | 0,8276 | 0,09948 | 1,137E-16 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 Skin pigmentation | 285 Puerto Rican individuals | 2017-03-16 | eye_color | -0,2339 | 0,03176 | 2,07E-13 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 Skin pigmentation | 285 Puerto Rican individuals | 2017-03-16 | freckling | 0,1944 | 0,03509 | 3,198E-08 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 Skin pigmentation | 285 Puerto Rican individuals | 2017-03-16 | hair_color_phototype_score | 2,145 | 0,1188 | 1,155E-70 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 Skin pigmentation | 285 Puerto Rican individuals | 2017-03-16 | hair_color | -0,3966 | 0,02289 | 2,648E-65 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 Skin pigmentation | 285 Puerto Rican individuals | 2017-03-16 | phototype_score_categorical | 0,3864 | 0,01861 | 8,931E-92 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 Skin pigmentation | 285 Puerto Rican individuals | 2017-03-16 | phototype_score | 8,183 | 0,3375 | 1,267E-122 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 Skin pigmentation | 285 Puerto Rican individuals | 2017-03-16 | skin_color_phototype_score | 2,672 | 0,1078 | 6,543E-128 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 Skin pigmentation | 285 Puerto Rican individuals | 2017-03-16 | skin_color | -0,5465 | 0,02182 | 2,227E-130 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 Skin pigmentation | 285 Puerto Rican individuals | 2017-03-16 | skin_sensitivity_to_sun_phototype_score | 1,849 | 0,1168 | 4,543E-55 |
| SLC45A2 | rs16891982 | 5_33951588 | 0,985 Skin pigmentation | 285 Puerto Rican individuals | 2017-03-16 | skin_sensitivity_to_sun | 0,5847 | 0,03697 | 5,747E-55 |
| SLC45A2 | rs185146 | 5_33952001 | 0,998 Skin aging (microtopography measurement) | 5,087 individuals | 2017-05-11 | hair_color_black | 0,960892931 | 0,072560613 | 4,13838E-39 |

| | | | | | | | | | | |
|---------|----------|------------|-------|------------------------------------------------|-------------------|------------|-----------------------------------------|--------------|-------------|-------------|
| SLC45A2 | rs185146 | 5_33952001 | 0,998 | Skin aging (microtopography measurement) | 5,087 individuals | 2017-05-11 | hair_color_blonde | -1,633273539 | 0,270250358 | 7,5116E-10 |
| SLC45A2 | rs185146 | 5_33952001 | 0,998 | Skin aging (microtopography measurement) | 5,087 individuals | 2017-05-11 | hair_color_brown | -0,603326814 | 0,067602542 | 6,10301E-19 |
| SLC45A2 | rs185146 | 5_33952001 | 0,998 | Skin aging (microtopography measurement) | 5,087 individuals | 2017-05-11 | hair_color_light | -1,339287563 | 0,222565539 | 1,98378E-09 |
| SLC45A2 | rs185146 | 5_33952001 | 0,998 | Skin aging (microtopography measurement) | 5,087 individuals | 2017-05-11 | skin_sensitivity_to_sun_binary_1_5 | -1,615720914 | 0,147144741 | 1,31409E-33 |
| SLC45A2 | rs185146 | 5_33952001 | 0,998 | Skin aging (microtopography measurement) | 5,087 individuals | 2017-05-11 | skin_sensitivity_to_sun_binary_12_45 | -1,130159173 | 0,084893087 | 7,38759E-44 |
| SLC45A2 | rs185146 | 5_33952001 | 0,998 | Skin aging (microtopography measurement) | 5,087 individuals | 2017-05-11 | eye_color_phototype_score | 0,7589 | 0,1027 | 1,71E-13 |
| SLC45A2 | rs185146 | 5_33952001 | 0,998 | Skin aging (microtopography measurement) | 5,087 individuals | 2017-05-11 | eye_color | -0,2152 | 0,03275 | 5,548E-11 |
| SLC45A2 | rs185146 | 5_33952001 | 0,998 | Skin aging (microtopography measurement) | 5,087 individuals | 2017-05-11 | hair_color_phototype_score | 2,126 | 0,1227 | 2,286E-65 |
| SLC45A2 | rs185146 | 5_33952001 | 0,998 | Skin aging (microtopography measurement) | 5,087 individuals | 2017-05-11 | hair_color | -0,3941 | 0,02362 | 7,345E-61 |
| SLC45A2 | rs185146 | 5_33952001 | 0,998 | Skin aging (microtopography measurement) | 5,087 individuals | 2017-05-11 | phototype_score_categorical | 0,3763 | 0,01924 | 4,657E-82 |
| SLC45A2 | rs185146 | 5_33952001 | 0,998 | Skin aging (microtopography measurement) | 5,087 individuals | 2017-05-11 | phototype_score | 7,969 | 0,3501 | 4,359E-109 |
| SLC45A2 | rs185146 | 5_33952001 | 0,998 | Skin aging (microtopography measurement) | 5,087 individuals | 2017-05-11 | skin_color_phototype_score | 2,599 | 0,1121 | 4,818E-113 |
| SLC45A2 | rs185146 | 5_33952001 | 0,998 | Skin aging (microtopography measurement) | 5,087 individuals | 2017-05-11 | skin_color | -0,5321 | 0,02268 | 1,577E-115 |
| SLC45A2 | rs185146 | 5_33952001 | 0,998 | Skin aging (microtopography measurement) | 5,087 individuals | 2017-05-11 | skin_sensitivity_to_sun_phototype_score | 1,802 | 0,1206 | 2,16E-49 |

| SNP ID | Allele 1 | Allele 2 | Phenotype | Sample Size | Date | Variable | Effect Size | SE | P-value |
|---------|----------|------------|------------------------------------------|-----------------------------------------------------------------|------------|-----------------------------------------|--------------|-------------|-------------|
| SLC45A2 | rs185146 | 5_33952001 | Skin aging (microtopography measurement) | 5,087 individuals | 2017-05-11 | skin_sensitivity_to_sun | 0,5711 | 0,03813 | 1,226E-49 |
| SLC45A2 | rs35390 | 5_33955221 | 1 Melanoma | 2,804 European ancestry cases, 7,618 European ancestry controls | 2011-10-09 | hair_color_black | 0,927155143 | 0,078888082 | 5,49112E-31 |
| SLC45A2 | rs35390 | 5_33955221 | 1 Melanoma | 2,804 European ancestry cases, 7,618 European ancestry controls | 2011-10-09 | hair_color_brown | -0,601688549 | 0,074106314 | 6,00303E-16 |
| SLC45A2 | rs35390 | 5_33955221 | 1 Melanoma | 2,804 European ancestry cases, 7,618 European ancestry controls | 2011-10-09 | skin_sensitivity_to_sun_binary_1_5 | -1,545333889 | 0,155187221 | 1,61666E-27 |
| SLC45A2 | rs35390 | 5_33955221 | 1 Melanoma | 2,804 European ancestry cases, 7,618 European ancestry controls | 2011-10-09 | skin_sensitivity_to_sun_binary_12_45 | -1,076858596 | 0,093043968 | 1,7317E-33 |
| SLC45A2 | rs35390 | 5_33955221 | 1 Melanoma | 2,804 European ancestry cases, 7,618 European ancestry controls | 2011-10-09 | eye_color_phototype_score | 0,8013 | 0,1133 | 1,706E-12 |
| SLC45A2 | rs35390 | 5_33955221 | 1 Melanoma | 2,804 European ancestry cases, 7,618 European ancestry controls | 2011-10-09 | eye_color | -0,2307 | 0,03612 | 1,839E-10 |
| SLC45A2 | rs35390 | 5_33955221 | 1 Melanoma | 2,804 European ancestry cases, 7,618 European ancestry controls | 2011-10-09 | hair_color_phototype_score | 2,074 | 0,1363 | 3,461E-51 |
| SLC45A2 | rs35390 | 5_33955221 | 1 Melanoma | 2,804 European ancestry cases, 7,618 European ancestry controls | 2011-10-09 | hair_color | -0,3829 | 0,02622 | 2,693E-47 |
| SLC45A2 | rs35390 | 5_33955221 | 1 Melanoma | 2,804 European ancestry cases, 7,618 European ancestry controls | 2011-10-09 | phototype_score_categorical | 0,3594 | 0,02146 | 2,811E-61 |
| SLC45A2 | rs35390 | 5_33955221 | 1 Melanoma | 2,804 European ancestry cases, 7,618 European ancestry controls | 2011-10-09 | phototype_score | 7,673 | 0,3916 | 2,225E-82 |
| SLC45A2 | rs35390 | 5_33955221 | 1 Melanoma | 2,804 European ancestry cases, 7,618 European ancestry controls | 2011-10-09 | skin_color_phototype_score | 2,363 | 0,1257 | 3,582E-76 |
| SLC45A2 | rs35390 | 5_33955221 | 1 Melanoma | 2,804 European ancestry cases, 7,618 European ancestry controls | 2011-10-09 | skin_color | -0,4841 | 0,02545 | 6,517E-78 |
| SLC45A2 | rs35390 | 5_33955221 | 1 Melanoma | 2,804 European ancestry cases, 7,618 European ancestry controls | 2011-10-09 | skin_sensitivity_to_sun_phototype_score | 1,738 | 0,1337 | 5,278E-38 |

| | | | | | | | | | |
|---------|---------|------------|------------------------------|-----------------------------------------------------------------|------------|-----------------------------------------|--------------|-------------|-------------|
| SLC45A2 | rs35390 | 5_33955221 | 1 Melanoma | 2,804 European ancestry cases, 7,618 European ancestry controls | 2011-10-09 | skin_sensitivity_to_sun | 0,5513 | 0,04227 | 3,036E-38 |
| SLC45A2 | rs35391 | 5_33955568 | 1 Tanning | 2,287 European ancestry female individuals | 2009-04-02 | hair_color_black | 0,927155143 | 0,078888082 | 5,49112E-31 |
| SLC45A2 | rs35391 | 5_33955568 | 1 Tanning | 2,287 European ancestry female individuals | 2009-04-02 | hair_color_brown | -0,601688549 | 0,074106314 | 6,00303E-16 |
| SLC45A2 | rs35391 | 5_33955568 | 1 Tanning | 2,287 European ancestry female individuals | 2009-04-02 | skin_sensitivity_to_sun_binary_1_5 | -1,545333889 | 0,155187221 | 1,61666E-27 |
| SLC45A2 | rs35391 | 5_33955568 | 1 Tanning | 2,287 European ancestry female individuals | 2009-04-02 | skin_sensitivity_to_sun_binary_12_45 | -1,076858596 | 0,093043968 | 1,7317E-33 |
| SLC45A2 | rs35391 | 5_33955568 | 1 Tanning | 2,287 European ancestry female individuals | 2009-04-02 | eye_color_phototype_score | 0,8013 | 0,1133 | 1,706E-12 |
| SLC45A2 | rs35391 | 5_33955568 | 1 Tanning | 2,287 European ancestry female individuals | 2009-04-02 | eye_color | -0,2307 | 0,03612 | 1,839E-10 |
| SLC45A2 | rs35391 | 5_33955568 | 1 Tanning | 2,287 European ancestry female individuals | 2009-04-02 | hair_color_phototype_score | 2,074 | 0,1363 | 3,461E-51 |
| SLC45A2 | rs35391 | 5_33955568 | 1 Tanning | 2,287 European ancestry female individuals | 2009-04-02 | hair_color | -0,3829 | 0,02622 | 2,693E-47 |
| SLC45A2 | rs35391 | 5_33955568 | 1 Tanning | 2,287 European ancestry female individuals | 2009-04-02 | phototype_score_categorical | 0,3594 | 0,02146 | 2,811E-61 |
| SLC45A2 | rs35391 | 5_33955568 | 1 Tanning | 2,287 European ancestry female individuals | 2009-04-02 | phototype_score | 7,673 | 0,3916 | 2,225E-82 |
| SLC45A2 | rs35391 | 5_33955568 | 1 Tanning | 2,287 European ancestry female individuals | 2009-04-02 | skin_color_phototype_score | 2,363 | 0,1257 | 3,582E-76 |
| SLC45A2 | rs35391 | 5_33955568 | 1 Tanning | 2,287 European ancestry female individuals | 2009-04-02 | skin_color | -0,4841 | 0,02545 | 6,517E-78 |
| SLC45A2 | rs35391 | 5_33955568 | 1 Tanning | 2,287 European ancestry female individuals | 2009-04-02 | skin_sensitivity_to_sun_phototype_score | 1,738 | 0,1337 | 5,278E-38 |
| SLC45A2 | rs35391 | 5_33955568 | 1 Tanning | 2,287 European ancestry female individuals | 2009-04-02 | skin_sensitivity_to_sun | 0,5513 | 0,04227 | 3,036E-38 |
| SLC45A2 | rs28777 | 5_33958854 | 1 Black vs. blond hair color | 2,287 European ancestry female individuals | 2008-05-16 | hair_color_black | 0,96222259 | 0,072400704 | 2,25913E-39 |
| SLC45A2 | rs28777 | 5_33958854 | 1 Black vs. blond hair color | 2,287 European ancestry female individuals | 2008-05-16 | hair_color_blonde | -1,585807224 | 0,263266707 | 1,00718E-09 |
| SLC45A2 | rs28777 | 5_33958854 | 1 Black vs. blond hair color | 2,287 European ancestry female individuals | 2008-05-16 | hair_color_brown | -0,60623675 | 0,067423214 | 3,38755E-19 |
| SLC45A2 | rs28777 | 5_33958854 | 1 Black vs. blond hair color | 2,287 European ancestry female individuals | 2008-05-16 | hair_color_light | -1,309799365 | 0,218742225 | 2,52987E-09 |
| SLC45A2 | rs28777 | 5_33958854 | 1 Black vs. blond hair color | 2,287 European ancestry female individuals | 2008-05-16 | skin_sensitivity_to_sun_binary_1_5 | -1,596355654 | 0,145969937 | 3,43245E-33 |
| SLC45A2 | rs28777 | 5_33958854 | 1 Black vs. blond hair color | 2,287 European ancestry female individuals | 2008-05-16 | skin_sensitivity_to_sun_binary_12_45 | -1,12027615 | 0,084423673 | 1,46618E-43 |

| | | | | | | | | | | |
|---------|---------|------------|---|----------------------------|--------------------------------------------|------------|-----------------------------------------|--------------|-------------|-------------|
| SLC45A2 | rs28777 | 5_33958854 | 1 | Black vs. blond hair color | 2,287 European ancestry female individuals | 2008-05-16 | eye_color_phototype_score | 0,7604 | 0,1024 | 1,285E-13 |
| SLC45A2 | rs28777 | 5_33958854 | 1 | Black vs. blond hair color | 2,287 European ancestry female individuals | 2008-05-16 | eye_color | -0,2159 | 0,03265 | 4,173E-11 |
| SLC45A2 | rs28777 | 5_33958854 | 1 | Black vs. blond hair color | 2,287 European ancestry female individuals | 2008-05-16 | hair_color_phototype_score | 2,121 | 0,1223 | 1,996E-65 |
| SLC45A2 | rs28777 | 5_33958854 | 1 | Black vs. blond hair color | 2,287 European ancestry female individuals | 2008-05-16 | hair_color | -0,3926 | 0,02355 | 9,895E-61 |
| SLC45A2 | rs28777 | 5_33958854 | 1 | Black vs. blond hair color | 2,287 European ancestry female individuals | 2008-05-16 | phototype_score_categorical | 0,3741 | 0,01921 | 1,93E-81 |
| SLC45A2 | rs28777 | 5_33958854 | 1 | Black vs. blond hair color | 2,287 European ancestry female individuals | 2008-05-16 | phototype_score | 7,946 | 0,3494 | 5,965E-109 |
| SLC45A2 | rs28777 | 5_33958854 | 1 | Black vs. blond hair color | 2,287 European ancestry female individuals | 2008-05-16 | skin_color_phototype_score | 2,598 | 0,1117 | 1,542E-113 |
| SLC45A2 | rs28777 | 5_33958854 | 1 | Black vs. blond hair color | 2,287 European ancestry female individuals | 2008-05-16 | skin_color | -0,5317 | 0,02261 | 5,517E-116 |
| SLC45A2 | rs28777 | 5_33958854 | 1 | Black vs. blond hair color | 2,287 European ancestry female individuals | 2008-05-16 | skin_sensitivity_to_sun_phototype_score | 1,783 | 0,1203 | 1,088E-48 |
| SLC45A2 | rs28777 | 5_33958854 | 1 | Black vs. blond hair color | 2,287 European ancestry female individuals | 2008-05-16 | skin_sensitivity_to_sun | 0,5664 | 0,03803 | 4,125E-49 |
| SLC45A2 | rs28777 | 5_33958854 | 1 | Black vs. red hair color | 2,287 European ancestry female individuals | 2008-05-16 | hair_color_black | 0,96222259 | 0,072400704 | 2,25913E-39 |
| SLC45A2 | rs28777 | 5_33958854 | 1 | Black vs. red hair color | 2,287 European ancestry female individuals | 2008-05-16 | hair_color_blond | -1,585807224 | 0,263266707 | 1,00718E-09 |
| SLC45A2 | rs28777 | 5_33958854 | 1 | Black vs. red hair color | 2,287 European ancestry female individuals | 2008-05-16 | hair_color_brown | -0,60623675 | 0,067423214 | 3,38755E-19 |
| SLC45A2 | rs28777 | 5_33958854 | 1 | Black vs. red hair color | 2,287 European ancestry female individuals | 2008-05-16 | hair_color_light | -1,309799365 | 0,218742225 | 2,52987E-09 |
| SLC45A2 | rs28777 | 5_33958854 | 1 | Black vs. red hair color | 2,287 European ancestry female individuals | 2008-05-16 | skin_sensitivity_to_sun_binary_1_5 | -1,596355654 | 0,145969937 | 3,43245E-33 |
| SLC45A2 | rs28777 | 5_33958854 | 1 | Black vs. red hair color | 2,287 European ancestry female individuals | 2008-05-16 | skin_sensitivity_to_sun_binary_12_45 | -1,12027615 | 0,084423673 | 1,46618E-43 |
| SLC45A2 | rs28777 | 5_33958854 | 1 | Black vs. red hair color | 2,287 European ancestry female individuals | 2008-05-16 | eye_color_phototype_score | 0,7604 | 0,1024 | 1,285E-13 |
| SLC45A2 | rs28777 | 5_33958854 | 1 | Black vs. red hair color | 2,287 European ancestry female individuals | 2008-05-16 | eye_color | -0,2159 | 0,03265 | 4,173E-11 |
| SLC45A2 | rs28777 | 5_33958854 | 1 | Black vs. red hair color | 2,287 European ancestry female individuals | 2008-05-16 | hair_color_phototype_score | 2,121 | 0,1223 | 1,996E-65 |
| SLC45A2 | rs28777 | 5_33958854 | 1 | Black vs. red hair color | 2,287 European ancestry female individuals | 2008-05-16 | hair_color | -0,3926 | 0,02355 | 9,895E-61 |
| SLC45A2 | rs28777 | 5_33958854 | 1 | Black vs. red hair color | 2,287 European ancestry female individuals | 2008-05-16 | phototype_score_categorical | 0,3741 | 0,01921 | 1,93E-81 |

| | | | | | | | | | | |
|---------|----------|------------|-------|--------------------------|--------------------------------------------|------------|-----------------------------------------|--------------|-------------|-------------|
| SLC45A2 | rs28777 | 5_33958854 | 1 | Black vs. red hair color | 2,287 European ancestry female individuals | 2008-05-16 | phototype_score | 7,946 | 0,3494 | 5,965E-109 |
| SLC45A2 | rs28777 | 5_33958854 | 1 | Black vs. red hair color | 2,287 European ancestry female individuals | 2008-05-16 | skin_color_phototype_score | 2,598 | 0,1117 | 1,542E-113 |
| SLC45A2 | rs28777 | 5_33958854 | 1 | Black vs. red hair color | 2,287 European ancestry female individuals | 2008-05-16 | skin_color | -0,5317 | 0,02261 | 5,517E-116 |
| SLC45A2 | rs28777 | 5_33958854 | 1 | Black vs. red hair color | 2,287 European ancestry female individuals | 2008-05-16 | skin_sensitivity_to_sun_phototype_score | 1,783 | 0,1203 | 1,088E-48 |
| SLC45A2 | rs28777 | 5_33958854 | 1 | Black vs. red hair color | 2,287 European ancestry female individuals | 2008-05-16 | skin_sensitivity_to_sun | 0,5664 | 0,03803 | 4,125E-49 |
| SLC45A2 | rs183671 | 5_33964105 | 0,975 | Skin colour saturation | 5,857 European ancestry individuals | 2015-05-12 | hair_color_black | 0,884459761 | 0,073663097 | 2,50402E-32 |
| SLC45A2 | rs183671 | 5_33964105 | 0,975 | Skin colour saturation | 5,857 European ancestry individuals | 2015-05-12 | hair_color_blond | -1,539939605 | 0,265237129 | 4,70596E-09 |
| SLC45A2 | rs183671 | 5_33964105 | 0,975 | Skin colour saturation | 5,857 European ancestry individuals | 2015-05-12 | hair_color_brown | -0,544414123 | 0,068935131 | 3,32831E-15 |
| SLC45A2 | rs183671 | 5_33964105 | 0,975 | Skin colour saturation | 5,857 European ancestry individuals | 2015-05-12 | hair_color_light | -1,263667816 | 0,22047281 | 1,26948E-08 |
| SLC45A2 | rs183671 | 5_33964105 | 0,975 | Skin colour saturation | 5,857 European ancestry individuals | 2015-05-12 | skin_sensitivity_to_sun_binary_1_5 | -1,536400007 | 0,146222621 | 1,91111E-30 |
| SLC45A2 | rs183671 | 5_33964105 | 0,975 | Skin colour saturation | 5,857 European ancestry individuals | 2015-05-12 | skin_sensitivity_to_sun_binary_12_45 | -1,108050244 | 0,086234029 | 5,07076E-41 |
| SLC45A2 | rs183671 | 5_33964105 | 0,975 | Skin colour saturation | 5,857 European ancestry individuals | 2015-05-12 | eye_color_phototype_score | 0,7218 | 0,1047 | 6,028E-12 |
| SLC45A2 | rs183671 | 5_33964105 | 0,975 | Skin colour saturation | 5,857 European ancestry individuals | 2015-05-12 | eye_color | -0,2038 | 0,0334 | 1,123E-09 |
| SLC45A2 | rs183671 | 5_33964105 | 0,975 | Skin colour saturation | 5,857 European ancestry individuals | 2015-05-12 | freckling | 0,2131 | 0,03688 | 8,052E-09 |
| SLC45A2 | rs183671 | 5_33964105 | 0,975 | Skin colour saturation | 5,857 European ancestry individuals | 2015-05-12 | hair_color_phototype_score | 1,99 | 0,1251 | 1,389E-55 |
| SLC45A2 | rs183671 | 5_33964105 | 0,975 | Skin colour saturation | 5,857 European ancestry individuals | 2015-05-12 | hair_color | -0,3724 | 0,02415 | 2,09E-52 |
| SLC45A2 | rs183671 | 5_33964105 | 0,975 | Skin colour saturation | 5,857 European ancestry individuals | 2015-05-12 | phototype_score_categorical | 0,3603 | 0,01966 | 1,339E-72 |
| SLC45A2 | rs183671 | 5_33964105 | 0,975 | Skin colour saturation | 5,857 European ancestry individuals | 2015-05-12 | phototype_score | 7,643 | 0,358 | 1,008E-96 |
| SLC45A2 | rs183671 | 5_33964105 | 0,975 | Skin colour saturation | 5,857 European ancestry individuals | 2015-05-12 | skin_color_phototype_score | 2,459 | 0,1146 | 1,194E-97 |
| SLC45A2 | rs183671 | 5_33964105 | 0,975 | Skin colour saturation | 5,857 European ancestry individuals | 2015-05-12 | skin_color | -0,5021 | 0,02318 | 2,027E-99 |
| SLC45A2 | rs183671 | 5_33964105 | 0,975 | Skin colour saturation | 5,857 European ancestry individuals | 2015-05-12 | skin_sensitivity_to_sun_phototype_score | 1,784 | 0,1233 | 1,539E-46 |

| | | | | | | | | | | |
|---------|----------|------------|-------|-------------------------|-------------------------------------|------------|-----------------------------------------|--------------|-------------|-------------|
| SLC45A2 | rs183671 | 5_33964105 | 0,975 | Skin colour saturation | 5,857 European ancestry individuals | 2015-05-12 | skin_sensitivity_to_sun | 0,5619 | 0,03903 | 4,716E-46 |
| SLC45A2 | rs183671 | 5_33964105 | 0,975 | Hair color | 6,357 Latin American individuals | 2016-03-01 | hair_color_black | 0,884459761 | 0,073663097 | 2,50402E-32 |
| SLC45A2 | rs183671 | 5_33964105 | 0,975 | Hair color | 6,357 Latin American individuals | 2016-03-01 | hair_color_blonde | -1,539939605 | 0,265237129 | 4,70596E-09 |
| SLC45A2 | rs183671 | 5_33964105 | 0,975 | Hair color | 6,357 Latin American individuals | 2016-03-01 | hair_color_brown | -0,544414123 | 0,068935131 | 3,32831E-15 |
| SLC45A2 | rs183671 | 5_33964105 | 0,975 | Hair color | 6,357 Latin American individuals | 2016-03-01 | hair_color_light | -1,263667816 | 0,22047281 | 1,26948E-08 |
| SLC45A2 | rs183671 | 5_33964105 | 0,975 | Hair color | 6,357 Latin American individuals | 2016-03-01 | skin_sensitivity_to_sun_binary_1_5 | -1,536400007 | 0,146222621 | 1,91111E-30 |
| SLC45A2 | rs183671 | 5_33964105 | 0,975 | Hair color | 6,357 Latin American individuals | 2016-03-01 | skin_sensitivity_to_sun_binary_12_45 | -1,108050244 | 0,086234029 | 5,07076E-41 |
| SLC45A2 | rs183671 | 5_33964105 | 0,975 | Hair color | 6,357 Latin American individuals | 2016-03-01 | eye_color_phototype_score | 0,7218 | 0,1047 | 6,028E-12 |
| SLC45A2 | rs183671 | 5_33964105 | 0,975 | Hair color | 6,357 Latin American individuals | 2016-03-01 | eye_color | -0,2038 | 0,0334 | 1,123E-09 |
| SLC45A2 | rs183671 | 5_33964105 | 0,975 | Hair color | 6,357 Latin American individuals | 2016-03-01 | freckling | 0,2131 | 0,03688 | 8,052E-09 |
| SLC45A2 | rs183671 | 5_33964105 | 0,975 | Hair color | 6,357 Latin American individuals | 2016-03-01 | hair_color_phototype_score | 1,99 | 0,1251 | 1,389E-55 |
| SLC45A2 | rs183671 | 5_33964105 | 0,975 | Hair color | 6,357 Latin American individuals | 2016-03-01 | hair_color | -0,3724 | 0,02415 | 2,09E-52 |
| SLC45A2 | rs183671 | 5_33964105 | 0,975 | Hair color | 6,357 Latin American individuals | 2016-03-01 | phototype_score_categorical | 0,3603 | 0,01966 | 1,339E-72 |
| SLC45A2 | rs183671 | 5_33964105 | 0,975 | Hair color | 6,357 Latin American individuals | 2016-03-01 | phototype_score | 7,643 | 0,358 | 1,008E-96 |
| SLC45A2 | rs183671 | 5_33964105 | 0,975 | Hair color | 6,357 Latin American individuals | 2016-03-01 | skin_color_phototype_score | 2,459 | 0,1146 | 1,194E-97 |
| SLC45A2 | rs183671 | 5_33964105 | 0,975 | Hair color | 6,357 Latin American individuals | 2016-03-01 | skin_color | -0,5021 | 0,02318 | 2,027E-99 |
| SLC45A2 | rs183671 | 5_33964105 | 0,975 | Hair color | 6,357 Latin American individuals | 2016-03-01 | skin_sensitivity_to_sun_phototype_score | 1,784 | 0,1233 | 1,539E-46 |
| SLC45A2 | rs183671 | 5_33964105 | 0,975 | Hair color | 6,357 Latin American individuals | 2016-03-01 | skin_sensitivity_to_sun | 0,5619 | 0,03903 | 4,716E-46 |
| SLC45A2 | rs35412 | 5_33967040 | 0,949 | Perceived skin darkness | 9,316 European ancestry individuals | 2015-05-12 | hair_color_black | 0,803310824 | 0,0831335 | 1,91715E-21 |
| SLC45A2 | rs35412 | 5_33967040 | 0,949 | Perceived skin darkness | 9,316 European ancestry individuals | 2015-05-12 | hair_color_brown | -0,484246368 | 0,078556778 | 6,71823E-10 |
| SLC45A2 | rs35412 | 5_33967040 | 0,949 | Perceived skin darkness | 9,316 European ancestry individuals | 2015-05-12 | skin_sensitivity_to_sun_binary_1_5 | -1,378737008 | 0,158827807 | 1,3486E-20 |

| | | | | | | | | | | |
|---------------|------------|------------|-------|----------------------------|-------------------------------------------------------------------|------------|-----------------------------------------|--------------|-------------|-------------|
| SLC45A2 | rs35412 | 5_33967040 | 0,949 | Perceived skin darkness | 9,316 European ancestry individuals | 2015-05-12 | skin_sensitivity_to_sun_binary_12_45 | -1,022833545 | 0,096982104 | 5,99889E-28 |
| SLC45A2 | rs35412 | 5_33967040 | 0,949 | Perceived skin darkness | 9,316 European ancestry individuals | 2015-05-12 | eye_color_phototype_score | 0,6902 | 0,1196 | 8,381E-09 |
| SLC45A2 | rs35412 | 5_33967040 | 0,949 | Perceived skin darkness | 9,316 European ancestry individuals | 2015-05-12 | hair_color_phototype_score | 1,844 | 0,1438 | 4,675E-37 |
| SLC45A2 | rs35412 | 5_33967040 | 0,949 | Perceived skin darkness | 9,316 European ancestry individuals | 2015-05-12 | hair_color | -0,3491 | 0,02775 | 9,941E-36 |
| SLC45A2 | rs35412 | 5_33967040 | 0,949 | Perceived skin darkness | 9,316 European ancestry individuals | 2015-05-12 | phototype_score_categorical | 0,332 | 0,02268 | 1,701E-47 |
| SLC45A2 | rs35412 | 5_33967040 | 0,949 | Perceived skin darkness | 9,316 European ancestry individuals | 2015-05-12 | phototype_score | 7,033 | 0,4132 | 3,923E-63 |
| SLC45A2 | rs35412 | 5_33967040 | 0,949 | Perceived skin darkness | 9,316 European ancestry individuals | 2015-05-12 | skin_color_phototype_score | 2,237 | 0,1327 | 5,188E-62 |
| SLC45A2 | rs35412 | 5_33967040 | 0,949 | Perceived skin darkness | 9,316 European ancestry individuals | 2015-05-12 | skin_color | -0,4559 | 0,02686 | 8,601E-63 |
| SLC45A2 | rs35412 | 5_33967040 | 0,949 | Perceived skin darkness | 9,316 European ancestry individuals | 2015-05-12 | skin_sensitivity_to_sun_phototype_score | 1,646 | 0,1415 | 6,874E-31 |
| SLC45A2 | rs35412 | 5_33967040 | 0,949 | Perceived skin darkness | 9,316 European ancestry individuals | 2015-05-12 | skin_sensitivity_to_sun | 0,5218 | 0,04482 | 6,448E-31 |
| DUSP22 - IRF4 | rs7773324 | 6_382559 | 0,986 | Crohn's disease | 5,956 European ancestry cases, 14,927 European ancestry controls | 2015-07-20 | freckling_phototype_score | 0,2817 | 0,0455 | 6,496E-10 |
| DUSP22 - IRF4 | rs7773324 | 6_382559 | 0,986 | Crohn's disease | 5,956 European ancestry cases, 14,927 European ancestry controls | 2015-07-20 | freckling | 0,1361 | 0,02408 | 1,697E-08 |
| DUSP22 - IRF4 | rs7773324 | 6_382559 | 0,986 | Inflammatory bowel disease | 12,882 European ancestry cases, 21,770 European ancestry controls | 2015-07-20 | freckling_phototype_score | 0,2817 | 0,0455 | 6,496E-10 |
| DUSP22 - IRF4 | rs7773324 | 6_382559 | 0,986 | Inflammatory bowel disease | 12,882 European ancestry cases, 21,770 European ancestry controls | 2015-07-20 | freckling | 0,1361 | 0,02408 | 1,697E-08 |
| IRF4 | rs12203592 | 6_396321 | 1 | Black vs. blond hair color | 2,287 European ancestry female individuals | 2008-05-16 | eye_color_dark | -0,468244241 | 0,064522426 | 4,58449E-13 |
| IRF4 | rs12203592 | 6_396321 | 1 | Black vs. blond hair color | 2,287 European ancestry female individuals | 2008-05-16 | freckling_binary | 0,73500735 | 0,11281035 | 1,21815E-10 |
| IRF4 | rs12203592 | 6_396321 | 1 | Black vs. blond hair color | 2,287 European ancestry female individuals | 2008-05-16 | hair_color_black | 1,048929655 | 0,071533676 | 8,19529E-48 |
| IRF4 | rs12203592 | 6_396321 | 1 | Black vs. blond hair color | 2,287 European ancestry female individuals | 2008-05-16 | hair_color_brown | -0,719317249 | 0,065808427 | 1,47913E-27 |
| IRF4 | rs12203592 | 6_396321 | 1 | Black vs. blond hair color | 2,287 European ancestry female individuals | 2008-05-16 | skin_sensitivity_to_sun_binary_12_45 | 0,398137469 | 0,067255208 | 1,95935E-09 |

| | | | | | | | | | | |
|------|------------|----------|---|----------------------------|--------------------------------------------|------------|-----------------------------------------|--------------|-------------|-------------|
| IRF4 | rs12203592 | 6_396321 | 1 | Black vs. blond hair color | 2,287 European ancestry female individuals | 2008-05-16 | eye_color_phototype_score | -0,6112 | 0,09893 | 7,033E-10 |
| IRF4 | rs12203592 | 6_396321 | 1 | Black vs. blond hair color | 2,287 European ancestry female individuals | 2008-05-16 | eye_color | 0,2115 | 0,0315 | 2,102E-11 |
| IRF4 | rs12203592 | 6_396321 | 1 | Black vs. blond hair color | 2,287 European ancestry female individuals | 2008-05-16 | freckling_phototype_score | -0,9847 | 0,0645 | 1,851E-51 |
| IRF4 | rs12203592 | 6_396321 | 1 | Black vs. blond hair color | 2,287 European ancestry female individuals | 2008-05-16 | freckling | -0,4661 | 0,03429 | 2,434E-41 |
| IRF4 | rs12203592 | 6_396321 | 1 | Black vs. blond hair color | 2,287 European ancestry female individuals | 2008-05-16 | hair_color_phototype_score | 1,915 | 0,1185 | 2,789E-57 |
| IRF4 | rs12203592 | 6_396321 | 1 | Black vs. blond hair color | 2,287 European ancestry female individuals | 2008-05-16 | hair_color | -0,3258 | 0,0229 | 4,79E-45 |
| IRF4 | rs12203592 | 6_396321 | 1 | Black vs. blond hair color | 2,287 European ancestry female individuals | 2008-05-16 | skin_color_phototype_score | -0,8223 | 0,1131 | 4,075E-13 |
| IRF4 | rs12203592 | 6_396321 | 1 | Black vs. blond hair color | 2,287 European ancestry female individuals | 2008-05-16 | skin_color | 0,1762 | 0,02289 | 1,652E-14 |
| IRF4 | rs12203592 | 6_396321 | 1 | Black vs. blond hair color | 2,287 European ancestry female individuals | 2008-05-16 | skin_sensitivity_to_sun_phototype_score | -0,7418 | 0,1181 | 3,697E-10 |
| IRF4 | rs12203592 | 6_396321 | 1 | Black vs. blond hair color | 2,287 European ancestry female individuals | 2008-05-16 | skin_sensitivity_to_sun | -0,2438 | 0,03735 | 7,33E-11 |
| IRF4 | rs12203592 | 6_396321 | 1 | Black vs. red hair color | 2,287 European ancestry female individuals | 2008-05-16 | eye_color_dark | -0,468244241 | 0,064522426 | 4,58449E-13 |
| IRF4 | rs12203592 | 6_396321 | 1 | Black vs. red hair color | 2,287 European ancestry female individuals | 2008-05-16 | freckling_binary | 0,73500735 | 0,11281035 | 1,21815E-10 |
| IRF4 | rs12203592 | 6_396321 | 1 | Black vs. red hair color | 2,287 European ancestry female individuals | 2008-05-16 | hair_color_black | 1,048929655 | 0,071533676 | 8,19529E-48 |
| IRF4 | rs12203592 | 6_396321 | 1 | Black vs. red hair color | 2,287 European ancestry female individuals | 2008-05-16 | hair_color_brown | -0,719317249 | 0,065808427 | 1,47913E-27 |
| IRF4 | rs12203592 | 6_396321 | 1 | Black vs. red hair color | 2,287 European ancestry female individuals | 2008-05-16 | skin_sensitivity_to_sun_binary_12_45 | 0,398137469 | 0,067255208 | 1,95935E-09 |
| IRF4 | rs12203592 | 6_396321 | 1 | Black vs. red hair color | 2,287 European ancestry female individuals | 2008-05-16 | eye_color_phototype_score | -0,6112 | 0,09893 | 7,033E-10 |
| IRF4 | rs12203592 | 6_396321 | 1 | Black vs. red hair color | 2,287 European ancestry female individuals | 2008-05-16 | eye_color | 0,2115 | 0,0315 | 2,102E-11 |
| IRF4 | rs12203592 | 6_396321 | 1 | Black vs. red hair color | 2,287 European ancestry female individuals | 2008-05-16 | freckling_phototype_score | -0,9847 | 0,0645 | 1,851E-51 |
| IRF4 | rs12203592 | 6_396321 | 1 | Black vs. red hair color | 2,287 European ancestry female individuals | 2008-05-16 | freckling | -0,4661 | 0,03429 | 2,434E-41 |
| IRF4 | rs12203592 | 6_396321 | 1 | Black vs. red hair color | 2,287 European ancestry female individuals | 2008-05-16 | hair_color_phototype_score | 1,915 | 0,1185 | 2,789E-57 |
| IRF4 | rs12203592 | 6_396321 | 1 | Black vs. red hair color | 2,287 European ancestry female individuals | 2008-05-16 | hair_color | -0,3258 | 0,0229 | 4,79E-45 |

| | | | | | | | | | | |
|------|------------|----------|---|--------------------------|--------------------------------------------|------------|-----------------------------------------|--------------|-------------|-------------|
| IRF4 | rs12203592 | 6_396321 | 1 | Black vs. red hair color | 2,287 European ancestry female individuals | 2008-05-16 | skin_color_phototype_score | -0,8223 | 0,1131 | 4,075E-13 |
| IRF4 | rs12203592 | 6_396321 | 1 | Black vs. red hair color | 2,287 European ancestry female individuals | 2008-05-16 | skin_color | 0,1762 | 0,02289 | 1,652E-14 |
| IRF4 | rs12203592 | 6_396321 | 1 | Black vs. red hair color | 2,287 European ancestry female individuals | 2008-05-16 | skin_sensitivity_to_sun_phototype_score | -0,7418 | 0,1181 | 3,697E-10 |
| IRF4 | rs12203592 | 6_396321 | 1 | Black vs. red hair color | 2,287 European ancestry female individuals | 2008-05-16 | skin_sensitivity_to_sun | -0,2438 | 0,03735 | 7,33E-11 |
| IRF4 | rs12203592 | 6_396321 | 1 | Hair color | 9,126 European ancestry individuals | 2010-06-24 | eye_color_dark | -0,468244241 | 0,064522426 | 4,58449E-13 |
| IRF4 | rs12203592 | 6_396321 | 1 | Hair color | 9,126 European ancestry individuals | 2010-06-24 | freckling_binary | 0,73500735 | 0,11281035 | 1,21815E-10 |
| IRF4 | rs12203592 | 6_396321 | 1 | Hair color | 9,126 European ancestry individuals | 2010-06-24 | hair_color_black | 1,048929655 | 0,071533676 | 8,19529E-48 |
| IRF4 | rs12203592 | 6_396321 | 1 | Hair color | 9,126 European ancestry individuals | 2010-06-24 | hair_color_brown | -0,719317249 | 0,065808427 | 1,47913E-27 |
| IRF4 | rs12203592 | 6_396321 | 1 | Hair color | 9,126 European ancestry individuals | 2010-06-24 | skin_sensitivity_to_sun_binary_12_45 | 0,398137469 | 0,067255208 | 1,95935E-09 |
| IRF4 | rs12203592 | 6_396321 | 1 | Hair color | 9,126 European ancestry individuals | 2010-06-24 | eye_color_phototype_score | -0,6112 | 0,09893 | 7,033E-10 |
| IRF4 | rs12203592 | 6_396321 | 1 | Hair color | 9,126 European ancestry individuals | 2010-06-24 | eye_color | 0,2115 | 0,0315 | 2,102E-11 |
| IRF4 | rs12203592 | 6_396321 | 1 | Hair color | 9,126 European ancestry individuals | 2010-06-24 | freckling_phototype_score | -0,9847 | 0,0645 | 1,851E-51 |
| IRF4 | rs12203592 | 6_396321 | 1 | Hair color | 9,126 European ancestry individuals | 2010-06-24 | freckling | -0,4661 | 0,03429 | 2,434E-41 |
| IRF4 | rs12203592 | 6_396321 | 1 | Hair color | 9,126 European ancestry individuals | 2010-06-24 | hair_color_phototype_score | 1,915 | 0,1185 | 2,789E-57 |
| IRF4 | rs12203592 | 6_396321 | 1 | Hair color | 9,126 European ancestry individuals | 2010-06-24 | hair_color | -0,3258 | 0,0229 | 4,79E-45 |
| IRF4 | rs12203592 | 6_396321 | 1 | Hair color | 9,126 European ancestry individuals | 2010-06-24 | skin_color_phototype_score | -0,8223 | 0,1131 | 4,075E-13 |
| IRF4 | rs12203592 | 6_396321 | 1 | Hair color | 9,126 European ancestry individuals | 2010-06-24 | skin_color | 0,1762 | 0,02289 | 1,652E-14 |
| IRF4 | rs12203592 | 6_396321 | 1 | Hair color | 9,126 European ancestry individuals | 2010-06-24 | skin_sensitivity_to_sun_phototype_score | -0,7418 | 0,1181 | 3,697E-10 |
| IRF4 | rs12203592 | 6_396321 | 1 | Hair color | 9,126 European ancestry individuals | 2010-06-24 | skin_sensitivity_to_sun | -0,2438 | 0,03735 | 7,33E-11 |
| IRF4 | rs12203592 | 6_396321 | 1 | Eye color | 9,126 European ancestry individuals | 2010-06-24 | eye_color_dark | -0,468244241 | 0,064522426 | 4,58449E-13 |
| IRF4 | rs12203592 | 6_396321 | 1 | Eye color | 9,126 European ancestry individuals | 2010-06-24 | freckling_binary | 0,73500735 | 0,11281035 | 1,21815E-10 |

| | | | | | | | | | |
|------|------------|----------|-------------|-------------------------------------|------------|-----------------------------------------|--------------|-------------|-------------|
| IRF4 | rs12203592 | 6_396321 | 1 Eye color | 9,126 European ancestry individuals | 2010-06-24 | hair_color_black | 1,048929655 | 0,071533676 | 8,19529E-48 |
| IRF4 | rs12203592 | 6_396321 | 1 Eye color | 9,126 European ancestry individuals | 2010-06-24 | hair_color_brown | -0,719317249 | 0,065808427 | 1,47913E-27 |
| IRF4 | rs12203592 | 6_396321 | 1 Eye color | 9,126 European ancestry individuals | 2010-06-24 | skin_sensitivity_to_sun_binary_12_45 | 0,398137469 | 0,067255208 | 1,95935E-09 |
| IRF4 | rs12203592 | 6_396321 | 1 Eye color | 9,126 European ancestry individuals | 2010-06-24 | eye_color_phototype_score | -0,6112 | 0,09893 | 7,033E-10 |
| IRF4 | rs12203592 | 6_396321 | 1 Eye color | 9,126 European ancestry individuals | 2010-06-24 | eye_color | 0,2115 | 0,0315 | 2,102E-11 |
| IRF4 | rs12203592 | 6_396321 | 1 Eye color | 9,126 European ancestry individuals | 2010-06-24 | freckling_phototype_score | -0,9847 | 0,0645 | 1,851E-51 |
| IRF4 | rs12203592 | 6_396321 | 1 Eye color | 9,126 European ancestry individuals | 2010-06-24 | freckling | -0,4661 | 0,03429 | 2,434E-41 |
| IRF4 | rs12203592 | 6_396321 | 1 Eye color | 9,126 European ancestry individuals | 2010-06-24 | hair_color_phototype_score | 1,915 | 0,1185 | 2,789E-57 |
| IRF4 | rs12203592 | 6_396321 | 1 Eye color | 9,126 European ancestry individuals | 2010-06-24 | hair_color | -0,3258 | 0,0229 | 4,79E-45 |
| IRF4 | rs12203592 | 6_396321 | 1 Eye color | 9,126 European ancestry individuals | 2010-06-24 | skin_color_phototype_score | -0,8223 | 0,1131 | 4,075E-13 |
| IRF4 | rs12203592 | 6_396321 | 1 Eye color | 9,126 European ancestry individuals | 2010-06-24 | skin_color | 0,1762 | 0,02289 | 1,652E-14 |
| IRF4 | rs12203592 | 6_396321 | 1 Eye color | 9,126 European ancestry individuals | 2010-06-24 | skin_sensitivity_to_sun_phototype_score | -0,7418 | 0,1181 | 3,697E-10 |
| IRF4 | rs12203592 | 6_396321 | 1 Eye color | 9,126 European ancestry individuals | 2010-06-24 | skin_sensitivity_to_sun | -0,2438 | 0,03735 | 7,33E-11 |
| IRF4 | rs12203592 | 6_396321 | 1 Freckling | 9,126 European ancestry individuals | 2010-06-24 | eye_color_dark | -0,468244241 | 0,064522426 | 4,58449E-13 |
| IRF4 | rs12203592 | 6_396321 | 1 Freckling | 9,126 European ancestry individuals | 2010-06-24 | freckling_binary | 0,73500735 | 0,11281035 | 1,21815E-10 |
| IRF4 | rs12203592 | 6_396321 | 1 Freckling | 9,126 European ancestry individuals | 2010-06-24 | hair_color_black | 1,048929655 | 0,071533676 | 8,19529E-48 |
| IRF4 | rs12203592 | 6_396321 | 1 Freckling | 9,126 European ancestry individuals | 2010-06-24 | hair_color_brown | -0,719317249 | 0,065808427 | 1,47913E-27 |
| IRF4 | rs12203592 | 6_396321 | 1 Freckling | 9,126 European ancestry individuals | 2010-06-24 | skin_sensitivity_to_sun_binary_12_45 | 0,398137469 | 0,067255208 | 1,95935E-09 |
| IRF4 | rs12203592 | 6_396321 | 1 Freckling | 9,126 European ancestry individuals | 2010-06-24 | eye_color_phototype_score | -0,6112 | 0,09893 | 7,033E-10 |
| IRF4 | rs12203592 | 6_396321 | 1 Freckling | 9,126 European ancestry individuals | 2010-06-24 | eye_color | 0,2115 | 0,0315 | 2,102E-11 |
| IRF4 | rs12203592 | 6_396321 | 1 Freckling | 9,126 European ancestry individuals | 2010-06-24 | freckling_phototype_score | -0,9847 | 0,0645 | 1,851E-51 |

| | | | | | | | | | |
|------|------------|----------|--------------|-------------------------------------|------------|-----------------------------------------|--------------|-------------|-------------|
| IRF4 | rs12203592 | 6_396321 | 1 Freckling | 9,126 European ancestry individuals | 2010-06-24 | freckling | -0,4661 | 0,03429 | 2,434E-41 |
| IRF4 | rs12203592 | 6_396321 | 1 Freckling | 9,126 European ancestry individuals | 2010-06-24 | hair_color_phototype_score | 1,915 | 0,1185 | 2,789E-57 |
| IRF4 | rs12203592 | 6_396321 | 1 Freckling | 9,126 European ancestry individuals | 2010-06-24 | hair_color | -0,3258 | 0,0229 | 4,79E-45 |
| IRF4 | rs12203592 | 6_396321 | 1 Freckling | 9,126 European ancestry individuals | 2010-06-24 | skin_color_phototype_score | -0,8223 | 0,1131 | 4,075E-13 |
| IRF4 | rs12203592 | 6_396321 | 1 Freckling | 9,126 European ancestry individuals | 2010-06-24 | skin_color | 0,1762 | 0,02289 | 1,652E-14 |
| IRF4 | rs12203592 | 6_396321 | 1 Freckling | 9,126 European ancestry individuals | 2010-06-24 | skin_sensitivity_to_sun_phototype_score | -0,7418 | 0,1181 | 3,697E-10 |
| IRF4 | rs12203592 | 6_396321 | 1 Freckling | 9,126 European ancestry individuals | 2010-06-24 | skin_sensitivity_to_sun | -0,2438 | 0,03735 | 7,33E-11 |
| IRF4 | rs12203592 | 6_396321 | 1 Hair color | 9,126 European ancestry individuals | 2010-06-24 | eye_color_dark | -0,468244241 | 0,064522426 | 4,58449E-13 |
| IRF4 | rs12203592 | 6_396321 | 1 Hair color | 9,126 European ancestry individuals | 2010-06-24 | freckling_binary | 0,73500735 | 0,11281035 | 1,21815E-10 |
| IRF4 | rs12203592 | 6_396321 | 1 Hair color | 9,126 European ancestry individuals | 2010-06-24 | hair_color_black | 1,048929655 | 0,071533676 | 8,19529E-48 |
| IRF4 | rs12203592 | 6_396321 | 1 Hair color | 9,126 European ancestry individuals | 2010-06-24 | hair_color_brown | -0,719317249 | 0,065808427 | 1,47913E-27 |
| IRF4 | rs12203592 | 6_396321 | 1 Hair color | 9,126 European ancestry individuals | 2010-06-24 | skin_sensitivity_to_sun_binary_12_45 | 0,398137469 | 0,067255208 | 1,95935E-09 |
| IRF4 | rs12203592 | 6_396321 | 1 Hair color | 9,126 European ancestry individuals | 2010-06-24 | eye_color_phototype_score | -0,6112 | 0,09893 | 7,033E-10 |
| IRF4 | rs12203592 | 6_396321 | 1 Hair color | 9,126 European ancestry individuals | 2010-06-24 | eye_color | 0,2115 | 0,0315 | 2,102E-11 |
| IRF4 | rs12203592 | 6_396321 | 1 Hair color | 9,126 European ancestry individuals | 2010-06-24 | freckling_phototype_score | -0,9847 | 0,0645 | 1,851E-51 |
| IRF4 | rs12203592 | 6_396321 | 1 Hair color | 9,126 European ancestry individuals | 2010-06-24 | freckling | -0,4661 | 0,03429 | 2,434E-41 |
| IRF4 | rs12203592 | 6_396321 | 1 Hair color | 9,126 European ancestry individuals | 2010-06-24 | hair_color_phototype_score | 1,915 | 0,1185 | 2,789E-57 |
| IRF4 | rs12203592 | 6_396321 | 1 Hair color | 9,126 European ancestry individuals | 2010-06-24 | hair_color | -0,3258 | 0,0229 | 4,79E-45 |
| IRF4 | rs12203592 | 6_396321 | 1 Hair color | 9,126 European ancestry individuals | 2010-06-24 | skin_color_phototype_score | -0,8223 | 0,1131 | 4,075E-13 |
| IRF4 | rs12203592 | 6_396321 | 1 Hair color | 9,126 European ancestry individuals | 2010-06-24 | skin_color | 0,1762 | 0,02289 | 1,652E-14 |
| IRF4 | rs12203592 | 6_396321 | 1 Hair color | 9,126 European ancestry individuals | 2010-06-24 | skin_sensitivity_to_sun_phototype_score | -0,7418 | 0,1181 | 3,697E-10 |

| | | | | | | | | | | |
|------|------------|----------|---|--------------------------------|-----------------------------------------------------------------------------------------|------------|--------------------------------------|--------------|-------------|-------------|
| IRF4 | rs12203592 | 6_396321 | 1 | Hair color | 9,126 European ancestry individuals | 2010-06-24 | skin_sensitivity_to_sun | -0,2438 | 0,03735 | 7,33E-11 |
| IRF4 | rs12203592 | 6_396321 | 1 | Progressive supranuclear palsy | 1,069 European ancestry cases, 2,958 European ancestry controls, 45 cases, 329 controls | 2011-06-19 | eye_color_dark | -0,468244241 | 0,064522426 | 4,58449E-13 |
| IRF4 | rs12203592 | 6_396321 | 1 | Progressive supranuclear palsy | 1,069 European ancestry cases, 2,958 European ancestry controls, 45 cases, 329 controls | 2011-06-19 | freckling_binary | 0,73500735 | 0,11281035 | 1,21815E-10 |
| IRF4 | rs12203592 | 6_396321 | 1 | Progressive supranuclear palsy | 1,069 European ancestry cases, 2,958 European ancestry controls, 45 cases, 329 controls | 2011-06-19 | hair_color_black | 1,048929655 | 0,071533676 | 8,19529E-48 |
| IRF4 | rs12203592 | 6_396321 | 1 | Progressive supranuclear palsy | 1,069 European ancestry cases, 2,958 European ancestry controls, 45 cases, 329 controls | 2011-06-19 | hair_color_brown | -0,719317249 | 0,065808427 | 1,47913E-27 |
| IRF4 | rs12203592 | 6_396321 | 1 | Progressive supranuclear palsy | 1,069 European ancestry cases, 2,958 European ancestry controls, 45 cases, 329 controls | 2011-06-19 | skin_sensitivity_to_sun_binary_12_45 | 0,398137469 | 0,067255208 | 1,95935E-09 |
| IRF4 | rs12203592 | 6_396321 | 1 | Progressive supranuclear palsy | 1,069 European ancestry cases, 2,958 European ancestry controls, 45 cases, 329 controls | 2011-06-19 | eye_color_phototype_score | -0,6112 | 0,09893 | 7,033E-10 |
| IRF4 | rs12203592 | 6_396321 | 1 | Progressive supranuclear palsy | 1,069 European ancestry cases, 2,958 European ancestry controls, 45 cases, 329 controls | 2011-06-19 | eye_color | 0,2115 | 0,0315 | 2,102E-11 |
| IRF4 | rs12203592 | 6_396321 | 1 | Progressive supranuclear palsy | 1,069 European ancestry cases, 2,958 European ancestry controls, 45 cases, 329 controls | 2011-06-19 | freckling_phototype_score | -0,9847 | 0,0645 | 1,851E-51 |
| IRF4 | rs12203592 | 6_396321 | 1 | Progressive supranuclear palsy | 1,069 European ancestry cases, 2,958 European ancestry controls, 45 cases, 329 controls | 2011-06-19 | freckling | -0,4661 | 0,03429 | 2,434E-41 |
| IRF4 | rs12203592 | 6_396321 | 1 | Progressive supranuclear palsy | 1,069 European ancestry cases, 2,958 European ancestry controls, 45 cases, 329 controls | 2011-06-19 | hair_color_phototype_score | 1,915 | 0,1185 | 2,789E-57 |

| | | | | | | | | | |
|------|------------|----------|-------------------------------------|-----------------------------------------------------------------------------------------|------------|-----------------------------------------|--------------|-------------|-------------|
| IRF4 | rs12203592 | 6_396321 | Progressive 1 supranuclear palsy | 1,069 European ancestry cases, 2,958 European ancestry controls, 45 cases, 329 controls | 2011-06-19 | hair_color | -0,3258 | 0,0229 | 4,79E-45 |
| IRF4 | rs12203592 | 6_396321 | Progressive 1 supranuclear palsy | 1,069 European ancestry cases, 2,958 European ancestry controls, 45 cases, 329 controls | 2011-06-19 | skin_color_phototype_score | -0,8223 | 0,1131 | 4,075E-13 |
| IRF4 | rs12203592 | 6_396321 | Progressive 1 supranuclear palsy | 1,069 European ancestry cases, 2,958 European ancestry controls, 45 cases, 329 controls | 2011-06-19 | skin_color | 0,1762 | 0,02289 | 1,652E-14 |
| IRF4 | rs12203592 | 6_396321 | Progressive 1 supranuclear palsy | 1,069 European ancestry cases, 2,958 European ancestry controls, 45 cases, 329 controls | 2011-06-19 | skin_sensitivity_to_sun_phototype_score | -0,7418 | 0,1181 | 3,697E-10 |
| IRF4 | rs12203592 | 6_396321 | Progressive 1 supranuclear palsy | 1,069 European ancestry cases, 2,958 European ancestry controls, 45 cases, 329 controls | 2011-06-19 | skin_sensitivity_to_sun | -0,2438 | 0,03735 | 7,33E-11 |
| IRF4 | rs12203592 | 6_396321 | Non-melanoma skin cancer | 6,747 European ancestry individuals | 2013-04-01 | eye_color_dark | -0,468244241 | 0,064522426 | 4,58449E-13 |
| IRF4 | rs12203592 | 6_396321 | Non-melanoma skin cancer | 6,747 European ancestry individuals | 2013-04-01 | freckling_binary | 0,73500735 | 0,11281035 | 1,21815E-10 |
| IRF4 | rs12203592 | 6_396321 | Non-melanoma skin cancer | 6,747 European ancestry individuals | 2013-04-01 | hair_color_black | 1,048929655 | 0,071533676 | 8,19529E-48 |
| IRF4 | rs12203592 | 6_396321 | Non-melanoma skin cancer | 6,747 European ancestry individuals | 2013-04-01 | hair_color_brown | -0,719317249 | 0,065808427 | 1,47913E-27 |
| IRF4 | rs12203592 | 6_396321 | Non-melanoma skin cancer | 6,747 European ancestry individuals | 2013-04-01 | skin_sensitivity_to_sun_binary_12_45 | 0,398137469 | 0,067255208 | 1,95935E-09 |
| IRF4 | rs12203592 | 6_396321 | Non-melanoma skin cancer | 6,747 European ancestry individuals | 2013-04-01 | eye_color_phototype_score | -0,6112 | 0,09893 | 7,033E-10 |
| IRF4 | rs12203592 | 6_396321 | Non-melanoma skin cancer | 6,747 European ancestry individuals | 2013-04-01 | eye_color | 0,2115 | 0,0315 | 2,102E-11 |
| IRF4 | rs12203592 | 6_396321 | Non-melanoma skin cancer | 6,747 European ancestry individuals | 2013-04-01 | freckling_phototype_score | -0,9847 | 0,0645 | 1,851E-51 |
| IRF4 | rs12203592 | 6_396321 | Non-melanoma skin cancer | 6,747 European ancestry individuals | 2013-04-01 | freckling | -0,4661 | 0,03429 | 2,434E-41 |
| IRF4 | rs12203592 | 6_396321 | Non-melanoma skin cancer | 6,747 European ancestry individuals | 2013-04-01 | hair_color_phototype_score | 1,915 | 0,1185 | 2,789E-57 |
| IRF4 | rs12203592 | 6_396321 | Non-melanoma skin cancer | 6,747 European ancestry individuals | 2013-04-01 | hair_color | -0,3258 | 0,0229 | 4,79E-45 |
| IRF4 | rs12203592 | 6_396321 | Non-melanoma skin cancer | 6,747 European ancestry individuals | 2013-04-01 | skin_color_phototype_score | -0,8223 | 0,1131 | 4,075E-13 |

| | | | | | | | | | | |
|------|------------|----------|---|--------------------------|-------------------------------------|------------|-----------------------------------------|--------------|-------------|-------------|
| IRF4 | rs12203592 | 6_396321 | 1 | Non-melanoma skin cancer | 6,747 European ancestry individuals | 2013-04-01 | skin_color | 0,1762 | 0,02289 | 1,652E-14 |
| IRF4 | rs12203592 | 6_396321 | 1 | Non-melanoma skin cancer | 6,747 European ancestry individuals | 2013-04-01 | skin_sensitivity_to_sun_phototype_score | -0,7418 | 0,1181 | 3,697E-10 |
| IRF4 | rs12203592 | 6_396321 | 1 | Non-melanoma skin cancer | 6,747 European ancestry individuals | 2013-04-01 | skin_sensitivity_to_sun | -0,2438 | 0,03735 | 7,33E-11 |
| IRF4 | rs12203592 | 6_396321 | 1 | Tanning | 9,678 European ancestry individuals | 2013-04-01 | eye_color_dark | -0,468244241 | 0,064522426 | 4,58449E-13 |
| IRF4 | rs12203592 | 6_396321 | 1 | Tanning | 9,678 European ancestry individuals | 2013-04-01 | freckling_binary | 0,73500735 | 0,11281035 | 1,21815E-10 |
| IRF4 | rs12203592 | 6_396321 | 1 | Tanning | 9,678 European ancestry individuals | 2013-04-01 | hair_color_black | 1,048929655 | 0,071533676 | 8,19529E-48 |
| IRF4 | rs12203592 | 6_396321 | 1 | Tanning | 9,678 European ancestry individuals | 2013-04-01 | hair_color_brown | -0,719317249 | 0,065808427 | 1,47913E-27 |
| IRF4 | rs12203592 | 6_396321 | 1 | Tanning | 9,678 European ancestry individuals | 2013-04-01 | skin_sensitivity_to_sun_binary_12_45 | 0,398137469 | 0,067255208 | 1,95935E-09 |
| IRF4 | rs12203592 | 6_396321 | 1 | Tanning | 9,678 European ancestry individuals | 2013-04-01 | eye_color_phototype_score | -0,6112 | 0,09893 | 7,033E-10 |
| IRF4 | rs12203592 | 6_396321 | 1 | Tanning | 9,678 European ancestry individuals | 2013-04-01 | eye_color | 0,2115 | 0,0315 | 2,102E-11 |
| IRF4 | rs12203592 | 6_396321 | 1 | Tanning | 9,678 European ancestry individuals | 2013-04-01 | freckling_phototype_score | -0,9847 | 0,0645 | 1,851E-51 |
| IRF4 | rs12203592 | 6_396321 | 1 | Tanning | 9,678 European ancestry individuals | 2013-04-01 | freckling | -0,4661 | 0,03429 | 2,434E-41 |
| IRF4 | rs12203592 | 6_396321 | 1 | Tanning | 9,678 European ancestry individuals | 2013-04-01 | hair_color_phototype_score | 1,915 | 0,1185 | 2,789E-57 |
| IRF4 | rs12203592 | 6_396321 | 1 | Tanning | 9,678 European ancestry individuals | 2013-04-01 | hair_color | -0,3258 | 0,0229 | 4,79E-45 |
| IRF4 | rs12203592 | 6_396321 | 1 | Tanning | 9,678 European ancestry individuals | 2013-04-01 | skin_color_phototype_score | -0,8223 | 0,1131 | 4,075E-13 |
| IRF4 | rs12203592 | 6_396321 | 1 | Tanning | 9,678 European ancestry individuals | 2013-04-01 | skin_color | 0,1762 | 0,02289 | 1,652E-14 |
| IRF4 | rs12203592 | 6_396321 | 1 | Tanning | 9,678 European ancestry individuals | 2013-04-01 | skin_sensitivity_to_sun_phototype_score | -0,7418 | 0,1181 | 3,697E-10 |
| IRF4 | rs12203592 | 6_396321 | 1 | Tanning | 9,678 European ancestry individuals | 2013-04-01 | skin_sensitivity_to_sun | -0,2438 | 0,03735 | 7,33E-11 |
| IRF4 | rs12203592 | 6_396321 | 1 | Hair color | 7,070 European ancestry individuals | 2013-04-01 | eye_color_dark | -0,468244241 | 0,064522426 | 4,58449E-13 |
| IRF4 | rs12203592 | 6_396321 | 1 | Hair color | 7,070 European ancestry individuals | 2013-04-01 | freckling_binary | 0,73500735 | 0,11281035 | 1,21815E-10 |
| IRF4 | rs12203592 | 6_396321 | 1 | Hair color | 7,070 European ancestry individuals | 2013-04-01 | hair_color_black | 1,048929655 | 0,071533676 | 8,19529E-48 |

| | | | | | | | | | |
|------|------------|----------|--------------|-------------------------------------|------------|-----------------------------------------|--------------|-------------|-------------|
| IRF4 | rs12203592 | 6_396321 | 1 Hair color | 7,070 European ancestry individuals | 2013-04-01 | hair_color_brown | -0,719317249 | 0,065808427 | 1,47913E-27 |
| IRF4 | rs12203592 | 6_396321 | 1 Hair color | 7,070 European ancestry individuals | 2013-04-01 | skin_sensitivity_to_sun_binary_12_45 | 0,398137469 | 0,067255208 | 1,95935E-09 |
| IRF4 | rs12203592 | 6_396321 | 1 Hair color | 7,070 European ancestry individuals | 2013-04-01 | eye_color_phototype_score | -0,6112 | 0,09893 | 7,033E-10 |
| IRF4 | rs12203592 | 6_396321 | 1 Hair color | 7,070 European ancestry individuals | 2013-04-01 | eye_color | 0,2115 | 0,0315 | 2,102E-11 |
| IRF4 | rs12203592 | 6_396321 | 1 Hair color | 7,070 European ancestry individuals | 2013-04-01 | freckling_phototype_score | -0,9847 | 0,0645 | 1,851E-51 |
| IRF4 | rs12203592 | 6_396321 | 1 Hair color | 7,070 European ancestry individuals | 2013-04-01 | freckling | -0,4661 | 0,03429 | 2,434E-41 |
| IRF4 | rs12203592 | 6_396321 | 1 Hair color | 7,070 European ancestry individuals | 2013-04-01 | hair_color_phototype_score | 1,915 | 0,1185 | 2,789E-57 |
| IRF4 | rs12203592 | 6_396321 | 1 Hair color | 7,070 European ancestry individuals | 2013-04-01 | hair_color | -0,3258 | 0,0229 | 4,79E-45 |
| IRF4 | rs12203592 | 6_396321 | 1 Hair color | 7,070 European ancestry individuals | 2013-04-01 | skin_color_phototype_score | -0,8223 | 0,1131 | 4,075E-13 |
| IRF4 | rs12203592 | 6_396321 | 1 Hair color | 7,070 European ancestry individuals | 2013-04-01 | skin_color | 0,1762 | 0,02289 | 1,652E-14 |
| IRF4 | rs12203592 | 6_396321 | 1 Hair color | 7,070 European ancestry individuals | 2013-04-01 | skin_sensitivity_to_sun_phototype_score | -0,7418 | 0,1181 | 3,697E-10 |
| IRF4 | rs12203592 | 6_396321 | 1 Hair color | 7,070 European ancestry individuals | 2013-04-01 | skin_sensitivity_to_sun | -0,2438 | 0,03735 | 7,33E-11 |
| IRF4 | rs12203592 | 6_396321 | 1 Sunburns | 9,283 European ancestry individuals | 2013-04-01 | eye_color_dark | -0,468244241 | 0,064522426 | 4,58449E-13 |
| IRF4 | rs12203592 | 6_396321 | 1 Sunburns | 9,283 European ancestry individuals | 2013-04-01 | freckling_binary | 0,73500735 | 0,11281035 | 1,21815E-10 |
| IRF4 | rs12203592 | 6_396321 | 1 Sunburns | 9,283 European ancestry individuals | 2013-04-01 | hair_color_black | 1,048929655 | 0,071533676 | 8,19529E-48 |
| IRF4 | rs12203592 | 6_396321 | 1 Sunburns | 9,283 European ancestry individuals | 2013-04-01 | hair_color_brown | -0,719317249 | 0,065808427 | 1,47913E-27 |
| IRF4 | rs12203592 | 6_396321 | 1 Sunburns | 9,283 European ancestry individuals | 2013-04-01 | skin_sensitivity_to_sun_binary_12_45 | 0,398137469 | 0,067255208 | 1,95935E-09 |
| IRF4 | rs12203592 | 6_396321 | 1 Sunburns | 9,283 European ancestry individuals | 2013-04-01 | eye_color_phototype_score | -0,6112 | 0,09893 | 7,033E-10 |
| IRF4 | rs12203592 | 6_396321 | 1 Sunburns | 9,283 European ancestry individuals | 2013-04-01 | eye_color | 0,2115 | 0,0315 | 2,102E-11 |
| IRF4 | rs12203592 | 6_396321 | 1 Sunburns | 9,283 European ancestry individuals | 2013-04-01 | freckling_phototype_score | -0,9847 | 0,0645 | 1,851E-51 |
| IRF4 | rs12203592 | 6_396321 | 1 Sunburns | 9,283 European ancestry individuals | 2013-04-01 | freckling | -0,4661 | 0,03429 | 2,434E-41 |

| | | | | | | | | | |
|------|------------|----------|-----------------------|-------------------------------------|------------|-----------------------------------------|--------------|-------------|-------------|
| IRF4 | rs12203592 | 6_396321 | 1 Sunburns | 9,283 European ancestry individuals | 2013-04-01 | hair_color_phototype_score | 1,915 | 0,1185 | 2,789E-57 |
| IRF4 | rs12203592 | 6_396321 | 1 Sunburns | 9,283 European ancestry individuals | 2013-04-01 | hair_color | -0,3258 | 0,0229 | 4,79E-45 |
| IRF4 | rs12203592 | 6_396321 | 1 Sunburns | 9,283 European ancestry individuals | 2013-04-01 | skin_color_phototype_score | -0,8223 | 0,1131 | 4,075E-13 |
| IRF4 | rs12203592 | 6_396321 | 1 Sunburns | 9,283 European ancestry individuals | 2013-04-01 | skin_color | 0,1762 | 0,02289 | 1,652E-14 |
| IRF4 | rs12203592 | 6_396321 | 1 Sunburns | 9,283 European ancestry individuals | 2013-04-01 | skin_sensitivity_to_sun_phototype_score | -0,7418 | 0,1181 | 3,697E-10 |
| IRF4 | rs12203592 | 6_396321 | 1 Sunburns | 9,283 European ancestry individuals | 2013-04-01 | skin_sensitivity_to_sun | -0,2438 | 0,03735 | 7,33E-11 |
| IRF4 | rs12203592 | 6_396321 | 1 Facial pigmentation | 2,844 European ancestry individuals | 2015-02-23 | eye_color_dark | -0,468244241 | 0,064522426 | 4,58449E-13 |
| IRF4 | rs12203592 | 6_396321 | 1 Facial pigmentation | 2,844 European ancestry individuals | 2015-02-23 | freckling_binary | 0,73500735 | 0,11281035 | 1,21815E-10 |
| IRF4 | rs12203592 | 6_396321 | 1 Facial pigmentation | 2,844 European ancestry individuals | 2015-02-23 | hair_color_black | 1,048929655 | 0,071533676 | 8,19529E-48 |
| IRF4 | rs12203592 | 6_396321 | 1 Facial pigmentation | 2,844 European ancestry individuals | 2015-02-23 | hair_color_brown | -0,719317249 | 0,065808427 | 1,47913E-27 |
| IRF4 | rs12203592 | 6_396321 | 1 Facial pigmentation | 2,844 European ancestry individuals | 2015-02-23 | skin_sensitivity_to_sun_binary_12_45 | 0,398137469 | 0,067255208 | 1,95935E-09 |
| IRF4 | rs12203592 | 6_396321 | 1 Facial pigmentation | 2,844 European ancestry individuals | 2015-02-23 | eye_color_phototype_score | -0,6112 | 0,09893 | 7,033E-10 |
| IRF4 | rs12203592 | 6_396321 | 1 Facial pigmentation | 2,844 European ancestry individuals | 2015-02-23 | eye_color | 0,2115 | 0,0315 | 2,102E-11 |
| IRF4 | rs12203592 | 6_396321 | 1 Facial pigmentation | 2,844 European ancestry individuals | 2015-02-23 | freckling_phototype_score | -0,9847 | 0,0645 | 1,851E-51 |
| IRF4 | rs12203592 | 6_396321 | 1 Facial pigmentation | 2,844 European ancestry individuals | 2015-02-23 | freckling | -0,4661 | 0,03429 | 2,434E-41 |
| IRF4 | rs12203592 | 6_396321 | 1 Facial pigmentation | 2,844 European ancestry individuals | 2015-02-23 | hair_color_phototype_score | 1,915 | 0,1185 | 2,789E-57 |
| IRF4 | rs12203592 | 6_396321 | 1 Facial pigmentation | 2,844 European ancestry individuals | 2015-02-23 | hair_color | -0,3258 | 0,0229 | 4,79E-45 |
| IRF4 | rs12203592 | 6_396321 | 1 Facial pigmentation | 2,844 European ancestry individuals | 2015-02-23 | skin_color_phototype_score | -0,8223 | 0,1131 | 4,075E-13 |
| IRF4 | rs12203592 | 6_396321 | 1 Facial pigmentation | 2,844 European ancestry individuals | 2015-02-23 | skin_color | 0,1762 | 0,02289 | 1,652E-14 |
| IRF4 | rs12203592 | 6_396321 | 1 Facial pigmentation | 2,844 European ancestry individuals | 2015-02-23 | skin_sensitivity_to_sun_phototype_score | -0,7418 | 0,1181 | 3,697E-10 |
| IRF4 | rs12203592 | 6_396321 | 1 Facial pigmentation | 2,844 European ancestry individuals | 2015-02-23 | skin_sensitivity_to_sun | -0,2438 | 0,03735 | 7,33E-11 |

| | | | | | | | | | | |
|------|------------|----------|---|-----------------------------------|-------------------------------------------------------------------|------------|-----------------------------------------|--------------|-------------|-------------|
| IRF4 | rs12203592 | 6_396321 | 1 | Skin colour saturation | 5,857 European ancestry individuals | 2015-05-12 | eye_color_dark | -0,468244241 | 0,064522426 | 4,58449E-13 |
| IRF4 | rs12203592 | 6_396321 | 1 | Skin colour saturation | 5,857 European ancestry individuals | 2015-05-12 | freckling_binary | 0,73500735 | 0,11281035 | 1,21815E-10 |
| IRF4 | rs12203592 | 6_396321 | 1 | Skin colour saturation | 5,857 European ancestry individuals | 2015-05-12 | hair_color_black | 1,048929655 | 0,071533676 | 8,19529E-48 |
| IRF4 | rs12203592 | 6_396321 | 1 | Skin colour saturation | 5,857 European ancestry individuals | 2015-05-12 | hair_color_brown | -0,719317249 | 0,065808427 | 1,47913E-27 |
| IRF4 | rs12203592 | 6_396321 | 1 | Skin colour saturation | 5,857 European ancestry individuals | 2015-05-12 | skin_sensitivity_to_sun_binary_12_45 | 0,398137469 | 0,067255208 | 1,95935E-09 |
| IRF4 | rs12203592 | 6_396321 | 1 | Skin colour saturation | 5,857 European ancestry individuals | 2015-05-12 | eye_color_phototype_score | -0,6112 | 0,09893 | 7,033E-10 |
| IRF4 | rs12203592 | 6_396321 | 1 | Skin colour saturation | 5,857 European ancestry individuals | 2015-05-12 | eye_color | 0,2115 | 0,0315 | 2,102E-11 |
| IRF4 | rs12203592 | 6_396321 | 1 | Skin colour saturation | 5,857 European ancestry individuals | 2015-05-12 | freckling_phototype_score | -0,9847 | 0,0645 | 1,851E-51 |
| IRF4 | rs12203592 | 6_396321 | 1 | Skin colour saturation | 5,857 European ancestry individuals | 2015-05-12 | freckling | -0,4661 | 0,03429 | 2,434E-41 |
| IRF4 | rs12203592 | 6_396321 | 1 | Skin colour saturation | 5,857 European ancestry individuals | 2015-05-12 | hair_color_phototype_score | 1,915 | 0,1185 | 2,789E-57 |
| IRF4 | rs12203592 | 6_396321 | 1 | Skin colour saturation | 5,857 European ancestry individuals | 2015-05-12 | hair_color | -0,3258 | 0,0229 | 4,79E-45 |
| IRF4 | rs12203592 | 6_396321 | 1 | Skin colour saturation | 5,857 European ancestry individuals | 2015-05-12 | skin_color_phototype_score | -0,8223 | 0,1131 | 4,075E-13 |
| IRF4 | rs12203592 | 6_396321 | 1 | Skin colour saturation | 5,857 European ancestry individuals | 2015-05-12 | skin_color | 0,1762 | 0,02289 | 1,652E-14 |
| IRF4 | rs12203592 | 6_396321 | 1 | Skin colour saturation | 5,857 European ancestry individuals | 2015-05-12 | skin_sensitivity_to_sun_phototype_score | -0,7418 | 0,1181 | 3,697E-10 |
| IRF4 | rs12203592 | 6_396321 | 1 | Skin colour saturation | 5,857 European ancestry individuals | 2015-05-12 | skin_sensitivity_to_sun | -0,2438 | 0,03735 | 7,33E-11 |
| IRF4 | rs12203592 | 6_396321 | 1 | Cutaneous squamous cell carcinoma | 6,579 European ancestry cases, 280,558 European ancestry controls | 2016-07-18 | eye_color_dark | -0,468244241 | 0,064522426 | 4,58449E-13 |
| IRF4 | rs12203592 | 6_396321 | 1 | Cutaneous squamous cell carcinoma | 6,579 European ancestry cases, 280,558 European ancestry controls | 2016-07-18 | freckling_binary | 0,73500735 | 0,11281035 | 1,21815E-10 |
| IRF4 | rs12203592 | 6_396321 | 1 | Cutaneous squamous cell carcinoma | 6,579 European ancestry cases, 280,558 European ancestry controls | 2016-07-18 | hair_color_black | 1,048929655 | 0,071533676 | 8,19529E-48 |
| IRF4 | rs12203592 | 6_396321 | 1 | Cutaneous squamous cell carcinoma | 6,579 European ancestry cases, 280,558 European ancestry controls | 2016-07-18 | hair_color_brown | -0,719317249 | 0,065808427 | 1,47913E-27 |

| | | | | | | | | | | |
|------|------------|----------|---|-----------------------------------|-------------------------------------------------------------------|------------|-----------------------------------------|--------------|-------------|-------------|
| IRF4 | rs12203592 | 6_396321 | 1 | Cutaneous squamous cell carcinoma | 6,579 European ancestry cases, 280,558 European ancestry controls | 2016-07-18 | skin_sensitivity_to_sun_binary_12_45 | 0,398137469 | 0,067255208 | 1,95935E-09 |
| IRF4 | rs12203592 | 6_396321 | 1 | Cutaneous squamous cell carcinoma | 6,579 European ancestry cases, 280,558 European ancestry controls | 2016-07-18 | eye_color_phototype_score | -0,6112 | 0,09893 | 7,033E-10 |
| IRF4 | rs12203592 | 6_396321 | 1 | Cutaneous squamous cell carcinoma | 6,579 European ancestry cases, 280,558 European ancestry controls | 2016-07-18 | eye_color | 0,2115 | 0,0315 | 2,102E-11 |
| IRF4 | rs12203592 | 6_396321 | 1 | Cutaneous squamous cell carcinoma | 6,579 European ancestry cases, 280,558 European ancestry controls | 2016-07-18 | freckling_phototype_score | -0,9847 | 0,0645 | 1,851E-51 |
| IRF4 | rs12203592 | 6_396321 | 1 | Cutaneous squamous cell carcinoma | 6,579 European ancestry cases, 280,558 European ancestry controls | 2016-07-18 | freckling | -0,4661 | 0,03429 | 2,434E-41 |
| IRF4 | rs12203592 | 6_396321 | 1 | Cutaneous squamous cell carcinoma | 6,579 European ancestry cases, 280,558 European ancestry controls | 2016-07-18 | hair_color_phototype_score | 1,915 | 0,1185 | 2,789E-57 |
| IRF4 | rs12203592 | 6_396321 | 1 | Cutaneous squamous cell carcinoma | 6,579 European ancestry cases, 280,558 European ancestry controls | 2016-07-18 | hair_color | -0,3258 | 0,0229 | 4,79E-45 |
| IRF4 | rs12203592 | 6_396321 | 1 | Cutaneous squamous cell carcinoma | 6,579 European ancestry cases, 280,558 European ancestry controls | 2016-07-18 | skin_color_phototype_score | -0,8223 | 0,1131 | 4,075E-13 |
| IRF4 | rs12203592 | 6_396321 | 1 | Cutaneous squamous cell carcinoma | 6,579 European ancestry cases, 280,558 European ancestry controls | 2016-07-18 | skin_color | 0,1762 | 0,02289 | 1,652E-14 |
| IRF4 | rs12203592 | 6_396321 | 1 | Cutaneous squamous cell carcinoma | 6,579 European ancestry cases, 280,558 European ancestry controls | 2016-07-18 | skin_sensitivity_to_sun_phototype_score | -0,7418 | 0,1181 | 3,697E-10 |
| IRF4 | rs12203592 | 6_396321 | 1 | Cutaneous squamous cell carcinoma | 6,579 European ancestry cases, 280,558 European ancestry controls | 2016-07-18 | skin_sensitivity_to_sun | -0,2438 | 0,03735 | 7,33E-11 |
| IRF4 | rs12203592 | 6_396321 | 1 | Squamous cell carcinoma | 6,891 European ancestry cases, 54,566 European ancestry controls | 2016-01-29 | eye_color_dark | -0,468244241 | 0,064522426 | 4,58449E-13 |
| IRF4 | rs12203592 | 6_396321 | 1 | Squamous cell carcinoma | 6,891 European ancestry cases, 54,566 European ancestry controls | 2016-01-29 | freckling_binary | 0,73500735 | 0,11281035 | 1,21815E-10 |
| IRF4 | rs12203592 | 6_396321 | 1 | Squamous cell carcinoma | 6,891 European ancestry cases, 54,566 European ancestry controls | 2016-01-29 | hair_color_black | 1,048929655 | 0,071533676 | 8,19529E-48 |

| | | | | | | | | | | |
|------|------------|----------|---|-------------------------|--------------------------------------------------------------------|------------|-----------------------------------------|--------------|-------------|-------------|
| IRF4 | rs12203592 | 6_396321 | 1 | Squamous cell carcinoma | 6,891 European ancestry cases, 54,566 European ancestry controls | 2016-01-29 | hair_color_brown | -0,719317249 | 0,065808427 | 1,47913E-27 |
| IRF4 | rs12203592 | 6_396321 | 1 | Squamous cell carcinoma | 6,891 European ancestry cases, 54,566 European ancestry controls | 2016-01-29 | skin_sensitivity_to_sun_binary_12_45 | 0,398137469 | 0,067255208 | 1,95935E-09 |
| IRF4 | rs12203592 | 6_396321 | 1 | Squamous cell carcinoma | 6,891 European ancestry cases, 54,566 European ancestry controls | 2016-01-29 | eye_color_phototype_score | -0,6112 | 0,09893 | 7,033E-10 |
| IRF4 | rs12203592 | 6_396321 | 1 | Squamous cell carcinoma | 6,891 European ancestry cases, 54,566 European ancestry controls | 2016-01-29 | eye_color | 0,2115 | 0,0315 | 2,102E-11 |
| IRF4 | rs12203592 | 6_396321 | 1 | Squamous cell carcinoma | 6,891 European ancestry cases, 54,566 European ancestry controls | 2016-01-29 | freckling_phototype_score | -0,9847 | 0,0645 | 1,851E-51 |
| IRF4 | rs12203592 | 6_396321 | 1 | Squamous cell carcinoma | 6,891 European ancestry cases, 54,566 European ancestry controls | 2016-01-29 | freckling | -0,4661 | 0,03429 | 2,434E-41 |
| IRF4 | rs12203592 | 6_396321 | 1 | Squamous cell carcinoma | 6,891 European ancestry cases, 54,566 European ancestry controls | 2016-01-29 | hair_color_phototype_score | 1,915 | 0,1185 | 2,789E-57 |
| IRF4 | rs12203592 | 6_396321 | 1 | Squamous cell carcinoma | 6,891 European ancestry cases, 54,566 European ancestry controls | 2016-01-29 | hair_color | -0,3258 | 0,0229 | 4,79E-45 |
| IRF4 | rs12203592 | 6_396321 | 1 | Squamous cell carcinoma | 6,891 European ancestry cases, 54,566 European ancestry controls | 2016-01-29 | skin_color_phototype_score | -0,8223 | 0,1131 | 4,075E-13 |
| IRF4 | rs12203592 | 6_396321 | 1 | Squamous cell carcinoma | 6,891 European ancestry cases, 54,566 European ancestry controls | 2016-01-29 | skin_color | 0,1762 | 0,02289 | 1,652E-14 |
| IRF4 | rs12203592 | 6_396321 | 1 | Squamous cell carcinoma | 6,891 European ancestry cases, 54,566 European ancestry controls | 2016-01-29 | skin_sensitivity_to_sun_phototype_score | -0,7418 | 0,1181 | 3,697E-10 |
| IRF4 | rs12203592 | 6_396321 | 1 | Squamous cell carcinoma | 6,891 European ancestry cases, 54,566 European ancestry controls | 2016-01-29 | skin_sensitivity_to_sun | -0,2438 | 0,03735 | 7,33E-11 |
| IRF4 | rs12203592 | 6_396321 | 1 | Basal cell carcinoma | 12.945 European ancestry cases, 274,252 European ancestry controls | 2016-08-19 | eye_color_dark | -0,468244241 | 0,064522426 | 4,58449E-13 |
| IRF4 | rs12203592 | 6_396321 | 1 | Basal cell carcinoma | 12.945 European ancestry cases, 274,252 European ancestry controls | 2016-08-19 | freckling_binary | 0,73500735 | 0,11281035 | 1,21815E-10 |

| | | | | | | | | | |
|------------------------|------------|----------|------------------------|--------------------------------------------------------------------|------------|-----------------------------------------|--------------|-------------|-------------|
| IRF4 | rs12203592 | 6_396321 | 1 Basal cell carcinoma | 12.945 European ancestry cases, 274,252 European ancestry controls | 2016-08-19 | hair_color_black | 1,048929655 | 0,071533676 | 8,19529E-48 |
| IRF4 | rs12203592 | 6_396321 | 1 Basal cell carcinoma | 12.945 European ancestry cases, 274,252 European ancestry controls | 2016-08-19 | hair_color_brown | -0,719317249 | 0,065808427 | 1,47913E-27 |
| IRF4 | rs12203592 | 6_396321 | 1 Basal cell carcinoma | 12.945 European ancestry cases, 274,252 European ancestry controls | 2016-08-19 | skin_sensitivity_to_sun_binary_12_45 | 0,398137469 | 0,067255208 | 1,95935E-09 |
| IRF4 | rs12203592 | 6_396321 | 1 Basal cell carcinoma | 12.945 European ancestry cases, 274,252 European ancestry controls | 2016-08-19 | eye_color_phototype_score | -0,6112 | 0,09893 | 7,033E-10 |
| IRF4 | rs12203592 | 6_396321 | 1 Basal cell carcinoma | 12.945 European ancestry cases, 274,252 European ancestry controls | 2016-08-19 | eye_color | 0,2115 | 0,0315 | 2,102E-11 |
| IRF4 | rs12203592 | 6_396321 | 1 Basal cell carcinoma | 12.945 European ancestry cases, 274,252 European ancestry controls | 2016-08-19 | freckling_phototype_score | -0,9847 | 0,0645 | 1,851E-51 |
| IRF4 | rs12203592 | 6_396321 | 1 Basal cell carcinoma | 12.945 European ancestry cases, 274,252 European ancestry controls | 2016-08-19 | freckling | -0,4661 | 0,03429 | 2,434E-41 |
| IRF4 | rs12203592 | 6_396321 | 1 Basal cell carcinoma | 12.945 European ancestry cases, 274,252 European ancestry controls | 2016-08-19 | hair_color_phototype_score | 1,915 | 0,1185 | 2,789E-57 |
| IRF4 | rs12203592 | 6_396321 | 1 Basal cell carcinoma | 12.945 European ancestry cases, 274,252 European ancestry controls | 2016-08-19 | hair_color | -0,3258 | 0,0229 | 4,79E-45 |
| IRF4 | rs12203592 | 6_396321 | 1 Basal cell carcinoma | 12.945 European ancestry cases, 274,252 European ancestry controls | 2016-08-19 | skin_color_phototype_score | -0,8223 | 0,1131 | 4,075E-13 |
| IRF4 | rs12203592 | 6_396321 | 1 Basal cell carcinoma | 12.945 European ancestry cases, 274,252 European ancestry controls | 2016-08-19 | skin_color | 0,1762 | 0,02289 | 1,652E-14 |
| IRF4 | rs12203592 | 6_396321 | 1 Basal cell carcinoma | 12.945 European ancestry cases, 274,252 European ancestry controls | 2016-08-19 | skin_sensitivity_to_sun_phototype_score | -0,7418 | 0,1181 | 3,697E-10 |
| IRF4 | rs12203592 | 6_396321 | 1 Basal cell carcinoma | 12.945 European ancestry cases, 274,252 European ancestry controls | 2016-08-19 | skin_sensitivity_to_sun | -0,2438 | 0,03735 | 7,33E-11 |
| IRF4 - LOC105374875 | rs62389423 | 6_421281 | 0,893 Melanoma | 4,842 European ancestry cases, 286,565 European ancestry controls | 2017-02-09 | eye_color_dark | -0,451777911 | 0,079062317 | 1,1123E-08 |

| | | | | | | | | | | |
|------------------------|------------|----------|-------|-------------------------------|----------------------------------------------------------------------------------------------------|------------|----------------------------|--------------|-------------|-------------|
| IRF4 - LOC105374875 | rs62389423 | 6_421281 | 0,893 | Melanoma | 4,842 European ancestry cases, 286,565 European ancestry controls | 2017-02-09 | hair_color_black | 0,936825092 | 0,085412423 | 5,47915E-27 |
| IRF4 - LOC105374875 | rs62389423 | 6_421281 | 0,893 | Melanoma | 4,842 European ancestry cases, 286,565 European ancestry controls | 2017-02-09 | hair_color_brown | -0,68005145 | 0,080087685 | 3,42301E-17 |
| IRF4 - LOC105374875 | rs62389423 | 6_421281 | 0,893 | Melanoma | 4,842 European ancestry cases, 286,565 European ancestry controls | 2017-02-09 | eye_color | 0,2187 | 0,03909 | 2,34E-08 |
| IRF4 - LOC105374875 | rs62389423 | 6_421281 | 0,893 | Melanoma | 4,842 European ancestry cases, 286,565 European ancestry controls | 2017-02-09 | freckling_phototype_score | -0,9036 | 0,08017 | 4,459E-29 |
| IRF4 - LOC105374875 | rs62389423 | 6_421281 | 0,893 | Melanoma | 4,842 European ancestry cases, 286,565 European ancestry controls | 2017-02-09 | freckling | -0,4305 | 0,04299 | 2,335E-23 |
| IRF4 - LOC105374875 | rs62389423 | 6_421281 | 0,893 | Melanoma | 4,842 European ancestry cases, 286,565 European ancestry controls | 2017-02-09 | hair_color_phototype_score | 1,769 | 0,1471 | 8,411E-33 |
| IRF4 - LOC105374875 | rs62389423 | 6_421281 | 0,893 | Melanoma | 4,842 European ancestry cases, 286,565 European ancestry controls | 2017-02-09 | hair_color | -0,3002 | 0,02857 | 1,606E-25 |
| IRF4 - LOC105374875 | rs62389424 | 6_422631 | 0,882 | Blond vs non-blond hair color | 2,888 European ancestry blond hair individuals, 4,203 European ancestry non-blond hair individuals | 2015-07-13 | freckling_binary | 0,775508487 | 0,132279769 | 6,35784E-09 |
| IRF4 - LOC105374875 | rs62389424 | 6_422631 | 0,882 | Blond vs non-blond hair color | 2,888 European ancestry blond hair individuals, 4,203 European ancestry non-blond hair individuals | 2015-07-13 | hair_color_black | 0,920801191 | 0,079554691 | 4,22789E-30 |
| IRF4 - LOC105374875 | rs62389424 | 6_422631 | 0,882 | Blond vs non-blond hair color | 2,888 European ancestry blond hair individuals, 4,203 European ancestry non-blond hair individuals | 2015-07-13 | hair_color_brown | -0,635446634 | 0,074245741 | 1,62433E-17 |
| IRF4 - LOC105374875 | rs62389424 | 6_422631 | 0,882 | Blond vs non-blond hair color | 2,888 European ancestry blond hair individuals, 4,203 European ancestry non-blond hair individuals | 2015-07-13 | freckling_phototype_score | -0,9263 | 0,07383 | 1,571E-35 |
| IRF4 - LOC105374875 | rs62389424 | 6_422631 | 0,882 | Blond vs non-blond hair color | 2,888 European ancestry blond hair individuals, 4,203 European ancestry non-blond hair individuals | 2015-07-13 | freckling | -0,4421 | 0,03936 | 6,622E-29 |

| | | | | | | | | | | |
|------------------------|------------|----------|-------|-----------------------------------|-------------------------------------------------------------------------------------------------------------|------------|--------------------------------|--------------|-------------|-------------|
| IRF4 - LOC105374875 | rs62389424 | 6_422631 | 0,882 | Blond vs non-blond hair color | 2,888 European ancestry blond hair individuals, 4,203 European ancestry non-blond hair individuals | 2015-07-13 | hair_color_phototype_ score | 1,702 | 0,1357 | 1,627E-35 |
| IRF4 - LOC105374875 | rs62389424 | 6_422631 | 0,882 | Blond vs non-blond hair color | 2,888 European ancestry blond hair individuals, 4,203 European ancestry non-blond hair individuals | 2015-07-13 | hair_color | -0,2897 | 0,02618 | 3,985E-28 |
| IRF4 - LOC105374875 | rs62389424 | 6_422631 | 0,882 | Blond vs non-blond hair color | 2,888 European ancestry blond hair individuals, 4,203 European ancestry non-blond hair individuals | 2015-07-13 | skin_sensitivity_to_su n | -0,2338 | 0,04254 | 4,055E-08 |
| IRF4 - LOC105374875 | rs62389424 | 6_422631 | 0,882 | Brown vs. non-brown hair color | 3,826 European ancestry brown hair individuals, 3,265 European ancestry non-brown hair individuals | 2015-07-13 | freckling_binary | 0,775508487 | 0,132279769 | 6,35784E-09 |
| IRF4 - LOC105374875 | rs62389424 | 6_422631 | 0,882 | Brown vs. non-brown hair color | 3,826 European ancestry brown hair individuals, 3,265 European ancestry non-brown hair individuals | 2015-07-13 | hair_color_black | 0,920801191 | 0,079554691 | 4,22789E-30 |
| IRF4 - LOC105374875 | rs62389424 | 6_422631 | 0,882 | Brown vs. non-brown hair color | 3,826 European ancestry brown hair individuals, 3,265 European ancestry non-brown hair individuals | 2015-07-13 | hair_color_brown | -0,635446634 | 0,074245741 | 1,62433E-17 |
| IRF4 - LOC105374875 | rs62389424 | 6_422631 | 0,882 | Brown vs. non-brown hair color | 3,826 European ancestry brown hair individuals, 3,265 European ancestry non-brown hair individuals | 2015-07-13 | freckling_phototype_s core | -0,9263 | 0,07383 | 1,571E-35 |
| IRF4 - LOC105374875 | rs62389424 | 6_422631 | 0,882 | Brown vs. non-brown hair color | 3,826 European ancestry brown hair individuals, 3,265 European ancestry non-brown hair individuals | 2015-07-13 | freckling | -0,4421 | 0,03936 | 6,622E-29 |
| IRF4 - LOC105374875 | rs62389424 | 6_422631 | 0,882 | Brown vs. non-brown hair color | 3,826 European ancestry brown hair individuals, 3,265 European ancestry non-brown hair individuals | 2015-07-13 | hair_color_phototype_ score | 1,702 | 0,1357 | 1,627E-35 |
| IRF4 - LOC105374875 | rs62389424 | 6_422631 | 0,882 | Brown vs. non-brown hair color | 3,826 European ancestry brown hair individuals, 3,265 European ancestry non-brown hair individuals | 2015-07-13 | hair_color | -0,2897 | 0,02618 | 3,985E-28 |
| IRF4 - LOC105374875 | rs62389424 | 6_422631 | 0,882 | Brown vs. non-brown hair color | 3,826 European ancestry brown hair individuals, 3,265 European ancestry non-brown hair individuals | 2015-07-13 | skin_sensitivity_to_su n | -0,2338 | 0,04254 | 4,055E-08 |

| | | | | | | | | | | |
|------------------------|------------|----------|-------|--------------------------------|--------------------------------------------------------------------------------------------------------|------------|--------------------------------|--------------|-------------|-------------|
| IRF4 - LOC105374875 | rs62389424 | 6_422631 | 0,882 | Light vs. dark hair color | 3,069 European ancestry light hair individuals, 4,022 European ancestry dark hair individuals | 2015-07-13 | freckling_binary | 0,775508487 | 0,132279769 | 6,35784E-09 |
| IRF4 - LOC105374875 | rs62389424 | 6_422631 | 0,882 | Light vs. dark hair color | 3,069 European ancestry light hair individuals, 4,022 European ancestry dark hair individuals | 2015-07-13 | hair_color_black | 0,920801191 | 0,079554691 | 4,22789E-30 |
| IRF4 - LOC105374875 | rs62389424 | 6_422631 | 0,882 | Light vs. dark hair color | 3,069 European ancestry light hair individuals, 4,022 European ancestry dark hair individuals | 2015-07-13 | hair_color_brown | -0,635446634 | 0,074245741 | 1,62433E-17 |
| IRF4 - LOC105374875 | rs62389424 | 6_422631 | 0,882 | Light vs. dark hair color | 3,069 European ancestry light hair individuals, 4,022 European ancestry dark hair individuals | 2015-07-13 | freckling_phototype_s core | -0,9263 | 0,07383 | 1,571E-35 |
| IRF4 - LOC105374875 | rs62389424 | 6_422631 | 0,882 | Light vs. dark hair color | 3,069 European ancestry light hair individuals, 4,022 European ancestry dark hair individuals | 2015-07-13 | freckling | -0,4421 | 0,03936 | 6,622E-29 |
| IRF4 - LOC105374875 | rs62389424 | 6_422631 | 0,882 | Light vs. dark hair color | 3,069 European ancestry light hair individuals, 4,022 European ancestry dark hair individuals | 2015-07-13 | hair_color_phototype_ score | 1,702 | 0,1357 | 1,627E-35 |
| IRF4 - LOC105374875 | rs62389424 | 6_422631 | 0,882 | Light vs. dark hair color | 3,069 European ancestry light hair individuals, 4,022 European ancestry dark hair individuals | 2015-07-13 | hair_color | -0,2897 | 0,02618 | 3,985E-28 |
| IRF4 - LOC105374875 | rs62389424 | 6_422631 | 0,882 | Light vs. dark hair color | 3,069 European ancestry light hair individuals, 4,022 European ancestry dark hair individuals | 2015-07-13 | skin_sensitivity_to_su n | -0,2338 | 0,04254 | 4,055E-08 |
| IRF4 - LOC105374875 | rs62389424 | 6_422631 | 0,882 | Lung cancer in ever smokers | 23,223 European ancestry cases, 16,964 European ancestry controls | 2017-06-12 | freckling_binary | 0,775508487 | 0,132279769 | 6,35784E-09 |
| IRF4 - LOC105374875 | rs62389424 | 6_422631 | 0,882 | Lung cancer in ever smokers | 23,223 European ancestry cases, 16,964 European ancestry controls | 2017-06-12 | hair_color_black | 0,920801191 | 0,079554691 | 4,22789E-30 |
| IRF4 - LOC105374875 | rs62389424 | 6_422631 | 0,882 | Lung cancer in ever smokers | 23,223 European ancestry cases, 16,964 European ancestry controls | 2017-06-12 | hair_color_brown | -0,635446634 | 0,074245741 | 1,62433E-17 |
| IRF4 - LOC105374875 | rs62389424 | 6_422631 | 0,882 | Lung cancer in ever smokers | 23,223 European ancestry cases, 16,964 European ancestry controls | 2017-06-12 | freckling_phototype_s core | -0,9263 | 0,07383 | 1,571E-35 |

| | | | | | | | | | | |
|------------------------|------------|----------|-------|-----------------------------|-------------------------------------------------------------------|------------|----------------------------|--------------|-------------|-------------|
| IRF4 - LOC105374875 | rs62389424 | 6_422631 | 0,882 | Lung cancer in ever smokers | 23,223 European ancestry cases, 16,964 European ancestry controls | 2017-06-12 | freckling | -0,4421 | 0,03936 | 6,622E-29 |
| IRF4 - LOC105374875 | rs62389424 | 6_422631 | 0,882 | Lung cancer in ever smokers | 23,223 European ancestry cases, 16,964 European ancestry controls | 2017-06-12 | hair_color_phototype_score | 1,702 | 0,1357 | 1,627E-35 |
| IRF4 - LOC105374875 | rs62389424 | 6_422631 | 0,882 | Lung cancer in ever smokers | 23,223 European ancestry cases, 16,964 European ancestry controls | 2017-06-12 | hair_color | -0,2897 | 0,02618 | 3,985E-28 |
| IRF4 - LOC105374875 | rs62389424 | 6_422631 | 0,882 | Lung cancer in ever smokers | 23,223 European ancestry cases, 16,964 European ancestry controls | 2017-06-12 | skin_sensitivity_to_sun | -0,2338 | 0,04254 | 4,055E-08 |
| LOC105374875 | rs12202284 | 6_471136 | 0,9 | Non-melanoma skin cancer | 6,747 European ancestry individuals | 2013-04-01 | hair_color_black | 0,431355633 | 0,068004509 | 2,3713E-10 |
| LOC105374875 | rs12202284 | 6_471136 | 0,9 | Non-melanoma skin cancer | 6,747 European ancestry individuals | 2013-04-01 | hair_color_phototype_score | 0,7241 | 0,1127 | 1,444E-10 |
| LOC105374875 | rs12202284 | 6_471136 | 0,9 | Non-melanoma skin cancer | 6,747 European ancestry individuals | 2013-04-01 | hair_color | -0,1197 | 0,02169 | 3,565E-08 |
| LOC105374875 | rs12210050 | 6_475489 | 1 | Tanning | 2,287 European ancestry female individuals | 2009-04-02 | hair_color_black | 0,572217195 | 0,07357382 | 1,40445E-14 |
| LOC105374875 | rs12210050 | 6_475489 | 1 | Tanning | 2,287 European ancestry female individuals | 2009-04-02 | hair_color_brown | -0,377555682 | 0,068373054 | 3,02971E-08 |
| LOC105374875 | rs12210050 | 6_475489 | 1 | Tanning | 2,287 European ancestry female individuals | 2009-04-02 | freckling_phototype_score | -0,4407 | 0,06748 | 7,24E-11 |
| LOC105374875 | rs12210050 | 6_475489 | 1 | Tanning | 2,287 European ancestry female individuals | 2009-04-02 | freckling | -0,2144 | 0,03573 | 2,097E-09 |
| LOC105374875 | rs12210050 | 6_475489 | 1 | Tanning | 2,287 European ancestry female individuals | 2009-04-02 | hair_color_phototype_score | 1,025 | 0,1239 | 1,674E-16 |
| LOC105374875 | rs12210050 | 6_475489 | 1 | Tanning | 2,287 European ancestry female individuals | 2009-04-02 | hair_color | -0,1767 | 0,02383 | 1,42E-13 |
| LOC105374875 | rs12210050 | 6_475489 | 1 | Basal cell carcinoma | 2,045 European ancestry cases, 6,013 European ancestry controls | 2011-06-23 | hair_color_black | 0,572217195 | 0,07357382 | 1,40445E-14 |
| LOC105374875 | rs12210050 | 6_475489 | 1 | Basal cell carcinoma | 2,045 European ancestry cases, 6,013 European ancestry controls | 2011-06-23 | hair_color_brown | -0,377555682 | 0,068373054 | 3,02971E-08 |
| LOC105374875 | rs12210050 | 6_475489 | 1 | Basal cell carcinoma | 2,045 European ancestry cases, 6,013 European ancestry controls | 2011-06-23 | freckling_phototype_score | -0,4407 | 0,06748 | 7,24E-11 |
| LOC105374875 | rs12210050 | 6_475489 | 1 | Basal cell carcinoma | 2,045 European ancestry cases, 6,013 European ancestry controls | 2011-06-23 | freckling | -0,2144 | 0,03573 | 2,097E-09 |

| | | | | | | | | | | |
|--------------|------------|----------|---|----------------------|----------------------------------------------------------------------------------------|------------|----------------------------|--------------|-------------|-------------|
| LOC105374875 | rs12210050 | 6_475489 | 1 | Basal cell carcinoma | 2,045 European ancestry cases, 6,013 European ancestry controls | 2011-06-23 | hair_color_phototype_score | 1,025 | 0,1239 | 1,674E-16 |
| LOC105374875 | rs12210050 | 6_475489 | 1 | Basal cell carcinoma | 2,045 European ancestry cases, 6,013 European ancestry controls | 2011-06-23 | hair_color | -0,1767 | 0,02383 | 1,42E-13 |
| LOC105374875 | rs12210050 | 6_475489 | 1 | Schizophrenia | 1,218 European ancestry cases, 990 European ancestry controls, 139 cases, 114 controls | 2012-09-01 | hair_color_black | 0,572217195 | 0,07357382 | 1,40445E-14 |
| LOC105374875 | rs12210050 | 6_475489 | 1 | Schizophrenia | 1,218 European ancestry cases, 990 European ancestry controls, 139 cases, 114 controls | 2012-09-01 | hair_color_brown | -0,377555682 | 0,068373054 | 3,02971E-08 |
| LOC105374875 | rs12210050 | 6_475489 | 1 | Schizophrenia | 1,218 European ancestry cases, 990 European ancestry controls, 139 cases, 114 controls | 2012-09-01 | freckling_phototype_score | -0,4407 | 0,06748 | 7,24E-11 |
| LOC105374875 | rs12210050 | 6_475489 | 1 | Schizophrenia | 1,218 European ancestry cases, 990 European ancestry controls, 139 cases, 114 controls | 2012-09-01 | freckling | -0,2144 | 0,03573 | 2,097E-09 |
| LOC105374875 | rs12210050 | 6_475489 | 1 | Schizophrenia | 1,218 European ancestry cases, 990 European ancestry controls, 139 cases, 114 controls | 2012-09-01 | hair_color_phototype_score | 1,025 | 0,1239 | 1,674E-16 |
| LOC105374875 | rs12210050 | 6_475489 | 1 | Schizophrenia | 1,218 European ancestry cases, 990 European ancestry controls, 139 cases, 114 controls | 2012-09-01 | hair_color | -0,1767 | 0,02383 | 1,42E-13 |
| LOC105374875 | rs12210050 | 6_475489 | 1 | Schizophrenia | 1,218 European ancestry cases, 990 European ancestry controls, 139 cases, 114 controls | 2012-09-01 | hair_color_black | 0,572217195 | 0,07357382 | 1,40445E-14 |
| LOC105374875 | rs12210050 | 6_475489 | 1 | Schizophrenia | 1,218 European ancestry cases, 990 European ancestry controls, 139 cases, 114 controls | 2012-09-01 | hair_color_brown | -0,377555682 | 0,068373054 | 3,02971E-08 |
| LOC105374875 | rs12210050 | 6_475489 | 1 | Schizophrenia | 1,218 European ancestry cases, 990 European ancestry controls, 139 cases, 114 controls | 2012-09-01 | freckling_phototype_score | -0,4407 | 0,06748 | 7,24E-11 |

| | | | | | | | | | | |
|---------------------|------------|------------|-------|-----------------------------------|----------------------------------------------------------------------------------------|------------|----------------------------|--------------|-------------|-------------|
| LOC105374875 | rs12210050 | 6_475489 | 1 | Schizophrenia | 1,218 European ancestry cases, 990 European ancestry controls, 139 cases, 114 controls | 2012-09-01 | freckling | -0,2144 | 0,03573 | 2,097E-09 |
| LOC105374875 | rs12210050 | 6_475489 | 1 | Schizophrenia | 1,218 European ancestry cases, 990 European ancestry controls, 139 cases, 114 controls | 2012-09-01 | hair_color_phototype_score | 1,025 | 0,1239 | 1,674E-16 |
| LOC105374875 | rs12210050 | 6_475489 | 1 | Schizophrenia | 1,218 European ancestry cases, 990 European ancestry controls, 139 cases, 114 controls | 2012-09-01 | hair_color | -0,1767 | 0,02383 | 1,42E-13 |
| LOC105374875 | rs12210050 | 6_475489 | 1 | Basal cell carcinoma | 12.945 European ancestry cases, 274,252 European ancestry controls | 2016-08-19 | hair_color_black | 0,572217195 | 0,07357382 | 1,40445E-14 |
| LOC105374875 | rs12210050 | 6_475489 | 1 | Basal cell carcinoma | 12.945 European ancestry cases, 274,252 European ancestry controls | 2016-08-19 | hair_color_brown | -0,377555682 | 0,068373054 | 3,02971E-08 |
| LOC105374875 | rs12210050 | 6_475489 | 1 | Basal cell carcinoma | 12.945 European ancestry cases, 274,252 European ancestry controls | 2016-08-19 | freckling_phototype_score | -0,4407 | 0,06748 | 7,24E-11 |
| LOC105374875 | rs12210050 | 6_475489 | 1 | Basal cell carcinoma | 12.945 European ancestry cases, 274,252 European ancestry controls | 2016-08-19 | freckling | -0,2144 | 0,03573 | 2,097E-09 |
| LOC105374875 | rs12210050 | 6_475489 | 1 | Basal cell carcinoma | 12.945 European ancestry cases, 274,252 European ancestry controls | 2016-08-19 | hair_color_phototype_score | 1,025 | 0,1239 | 1,674E-16 |
| LOC105374875 | rs12210050 | 6_475489 | 1 | Basal cell carcinoma | 12.945 European ancestry cases, 274,252 European ancestry controls | 2016-08-19 | hair_color | -0,1767 | 0,02383 | 1,42E-13 |
| RNU2-47P - TYRP1 | rs1408799 | 9_12672097 | 1 | Blue vs. green eyes | 5,130 individuals | 2008-05-18 | eye_color_phototype_score | 0,4536 | 0,07134 | 2,228E-10 |
| RNU2-47P - TYRP1 | rs1408799 | 9_12672097 | 1 | Blue vs. green eyes | 5,130 individuals | 2008-05-18 | eye_color | -0,1366 | 0,02274 | 2,024E-09 |
| RNU2-47P - TYRP1 | rs1408799 | 9_12672097 | 1 | Eye color | 3871 European ancestry individuals | 2013-04-01 | eye_color_phototype_score | 0,4536 | 0,07134 | 2,228E-10 |
| RNU2-47P - TYRP1 | rs1408799 | 9_12672097 | 1 | Eye color | 3871 European ancestry individuals | 2013-04-01 | eye_color | -0,1366 | 0,02274 | 2,024E-09 |
| BNC2 - LOC105375983 | rs10810657 | 9_16884588 | 0,991 | Cutaneous squamous cell carcinoma | 6,579 European ancestry cases, 280,558 European ancestry controls | 2016-07-18 | skin_color | -0,08899 | 0,0161 | 3,437E-08 |
| BNC2 - LOC105375983 | rs10810657 | 9_16884588 | 0,991 | Basal cell carcinoma | 12.945 European ancestry cases, 274,252 European ancestry controls | 2016-08-19 | skin_color | -0,08899 | 0,0161 | 3,437E-08 |

| | | | | | | | | | | |
|---------------|------------|-------------|-------|------------------------------|------------|----------------------|----------|---------|-----------|--|
| TYR, | | | | 363 South Asian ancestry low | | | | | | |
| LOC107984363 | rs1042602 | 11_89178528 | 1 | maxL* individuals, 374 South | 2007-10-15 | skin_color | 0,0866 | 0,01567 | 3,408E-08 | |
| LOC107984363 | rs1042602 | 11_89178528 | 1 | Asian ancestry high maxL* | 2007-10-21 | skin_color | 0,0866 | 0,01567 | 3,408E-08 | |
| LOC107984363, | | | | 2,986 individuals | | | | | | |
| TYR | rs1126809 | 11_89284793 | 0,993 | 9,678 European ancestry | 2013-04-01 | phototype_score_cate | | | | |
| LOC107984363, | | | | individuals | | gorical | -0,08428 | 0,01535 | 4,176E-08 | |
| TYR | rs1126809 | 11_89284793 | 0,993 | 9,678 European ancestry | 2013-04-01 | phototype_score | -1,672 | 0,2827 | 3,533E-09 | |
| LOC107984363, | | | | individuals | | phototype_score_cate | | | | |
| TYR | rs1126809 | 11_89284793 | 0,993 | 9,283 European ancestry | 2013-04-01 | gorical | -0,08428 | 0,01535 | 4,176E-08 | |
| LOC107984363, | | | | individuals | | | | | | |
| TYR | rs1126809 | 11_89284793 | 0,993 | 9,283 European ancestry | 2013-04-01 | phototype_score | -1,672 | 0,2827 | 3,533E-09 | |
| LOC107984363, | | | | individuals | | | | | | |
| TYR | rs1126809 | 11_89284793 | 0,993 | Cutaneous squamous cell | 2016-07-18 | phototype_score_cate | -0,08428 | 0,01535 | 4,176E-08 | |
| LOC107984363, | | | | carcinoma | | gorical | | | | |
| TYR | rs1126809 | 11_89284793 | 0,993 | 6,579 European ancestry | 2016-07-18 | phototype_score | -1,672 | 0,2827 | 3,533E-09 | |
| LOC107984363, | | | | cases, 280,558 European | | | | | | |
| TYR | rs1126809 | 11_89284793 | 0,993 | ancestry controls | 2016-07-18 | phototype_score_cate | -0,08428 | 0,01535 | 4,176E-08 | |
| LOC107984363, | | | | 6,579 European ancestry | | | | | | |
| TYR | rs1126809 | 11_89284793 | 0,993 | cases, 280,558 European | 2016-07-18 | phototype_score | -1,672 | 0,2827 | 3,533E-09 | |
| LOC107984363, | | | | ancestry controls | | | | | | |
| TYR | rs1126809 | 11_89284793 | 0,993 | 6,891 European ancestry | 2016-01-29 | phototype_score_cate | -0,08428 | 0,01535 | 4,176E-08 | |
| LOC107984363, | | | | cases, 54,566 European | | gorical | | | | |
| TYR | rs1126809 | 11_89284793 | 0,993 | ancestry controls | 2016-01-29 | phototype_score | -1,672 | 0,2827 | 3,533E-09 | |
| LOC107984363, | | | | 6,891 European ancestry | | | | | | |
| TYR | rs1126809 | 11_89284793 | 0,993 | cases, 54,566 European | 2016-01-29 | phototype_score_cate | -0,08428 | 0,01535 | 4,176E-08 | |
| LOC107984363, | | | | ancestry controls | | gorical | | | | |
| TYR | rs1126809 | 11_89284793 | 0,993 | 12.945 European ancestry | 2016-08-19 | phototype_score_cate | -0,08428 | 0,01535 | 4,176E-08 | |
| LOC107984363, | | | | cases, 274,252 European | | gorical | | | | |
| TYR | rs1126809 | 11_89284793 | 0,993 | ancestry controls | 2016-08-19 | phototype_score | -1,672 | 0,2827 | 3,533E-09 | |
| LOC105370627 | rs12896399 | 14_92307319 | 1 | 12.945 European ancestry | | | | | | |
| LOC105370627 | rs12896399 | 14_92307319 | 1 | cases, 274,252 European | | | | | | |
| LOC105370627 | rs12896399 | 14_92307319 | 1 | ancestry controls | | | | | | |
| LOC105370627 | rs12896399 | 14_92307319 | 1 | 2,986 European ancestry | | | | | | |
| LOC105370627 | rs12896399 | 14_92307319 | 1 | individuals | 2007-10-21 | hair_color | 0,09375 | 0,01681 | 2,566E-08 | |
| LOC105370627 | rs12896399 | 14_92307319 | 1 | 2,986 individuals | 2007-10-21 | hair_color | 0,09375 | 0,01681 | 2,566E-08 | |
| LOC105370627 | rs12896399 | 14_92307319 | 1 | 2,287 European ancestry | 2008-05-16 | hair_color | 0,09375 | 0,01681 | 2,566E-08 | |
| LOC105370627 | rs12896399 | 14_92307319 | 1 | female individuals | 2010-06-24 | hair_color | 0,09375 | 0,01681 | 2,566E-08 | |
| LOC105370627 | rs12896399 | 14_92307319 | 1 | 9,126 European ancestry | 2010-06-24 | hair_color | 0,09375 | 0,01681 | 2,566E-08 | |
| LOC105370627 | rs12896399 | 14_92307319 | 1 | individuals | 2010-06-24 | hair_color | 0,09375 | 0,01681 | 2,566E-08 | |
| LOC105370627 | rs12896399 | 14_92307319 | 1 | 9,126 European ancestry | 2010-06-24 | hair_color | 0,09375 | 0,01681 | 2,566E-08 | |
| LOC105370627 | rs12896399 | 14_92307319 | 1 | individuals | 2010-06-24 | hair_color | 0,09375 | 0,01681 | 2,566E-08 | |
| LOC105370627 | rs12896399 | 14_92307319 | 1 | 9,126 European ancestry | 2010-06-24 | hair_color | 0,09375 | 0,01681 | 2,566E-08 | |
| LOC105370627 | rs12896399 | 14_92307319 | 1 | individuals | 2010-06-24 | hair_color | 0,09375 | 0,01681 | 2,566E-08 | |
| LOC105370627 | rs12896399 | 14_92307319 | 1 | 7,070 European ancestry | 2013-04-01 | hair_color | 0,09375 | 0,01681 | 2,566E-08 | |
| LOC105370627 | rs12896399 | 14_92307319 | 1 | individuals | 2013-04-01 | hair_color | 0,09375 | 0,01681 | 2,566E-08 | |

| | | | | | | | | | | |
|--------------|------------|-------------|---|-----------------------------------|-------------------------------------------------------------------|------------|-----------------------------|--------------|-------------|-------------|
| LOC105370627 | rs12896399 | 14_92307319 | 1 | Eye color | 3871 European ancestry individuals | 2013-04-01 | hair_color | 0,09375 | 0,01681 | 2,566E-08 |
| LOC105370627 | rs12896399 | 14_92307319 | 1 | Eye color | 3871 European ancestry individuals | 2013-04-01 | hair_color | 0,09375 | 0,01681 | 2,566E-08 |
| OCA2 | rs1800407 | 15_27985172 | 1 | Cutaneous squamous cell carcinoma | 6,579 European ancestry cases, 280,558 European ancestry controls | 2016-07-18 | phototype_score | -2,266 | 0,3985 | 1,375E-08 |
| OCA2 | rs1800407 | 15_27985172 | 1 | Cutaneous squamous cell carcinoma | 6,579 European ancestry cases, 280,558 European ancestry controls | 2016-07-18 | skin_color_phototype_score | -0,8066 | 0,1276 | 2,853E-10 |
| OCA2 | rs1800407 | 15_27985172 | 1 | Cutaneous squamous cell carcinoma | 6,579 European ancestry cases, 280,558 European ancestry controls | 2016-07-18 | skin_color | 0,1713 | 0,02585 | 3,835E-11 |
| OCA2 | rs1800407 | 15_27985172 | 1 | Cutaneous squamous cell carcinoma | 6,579 European ancestry cases, 280,558 European ancestry controls | 2016-07-18 | skin_sensitivity_to_sun | -0,2347 | 0,0422 | 2,815E-08 |
| OCA2 | rs11855019 | 15_28090674 | 1 | Black vs. blond hair color | 2,287 European ancestry female individuals | 2008-05-16 | eye_color_dark | 1,449213512 | 0,071169519 | 1,20605E-98 |
| OCA2 | rs11855019 | 15_28090674 | 1 | Black vs. blond hair color | 2,287 European ancestry female individuals | 2008-05-16 | hair_color_black | 0,328582781 | 0,056808016 | 5,99333E-09 |
| OCA2 | rs11855019 | 15_28090674 | 1 | Black vs. blond hair color | 2,287 European ancestry female individuals | 2008-05-16 | hair_color_blond | -1,116404666 | 0,137775182 | 1,38831E-15 |
| OCA2 | rs11855019 | 15_28090674 | 1 | Black vs. blond hair color | 2,287 European ancestry female individuals | 2008-05-16 | hair_color_light | -0,936645714 | 0,12180143 | 3,72665E-14 |
| OCA2 | rs11855019 | 15_28090674 | 1 | Black vs. blond hair color | 2,287 European ancestry female individuals | 2008-05-16 | eye_color_phototype_score | 1,67 | 0,07176 | 9,322E-114 |
| OCA2 | rs11855019 | 15_28090674 | 1 | Black vs. blond hair color | 2,287 European ancestry female individuals | 2008-05-16 | eye_color | -0,5488 | 0,02278 | 2,373E-121 |
| OCA2 | rs11855019 | 15_28090674 | 1 | Black vs. blond hair color | 2,287 European ancestry female individuals | 2008-05-16 | hair_color_phototype_score | 0,8485 | 0,09163 | 2,993E-20 |
| OCA2 | rs11855019 | 15_28090674 | 1 | Black vs. blond hair color | 2,287 European ancestry female individuals | 2008-05-16 | hair_color | -0,1832 | 0,01756 | 3,272E-25 |
| OCA2 | rs11855019 | 15_28090674 | 1 | Black vs. blond hair color | 2,287 European ancestry female individuals | 2008-05-16 | phototype_score_categorical | 0,1745 | 0,01441 | 2,623E-33 |
| OCA2 | rs11855019 | 15_28090674 | 1 | Black vs. blond hair color | 2,287 European ancestry female individuals | 2008-05-16 | phototype_score | 3,447 | 0,2649 | 4,412E-38 |
| OCA2 | rs11855019 | 15_28090674 | 1 | Black vs. blond hair color | 2,287 European ancestry female individuals | 2008-05-16 | skin_color_phototype_score | 0,5666 | 0,08606 | 5,045E-11 |
| OCA2 | rs11855019 | 15_28090674 | 1 | Black vs. blond hair color | 2,287 European ancestry female individuals | 2008-05-16 | skin_color | -0,1163 | 0,01743 | 2,785E-11 |
| OCA2 | rs11855019 | 15_28090674 | 1 | Black vs. red hair color | 2,287 European ancestry female individuals | 2008-05-16 | eye_color_dark | 1,449213512 | 0,071169519 | 1,20605E-98 |
| OCA2 | rs11855019 | 15_28090674 | 1 | Black vs. red hair color | 2,287 European ancestry female individuals | 2008-05-16 | hair_color_black | 0,328582781 | 0,056808016 | 5,99333E-09 |

| | | | | | | | | | | |
|------|------------|-------------|---|------------------------------|-------------------------------------------------------------------|------------|-----------------------------|--------------|-------------|-------------|
| OCA2 | rs11855019 | 15_28090674 | 1 | Black vs. red hair color | 2,287 European ancestry female individuals | 2008-05-16 | hair_color_blonde | -1,116404666 | 0,137775182 | 1,38831E-15 |
| OCA2 | rs11855019 | 15_28090674 | 1 | Black vs. red hair color | 2,287 European ancestry female individuals | 2008-05-16 | hair_color_light | -0,936645714 | 0,12180143 | 3,72665E-14 |
| OCA2 | rs11855019 | 15_28090674 | 1 | Black vs. red hair color | 2,287 European ancestry female individuals | 2008-05-16 | eye_color_phototype_score | 1,67 | 0,07176 | 9,322E-114 |
| OCA2 | rs11855019 | 15_28090674 | 1 | Black vs. red hair color | 2,287 European ancestry female individuals | 2008-05-16 | eye_color | -0,5488 | 0,02278 | 2,373E-121 |
| OCA2 | rs11855019 | 15_28090674 | 1 | Black vs. red hair color | 2,287 European ancestry female individuals | 2008-05-16 | hair_color_phototype_score | 0,8485 | 0,09163 | 2,993E-20 |
| OCA2 | rs11855019 | 15_28090674 | 1 | Black vs. red hair color | 2,287 European ancestry female individuals | 2008-05-16 | hair_color | -0,1832 | 0,01756 | 3,272E-25 |
| OCA2 | rs11855019 | 15_28090674 | 1 | Black vs. red hair color | 2,287 European ancestry female individuals | 2008-05-16 | phototype_score_categorical | 0,1745 | 0,01441 | 2,623E-33 |
| OCA2 | rs11855019 | 15_28090674 | 1 | Black vs. red hair color | 2,287 European ancestry female individuals | 2008-05-16 | phototype_score | 3,447 | 0,2649 | 4,412E-38 |
| OCA2 | rs11855019 | 15_28090674 | 1 | Black vs. red hair color | 2,287 European ancestry female individuals | 2008-05-16 | skin_color_phototype_score | 0,5666 | 0,08606 | 5,045E-11 |
| OCA2 | rs11855019 | 15_28090674 | 1 | Black vs. red hair color | 2,287 European ancestry female individuals | 2008-05-16 | skin_color | -0,1163 | 0,01743 | 2,785E-11 |
| OCA2 | rs4778138 | 15_28090674 | 1 | Cutaneous malignant melanoma | 12,874 European ancestry cases, 23,203 European ancestry controls | 2015-08-03 | eye_color_dark | 1,449213512 | 0,071169519 | 1,20605E-98 |
| OCA2 | rs4778138 | 15_28090674 | 1 | Cutaneous malignant melanoma | 12,874 European ancestry cases, 23,203 European ancestry controls | 2015-08-03 | hair_color_black | 0,328582781 | 0,056808016 | 5,99333E-09 |
| OCA2 | rs4778138 | 15_28090674 | 1 | Cutaneous malignant melanoma | 12,874 European ancestry cases, 23,203 European ancestry controls | 2015-08-03 | hair_color_blonde | -1,116404666 | 0,137775182 | 1,38831E-15 |
| OCA2 | rs4778138 | 15_28090674 | 1 | Cutaneous malignant melanoma | 12,874 European ancestry cases, 23,203 European ancestry controls | 2015-08-03 | hair_color_light | -0,936645714 | 0,12180143 | 3,72665E-14 |
| OCA2 | rs4778138 | 15_28090674 | 1 | Cutaneous malignant melanoma | 12,874 European ancestry cases, 23,203 European ancestry controls | 2015-08-03 | eye_color_phototype_score | 1,67 | 0,07176 | 9,322E-114 |
| OCA2 | rs4778138 | 15_28090674 | 1 | Cutaneous malignant melanoma | 12,874 European ancestry cases, 23,203 European ancestry controls | 2015-08-03 | eye_color | -0,5488 | 0,02278 | 2,373E-121 |
| OCA2 | rs4778138 | 15_28090674 | 1 | Cutaneous malignant melanoma | 12,874 European ancestry cases, 23,203 European ancestry controls | 2015-08-03 | hair_color_phototype_score | 0,8485 | 0,09163 | 2,993E-20 |
| OCA2 | rs4778138 | 15_28090674 | 1 | Cutaneous malignant melanoma | 12,874 European ancestry cases, 23,203 European ancestry controls | 2015-08-03 | hair_color | -0,1832 | 0,01756 | 3,272E-25 |

| | | | | | | | | | |
|------|-----------|-------------|--------------------------------|-------------------------------------------------------------------|------------|-----------------------------|--------------|-------------|-------------|
| OCA2 | rs4778138 | 15_28090674 | 1 Cutaneous malignant melanoma | 12,874 European ancestry cases, 23,203 European ancestry controls | 2015-08-03 | phototype_score_categorical | 0,1745 | 0,01441 | 2,623E-33 |
| OCA2 | rs4778138 | 15_28090674 | 1 Cutaneous malignant melanoma | 12,874 European ancestry cases, 23,203 European ancestry controls | 2015-08-03 | phototype_score | 3,447 | 0,2649 | 4,412E-38 |
| OCA2 | rs4778138 | 15_28090674 | 1 Cutaneous malignant melanoma | 12,874 European ancestry cases, 23,203 European ancestry controls | 2015-08-03 | skin_color_phototype_score | 0,5666 | 0,08606 | 5,045E-11 |
| OCA2 | rs4778138 | 15_28090674 | 1 Cutaneous malignant melanoma | 12,874 European ancestry cases, 23,203 European ancestry controls | 2015-08-03 | skin_color | -0,1163 | 0,01743 | 2,785E-11 |
| OCA2 | rs4778138 | 15_28090674 | 1 Melanoma | 4,842 European ancestry cases, 286,565 European ancestry controls | 2017-02-09 | eye_color_dark | 1,449213512 | 0,071169519 | 1,20605E-98 |
| OCA2 | rs4778138 | 15_28090674 | 1 Melanoma | 4,842 European ancestry cases, 286,565 European ancestry controls | 2017-02-09 | hair_color_black | 0,328582781 | 0,056808016 | 5,99333E-09 |
| OCA2 | rs4778138 | 15_28090674 | 1 Melanoma | 4,842 European ancestry cases, 286,565 European ancestry controls | 2017-02-09 | hair_color_blonde | -1,116404666 | 0,137775182 | 1,38831E-15 |
| OCA2 | rs4778138 | 15_28090674 | 1 Melanoma | 4,842 European ancestry cases, 286,565 European ancestry controls | 2017-02-09 | hair_color_light | -0,936645714 | 0,12180143 | 3,72665E-14 |
| OCA2 | rs4778138 | 15_28090674 | 1 Melanoma | 4,842 European ancestry cases, 286,565 European ancestry controls | 2017-02-09 | eye_color_phototype_score | 1,67 | 0,07176 | 9,322E-114 |
| OCA2 | rs4778138 | 15_28090674 | 1 Melanoma | 4,842 European ancestry cases, 286,565 European ancestry controls | 2017-02-09 | eye_color | -0,5488 | 0,02278 | 2,373E-121 |
| OCA2 | rs4778138 | 15_28090674 | 1 Melanoma | 4,842 European ancestry cases, 286,565 European ancestry controls | 2017-02-09 | hair_color_phototype_score | 0,8485 | 0,09163 | 2,993E-20 |
| OCA2 | rs4778138 | 15_28090674 | 1 Melanoma | 4,842 European ancestry cases, 286,565 European ancestry controls | 2017-02-09 | hair_color | -0,1832 | 0,01756 | 3,272E-25 |
| OCA2 | rs4778138 | 15_28090674 | 1 Melanoma | 4,842 European ancestry cases, 286,565 European ancestry controls | 2017-02-09 | phototype_score_categorical | 0,1745 | 0,01441 | 2,623E-33 |
| OCA2 | rs4778138 | 15_28090674 | 1 Melanoma | 4,842 European ancestry cases, 286,565 European ancestry controls | 2017-02-09 | phototype_score | 3,447 | 0,2649 | 4,412E-38 |

| | | | | | | | | | |
|------|-----------|-------------|----------------------------------|----------------------------------------------------------------------------------------------------|------------|-----------------------------|--------------|-------------|-------------|
| OCA2 | rs4778138 | 15_28090674 | 1 Melanoma | 4,842 European ancestry cases, 286,565 European ancestry controls | 2017-02-09 | skin_color_phototype_score | 0,5666 | 0,08606 | 5,045E-11 |
| OCA2 | rs4778138 | 15_28090674 | 1 Melanoma | 4,842 European ancestry cases, 286,565 European ancestry controls | 2017-02-09 | skin_color | -0,1163 | 0,01743 | 2,785E-11 |
| OCA2 | rs7495174 | 15_28099092 | 1 Blond vs non-blond hair color | 2,888 European ancestry blond hair individuals, 4,203 European ancestry non-blond hair individuals | 2015-07-13 | eye_color_dark | 1,322840789 | 0,089617013 | 1,02908E-50 |
| OCA2 | rs7495174 | 15_28099092 | 1 Blond vs non-blond hair color | 2,888 European ancestry blond hair individuals, 4,203 European ancestry non-blond hair individuals | 2015-07-13 | hair_color_blond | -0,996309012 | 0,175137058 | 2,59976E-08 |
| OCA2 | rs7495174 | 15_28099092 | 1 Blond vs non-blond hair color | 2,888 European ancestry blond hair individuals, 4,203 European ancestry non-blond hair individuals | 2015-07-13 | eye_color_phototype_score | 1,459 | 0,08833 | 9,83E-60 |
| OCA2 | rs7495174 | 15_28099092 | 1 Blond vs non-blond hair color | 2,888 European ancestry blond hair individuals, 4,203 European ancestry non-blond hair individuals | 2015-07-13 | eye_color | -0,4792 | 0,02809 | 1,907E-63 |
| OCA2 | rs7495174 | 15_28099092 | 1 Blond vs non-blond hair color | 2,888 European ancestry blond hair individuals, 4,203 European ancestry non-blond hair individuals | 2015-07-13 | hair_color_phototype_score | 0,6925 | 0,1105 | 3,992E-10 |
| OCA2 | rs7495174 | 15_28099092 | 1 Blond vs non-blond hair color | 2,888 European ancestry blond hair individuals, 4,203 European ancestry non-blond hair individuals | 2015-07-13 | hair_color | -0,1563 | 0,0212 | 1,916E-13 |
| OCA2 | rs7495174 | 15_28099092 | 1 Blond vs non-blond hair color | 2,888 European ancestry blond hair individuals, 4,203 European ancestry non-blond hair individuals | 2015-07-13 | phototype_score_categorical | 0,1421 | 0,01743 | 4,401E-16 |
| OCA2 | rs7495174 | 15_28099092 | 1 Blond vs non-blond hair color | 2,888 European ancestry blond hair individuals, 4,203 European ancestry non-blond hair individuals | 2015-07-13 | phototype_score | 2,872 | 0,3207 | 4,762E-19 |
| OCA2 | rs7495174 | 15_28099092 | 1 Brown vs. non-brown hair color | 3,826 European ancestry brown hair individuals, 3,265 European ancestry non-brown hair individuals | 2015-07-13 | eye_color_dark | 1,322840789 | 0,089617013 | 1,02908E-50 |

| | | | | | | | | | | |
|------|-----------|-------------|---|--------------------------------|----------------------------------------------------------------------------------------------------|------------|-----------------------------|--------------|-------------|-------------|
| OCA2 | rs7495174 | 15_28099092 | 1 | Brown vs. non-brown hair color | 3,826 European ancestry brown hair individuals, 3,265 European ancestry non-brown hair individuals | 2015-07-13 | hair_color_blonde | -0,996309012 | 0,175137058 | 2,59976E-08 |
| OCA2 | rs7495174 | 15_28099092 | 1 | Brown vs. non-brown hair color | 3,826 European ancestry brown hair individuals, 3,265 European ancestry non-brown hair individuals | 2015-07-13 | eye_color_phototype_score | 1,459 | 0,08833 | 9,83E-60 |
| OCA2 | rs7495174 | 15_28099092 | 1 | Brown vs. non-brown hair color | 3,826 European ancestry brown hair individuals, 3,265 European ancestry non-brown hair individuals | 2015-07-13 | eye_color | -0,4792 | 0,02809 | 1,907E-63 |
| OCA2 | rs7495174 | 15_28099092 | 1 | Brown vs. non-brown hair color | 3,826 European ancestry brown hair individuals, 3,265 European ancestry non-brown hair individuals | 2015-07-13 | hair_color_phototype_score | 0,6925 | 0,1105 | 3,992E-10 |
| OCA2 | rs7495174 | 15_28099092 | 1 | Brown vs. non-brown hair color | 3,826 European ancestry brown hair individuals, 3,265 European ancestry non-brown hair individuals | 2015-07-13 | hair_color | -0,1563 | 0,0212 | 1,916E-13 |
| OCA2 | rs7495174 | 15_28099092 | 1 | Brown vs. non-brown hair color | 3,826 European ancestry brown hair individuals, 3,265 European ancestry non-brown hair individuals | 2015-07-13 | phototype_score_categorical | 0,1421 | 0,01743 | 4,401E-16 |
| OCA2 | rs7495174 | 15_28099092 | 1 | Brown vs. non-brown hair color | 3,826 European ancestry brown hair individuals, 3,265 European ancestry non-brown hair individuals | 2015-07-13 | phototype_score | 2,872 | 0,3207 | 4,762E-19 |
| OCA2 | rs7495174 | 15_28099092 | 1 | Light vs. dark hair color | 3,069 European ancestry light hair individuals, 4,022 European ancestry dark hair individuals | 2015-07-13 | eye_color_dark | 1,322840789 | 0,089617013 | 1,02908E-50 |
| OCA2 | rs7495174 | 15_28099092 | 1 | Light vs. dark hair color | 3,069 European ancestry light hair individuals, 4,022 European ancestry dark hair individuals | 2015-07-13 | hair_color_blonde | -0,996309012 | 0,175137058 | 2,59976E-08 |
| OCA2 | rs7495174 | 15_28099092 | 1 | Light vs. dark hair color | 3,069 European ancestry light hair individuals, 4,022 European ancestry dark hair individuals | 2015-07-13 | eye_color_phototype_score | 1,459 | 0,08833 | 9,83E-60 |
| OCA2 | rs7495174 | 15_28099092 | 1 | Light vs. dark hair color | 3,069 European ancestry light hair individuals, 4,022 European ancestry dark hair individuals | 2015-07-13 | eye_color | -0,4792 | 0,02809 | 1,907E-63 |

| | | | | | | | | | | |
|------|-----------|-------------|---|---------------------------|-----------------------------------------------------------------------------------------------|------------|-----------------------------|--------------|-------------|-------------|
| OCA2 | rs7495174 | 15_28099092 | 1 | Light vs. dark hair color | 3,069 European ancestry light hair individuals, 4,022 European ancestry dark hair individuals | 2015-07-13 | hair_color_phototype_score | 0,6925 | 0,1105 | 3,992E-10 |
| OCA2 | rs7495174 | 15_28099092 | 1 | Light vs. dark hair color | 3,069 European ancestry light hair individuals, 4,022 European ancestry dark hair individuals | 2015-07-13 | hair_color | -0,1563 | 0,0212 | 1,916E-13 |
| OCA2 | rs7495174 | 15_28099092 | 1 | Light vs. dark hair color | 3,069 European ancestry light hair individuals, 4,022 European ancestry dark hair individuals | 2015-07-13 | phototype_score_categorical | 0,1421 | 0,01743 | 4,401E-16 |
| OCA2 | rs7495174 | 15_28099092 | 1 | Light vs. dark hair color | 3,069 European ancestry light hair individuals, 4,022 European ancestry dark hair individuals | 2015-07-13 | phototype_score | 2,872 | 0,3207 | 4,762E-19 |
| OCA2 | rs7495174 | 15_28099092 | 1 | Red vs non-red hair color | 181 European ancestry red hair individuals, 6,910 European ancestry non-red hair individuals | 2015-07-13 | eye_color_dark | 1,322840789 | 0,089617013 | 1,02908E-50 |
| OCA2 | rs7495174 | 15_28099092 | 1 | Red vs non-red hair color | 181 European ancestry red hair individuals, 6,910 European ancestry non-red hair individuals | 2015-07-13 | hair_color_blonde | -0,996309012 | 0,175137058 | 2,59976E-08 |
| OCA2 | rs7495174 | 15_28099092 | 1 | Red vs non-red hair color | 181 European ancestry red hair individuals, 6,910 European ancestry non-red hair individuals | 2015-07-13 | eye_color_phototype_score | 1,459 | 0,08833 | 9,83E-60 |
| OCA2 | rs7495174 | 15_28099092 | 1 | Red vs non-red hair color | 181 European ancestry red hair individuals, 6,910 European ancestry non-red hair individuals | 2015-07-13 | eye_color | -0,4792 | 0,02809 | 1,907E-63 |
| OCA2 | rs7495174 | 15_28099092 | 1 | Red vs non-red hair color | 181 European ancestry red hair individuals, 6,910 European ancestry non-red hair individuals | 2015-07-13 | hair_color_phototype_score | 0,6925 | 0,1105 | 3,992E-10 |
| OCA2 | rs7495174 | 15_28099092 | 1 | Red vs non-red hair color | 181 European ancestry red hair individuals, 6,910 European ancestry non-red hair individuals | 2015-07-13 | hair_color | -0,1563 | 0,0212 | 1,916E-13 |
| OCA2 | rs7495174 | 15_28099092 | 1 | Red vs non-red hair color | 181 European ancestry red hair individuals, 6,910 European ancestry non-red hair individuals | 2015-07-13 | phototype_score_categorical | 0,1421 | 0,01743 | 4,401E-16 |

| | | | | | | | | | | |
|-------|-----------|-------------|---|---------------------------|----------------------------------------------------------------------------------------------|------------|-----------------------------------------|--------------|-------------|-------------|
| OCA2 | rs7495174 | 15_28099092 | 1 | Red vs non-red hair color | 181 European ancestry red hair individuals, 6,910 European ancestry non-red hair individuals | 2015-07-13 | phototype_score | 2,872 | 0,3207 | 4,762E-19 |
| HERC2 | rs1129038 | 15_28111713 | 1 | Vitiligo | 418 European ancestry cases, 2,810 European ancestry controls | 2012-05-06 | hair_color_black | -0,665451106 | 0,060039266 | 3,81724E-29 |
| HERC2 | rs1129038 | 15_28111713 | 1 | Vitiligo | 418 European ancestry cases, 2,810 European ancestry controls | 2012-05-06 | hair_color_blonde | 1,603698593 | 0,105565897 | 4,39492E-52 |
| HERC2 | rs1129038 | 15_28111713 | 1 | Vitiligo | 418 European ancestry cases, 2,810 European ancestry controls | 2012-05-06 | hair_color_light | 1,418549842 | 0,095970473 | 6,11564E-49 |
| HERC2 | rs1129038 | 15_28111713 | 1 | Vitiligo | 418 European ancestry cases, 2,810 European ancestry controls | 2012-05-06 | skin_sensitivity_to_sun_binary_1_5 | 0,534148232 | 0,082959955 | 3,29378E-11 |
| HERC2 | rs1129038 | 15_28111713 | 1 | Vitiligo | 418 European ancestry cases, 2,810 European ancestry controls | 2012-05-06 | skin_sensitivity_to_sun_binary_12_45 | 0,31172586 | 0,048503198 | 7,91455E-11 |
| HERC2 | rs1129038 | 15_28111713 | 1 | Vitiligo | 418 European ancestry cases, 2,810 European ancestry controls | 2012-05-06 | hair_color_phototype_score | -1,569 | 0,08359 | 5,749E-76 |
| HERC2 | rs1129038 | 15_28111713 | 1 | Vitiligo | 418 European ancestry cases, 2,810 European ancestry controls | 2012-05-06 | hair_color | 0,3415 | 0,0159 | 5,481E-98 |
| HERC2 | rs1129038 | 15_28111713 | 1 | Vitiligo | 418 European ancestry cases, 2,810 European ancestry controls | 2012-05-06 | phototype_score_categorical | -0,3177 | 0,01292 | 5,957E-126 |
| HERC2 | rs1129038 | 15_28111713 | 1 | Vitiligo | 418 European ancestry cases, 2,810 European ancestry controls | 2012-05-06 | phototype_score | -6,186 | 0,2364 | 2,245E-141 |
| HERC2 | rs1129038 | 15_28111713 | 1 | Vitiligo | 418 European ancestry cases, 2,810 European ancestry controls | 2012-05-06 | skin_color_phototype_score | -0,8357 | 0,08006 | 2,99E-25 |
| HERC2 | rs1129038 | 15_28111713 | 1 | Vitiligo | 418 European ancestry cases, 2,810 European ancestry controls | 2012-05-06 | skin_color | 0,1722 | 0,01621 | 4,674E-26 |
| HERC2 | rs1129038 | 15_28111713 | 1 | Vitiligo | 418 European ancestry cases, 2,810 European ancestry controls | 2012-05-06 | skin_sensitivity_to_sun_phototype_score | -0,5771 | 0,08415 | 7,872E-12 |
| HERC2 | rs1129038 | 15_28111713 | 1 | Vitiligo | 418 European ancestry cases, 2,810 European ancestry controls | 2012-05-06 | skin_sensitivity_to_sun | -0,1935 | 0,0266 | 4,001E-13 |

| | | | | | | | | | | |
|-------|------------|-------------|---|----------------------------|--------------------------------------------|------------|-----------------------------------------|--------------|-------------|-------------|
| HERC2 | rs12913832 | 15_28120472 | 1 | Black vs. blond hair color | 2,287 European ancestry female individuals | 2008-05-16 | hair_color_black | -0,682464991 | 0,060387345 | 3,07182E-30 |
| HERC2 | rs12913832 | 15_28120472 | 1 | Black vs. blond hair color | 2,287 European ancestry female individuals | 2008-05-16 | hair_color_blond | 1,612929125 | 0,105609358 | 1,4661E-52 |
| HERC2 | rs12913832 | 15_28120472 | 1 | Black vs. blond hair color | 2,287 European ancestry female individuals | 2008-05-16 | hair_color_light | 1,42899686 | 0,096081437 | 1,75812E-49 |
| HERC2 | rs12913832 | 15_28120472 | 1 | Black vs. blond hair color | 2,287 European ancestry female individuals | 2008-05-16 | skin_sensitivity_to_sun_binary_1_5 | 0,547548959 | 0,083409094 | 1,30832E-11 |
| HERC2 | rs12913832 | 15_28120472 | 1 | Black vs. blond hair color | 2,287 European ancestry female individuals | 2008-05-16 | skin_sensitivity_to_sun_binary_12_45 | 0,32792722 | 0,04873666 | 9,66064E-12 |
| HERC2 | rs12913832 | 15_28120472 | 1 | Black vs. blond hair color | 2,287 European ancestry female individuals | 2008-05-16 | hair_color_phototype_score | -1,602 | 0,0837 | 7,26E-79 |
| HERC2 | rs12913832 | 15_28120472 | 1 | Black vs. blond hair color | 2,287 European ancestry female individuals | 2008-05-16 | hair_color | 0,3482 | 0,01591 | 2,33E-101 |
| HERC2 | rs12913832 | 15_28120472 | 1 | Black vs. blond hair color | 2,287 European ancestry female individuals | 2008-05-16 | phototype_score_categorical | -0,3257 | 0,01293 | 7,696E-132 |
| HERC2 | rs12913832 | 15_28120472 | 1 | Black vs. blond hair color | 2,287 European ancestry female individuals | 2008-05-16 | phototype_score | -6,354 | 0,2363 | 1,195E-148 |
| HERC2 | rs12913832 | 15_28120472 | 1 | Black vs. blond hair color | 2,287 European ancestry female individuals | 2008-05-16 | skin_color_phototype_score | -0,8599 | 0,08023 | 1,629E-26 |
| HERC2 | rs12913832 | 15_28120472 | 1 | Black vs. blond hair color | 2,287 European ancestry female individuals | 2008-05-16 | skin_color | 0,1766 | 0,01625 | 3,242E-27 |
| HERC2 | rs12913832 | 15_28120472 | 1 | Black vs. blond hair color | 2,287 European ancestry female individuals | 2008-05-16 | skin_sensitivity_to_sun_phototype_score | -0,6038 | 0,08435 | 9,336E-13 |
| HERC2 | rs12913832 | 15_28120472 | 1 | Black vs. blond hair color | 2,287 European ancestry female individuals | 2008-05-16 | skin_sensitivity_to_sun | -0,2014 | 0,02666 | 5,023E-14 |
| HERC2 | rs12913832 | 15_28120472 | 1 | Black vs. red hair color | 2,287 European ancestry female individuals | 2008-05-16 | hair_color_black | -0,682464991 | 0,060387345 | 3,07182E-30 |
| HERC2 | rs12913832 | 15_28120472 | 1 | Black vs. red hair color | 2,287 European ancestry female individuals | 2008-05-16 | hair_color_blond | 1,612929125 | 0,105609358 | 1,4661E-52 |
| HERC2 | rs12913832 | 15_28120472 | 1 | Black vs. red hair color | 2,287 European ancestry female individuals | 2008-05-16 | hair_color_light | 1,42899686 | 0,096081437 | 1,75812E-49 |
| HERC2 | rs12913832 | 15_28120472 | 1 | Black vs. red hair color | 2,287 European ancestry female individuals | 2008-05-16 | skin_sensitivity_to_sun_binary_1_5 | 0,547548959 | 0,083409094 | 1,30832E-11 |
| HERC2 | rs12913832 | 15_28120472 | 1 | Black vs. red hair color | 2,287 European ancestry female individuals | 2008-05-16 | skin_sensitivity_to_sun_binary_12_45 | 0,32792722 | 0,04873666 | 9,66064E-12 |
| HERC2 | rs12913832 | 15_28120472 | 1 | Black vs. red hair color | 2,287 European ancestry female individuals | 2008-05-16 | hair_color_phototype_score | -1,602 | 0,0837 | 7,26E-79 |
| HERC2 | rs12913832 | 15_28120472 | 1 | Black vs. red hair color | 2,287 European ancestry female individuals | 2008-05-16 | hair_color | 0,3482 | 0,01591 | 2,33E-101 |
| HERC2 | rs12913832 | 15_28120472 | 1 | Black vs. red hair color | 2,287 European ancestry female individuals | 2008-05-16 | phototype_score_categorical | -0,3257 | 0,01293 | 7,696E-132 |

| | | | | | | | | | |
|-------|------------|-------------|----------------------------|--------------------------------------------|------------|-----------------------------------------|--------------|-------------|-------------|
| HERC2 | rs12913832 | 15_28120472 | 1 Black vs. red hair color | 2,287 European ancestry female individuals | 2008-05-16 | phototype_score | -6,354 | 0,2363 | 1,195E-148 |
| HERC2 | rs12913832 | 15_28120472 | 1 Black vs. red hair color | 2,287 European ancestry female individuals | 2008-05-16 | skin_color_phototype_score | -0,8599 | 0,08023 | 1,629E-26 |
| HERC2 | rs12913832 | 15_28120472 | 1 Black vs. red hair color | 2,287 European ancestry female individuals | 2008-05-16 | skin_color | 0,1766 | 0,01625 | 3,242E-27 |
| HERC2 | rs12913832 | 15_28120472 | 1 Black vs. red hair color | 2,287 European ancestry female individuals | 2008-05-16 | skin_sensitivity_to_sun_phototype_score | -0,6038 | 0,08435 | 9,336E-13 |
| HERC2 | rs12913832 | 15_28120472 | 1 Black vs. red hair color | 2,287 European ancestry female individuals | 2008-05-16 | skin_sensitivity_to_sun | -0,2014 | 0,02666 | 5,023E-14 |
| HERC2 | rs12913832 | 15_28120472 | 1 Hair color | 9,126 European ancestry individuals | 2010-06-24 | hair_color_black | -0,682464991 | 0,060387345 | 3,07182E-30 |
| HERC2 | rs12913832 | 15_28120472 | 1 Hair color | 9,126 European ancestry individuals | 2010-06-24 | hair_color_blond | 1,612929125 | 0,105609358 | 1,4661E-52 |
| HERC2 | rs12913832 | 15_28120472 | 1 Hair color | 9,126 European ancestry individuals | 2010-06-24 | hair_color_light | 1,42899686 | 0,096081437 | 1,75812E-49 |
| HERC2 | rs12913832 | 15_28120472 | 1 Hair color | 9,126 European ancestry individuals | 2010-06-24 | skin_sensitivity_to_sun_binary_1_5 | 0,547548959 | 0,083409094 | 1,30832E-11 |
| HERC2 | rs12913832 | 15_28120472 | 1 Hair color | 9,126 European ancestry individuals | 2010-06-24 | skin_sensitivity_to_sun_binary_12_45 | 0,32792722 | 0,04873666 | 9,66064E-12 |
| HERC2 | rs12913832 | 15_28120472 | 1 Hair color | 9,126 European ancestry individuals | 2010-06-24 | hair_color_phototype_score | -1,602 | 0,0837 | 7,26E-79 |
| HERC2 | rs12913832 | 15_28120472 | 1 Hair color | 9,126 European ancestry individuals | 2010-06-24 | hair_color | 0,3482 | 0,01591 | 2,33E-101 |
| HERC2 | rs12913832 | 15_28120472 | 1 Hair color | 9,126 European ancestry individuals | 2010-06-24 | phototype_score_categorical | -0,3257 | 0,01293 | 7,696E-132 |
| HERC2 | rs12913832 | 15_28120472 | 1 Hair color | 9,126 European ancestry individuals | 2010-06-24 | phototype_score | -6,354 | 0,2363 | 1,195E-148 |
| HERC2 | rs12913832 | 15_28120472 | 1 Hair color | 9,126 European ancestry individuals | 2010-06-24 | skin_color_phototype_score | -0,8599 | 0,08023 | 1,629E-26 |
| HERC2 | rs12913832 | 15_28120472 | 1 Hair color | 9,126 European ancestry individuals | 2010-06-24 | skin_color | 0,1766 | 0,01625 | 3,242E-27 |
| HERC2 | rs12913832 | 15_28120472 | 1 Hair color | 9,126 European ancestry individuals | 2010-06-24 | skin_sensitivity_to_sun_phototype_score | -0,6038 | 0,08435 | 9,336E-13 |
| HERC2 | rs12913832 | 15_28120472 | 1 Hair color | 9,126 European ancestry individuals | 2010-06-24 | skin_sensitivity_to_sun | -0,2014 | 0,02666 | 5,023E-14 |
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color | 9,126 European ancestry individuals | 2010-06-24 | hair_color_black | -0,682464991 | 0,060387345 | 3,07182E-30 |
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color | 9,126 European ancestry individuals | 2010-06-24 | hair_color_blond | 1,612929125 | 0,105609358 | 1,4661E-52 |
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color | 9,126 European ancestry individuals | 2010-06-24 | hair_color_light | 1,42899686 | 0,096081437 | 1,75812E-49 |

| | | | | | | | | | |
|-------|------------|-------------|-------------|-------------------------------------|------------|-----------------------------------------|--------------|-------------|-------------|
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color | 9,126 European ancestry individuals | 2010-06-24 | skin_sensitivity_to_sun_binary_1_5 | 0,547548959 | 0,083409094 | 1,30832E-11 |
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color | 9,126 European ancestry individuals | 2010-06-24 | skin_sensitivity_to_sun_binary_12_45 | 0,32792722 | 0,04873666 | 9,66064E-12 |
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color | 9,126 European ancestry individuals | 2010-06-24 | hair_color_phototype_score | -1,602 | 0,0837 | 7,26E-79 |
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color | 9,126 European ancestry individuals | 2010-06-24 | hair_color | 0,3482 | 0,01591 | 2,33E-101 |
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color | 9,126 European ancestry individuals | 2010-06-24 | phototype_score_categorical | -0,3257 | 0,01293 | 7,696E-132 |
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color | 9,126 European ancestry individuals | 2010-06-24 | phototype_score | -6,354 | 0,2363 | 1,195E-148 |
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color | 9,126 European ancestry individuals | 2010-06-24 | skin_color_phototype_score | -0,8599 | 0,08023 | 1,629E-26 |
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color | 9,126 European ancestry individuals | 2010-06-24 | skin_color | 0,1766 | 0,01625 | 3,242E-27 |
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color | 9,126 European ancestry individuals | 2010-06-24 | skin_sensitivity_to_sun_phototype_score | -0,6038 | 0,08435 | 9,336E-13 |
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color | 9,126 European ancestry individuals | 2010-06-24 | skin_sensitivity_to_sun | -0,2014 | 0,02666 | 5,023E-14 |
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color | 9,126 European ancestry individuals | 2010-06-24 | hair_color_black | -0,682464991 | 0,060387345 | 3,07182E-30 |
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color | 9,126 European ancestry individuals | 2010-06-24 | hair_color_blonde | 1,612929125 | 0,105609358 | 1,4661E-52 |
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color | 9,126 European ancestry individuals | 2010-06-24 | hair_color_light | 1,42899686 | 0,096081437 | 1,75812E-49 |
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color | 9,126 European ancestry individuals | 2010-06-24 | skin_sensitivity_to_sun_binary_1_5 | 0,547548959 | 0,083409094 | 1,30832E-11 |
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color | 9,126 European ancestry individuals | 2010-06-24 | skin_sensitivity_to_sun_binary_12_45 | 0,32792722 | 0,04873666 | 9,66064E-12 |
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color | 9,126 European ancestry individuals | 2010-06-24 | hair_color_phototype_score | -1,602 | 0,0837 | 7,26E-79 |
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color | 9,126 European ancestry individuals | 2010-06-24 | hair_color | 0,3482 | 0,01591 | 2,33E-101 |
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color | 9,126 European ancestry individuals | 2010-06-24 | phototype_score_categorical | -0,3257 | 0,01293 | 7,696E-132 |
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color | 9,126 European ancestry individuals | 2010-06-24 | phototype_score | -6,354 | 0,2363 | 1,195E-148 |
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color | 9,126 European ancestry individuals | 2010-06-24 | skin_color_phototype_score | -0,8599 | 0,08023 | 1,629E-26 |
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color | 9,126 European ancestry individuals | 2010-06-24 | skin_color | 0,1766 | 0,01625 | 3,242E-27 |

| | | | | | | | | | |
|-------|------------|-------------|--------------------|-------------------------------------|------------|-----------------------------------------|--------------|-------------|-------------|
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color | 9,126 European ancestry individuals | 2010-06-24 | skin_sensitivity_to_sun_phototype_score | -0,6038 | 0,08435 | 9,336E-13 |
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color | 9,126 European ancestry individuals | 2010-06-24 | skin_sensitivity_to_sun | -0,2014 | 0,02666 | 5,023E-14 |
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color traits | 5,951 European ancestry individuals | 2010-05-16 | hair_color_black | -0,682464991 | 0,060387345 | 3,07182E-30 |
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color traits | 5,951 European ancestry individuals | 2010-05-16 | hair_color_blonde | 1,612929125 | 0,105609358 | 1,4661E-52 |
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color traits | 5,951 European ancestry individuals | 2010-05-16 | hair_color_light | 1,42899686 | 0,096081437 | 1,75812E-49 |
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color traits | 5,951 European ancestry individuals | 2010-05-16 | skin_sensitivity_to_sun_binary_1_5 | 0,547548959 | 0,083409094 | 1,30832E-11 |
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color traits | 5,951 European ancestry individuals | 2010-05-16 | skin_sensitivity_to_sun_binary_12_45 | 0,32792722 | 0,04873666 | 9,66064E-12 |
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color traits | 5,951 European ancestry individuals | 2010-05-16 | hair_color_phototype_score | -1,602 | 0,0837 | 7,26E-79 |
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color traits | 5,951 European ancestry individuals | 2010-05-16 | hair_color | 0,3482 | 0,01591 | 2,33E-101 |
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color traits | 5,951 European ancestry individuals | 2010-05-16 | phototype_score_categorical | -0,3257 | 0,01293 | 7,696E-132 |
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color traits | 5,951 European ancestry individuals | 2010-05-16 | phototype_score | -6,354 | 0,2363 | 1,195E-148 |
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color traits | 5,951 European ancestry individuals | 2010-05-16 | skin_color_phototype_score | -0,8599 | 0,08023 | 1,629E-26 |
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color traits | 5,951 European ancestry individuals | 2010-05-16 | skin_color | 0,1766 | 0,01625 | 3,242E-27 |
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color traits | 5,951 European ancestry individuals | 2010-05-16 | skin_sensitivity_to_sun_phototype_score | -0,6038 | 0,08435 | 9,336E-13 |
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color traits | 5,951 European ancestry individuals | 2010-05-16 | skin_sensitivity_to_sun | -0,2014 | 0,02666 | 5,023E-14 |
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color | 3871 European ancestry individuals | 2013-04-01 | hair_color_black | -0,682464991 | 0,060387345 | 3,07182E-30 |
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color | 3871 European ancestry individuals | 2013-04-01 | hair_color_blonde | 1,612929125 | 0,105609358 | 1,4661E-52 |
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color | 3871 European ancestry individuals | 2013-04-01 | hair_color_light | 1,42899686 | 0,096081437 | 1,75812E-49 |
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color | 3871 European ancestry individuals | 2013-04-01 | skin_sensitivity_to_sun_binary_1_5 | 0,547548959 | 0,083409094 | 1,30832E-11 |
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color | 3871 European ancestry individuals | 2013-04-01 | skin_sensitivity_to_sun_binary_12_45 | 0,32792722 | 0,04873666 | 9,66064E-12 |
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color | 3871 European ancestry individuals | 2013-04-01 | hair_color_phototype_score | -1,602 | 0,0837 | 7,26E-79 |

| | | | | | | | | | |
|-------|------------|-------------|--------------|-------------------------------------|------------|-----------------------------------------|--------------|-------------|-------------|
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color | 3871 European ancestry individuals | 2013-04-01 | hair_color | 0,3482 | 0,01591 | 2,33E-101 |
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color | 3871 European ancestry individuals | 2013-04-01 | phototype_score_categorical | -0,3257 | 0,01293 | 7,696E-132 |
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color | 3871 European ancestry individuals | 2013-04-01 | phototype_score | -6,354 | 0,2363 | 1,195E-148 |
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color | 3871 European ancestry individuals | 2013-04-01 | skin_color_phototype_score | -0,8599 | 0,08023 | 1,629E-26 |
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color | 3871 European ancestry individuals | 2013-04-01 | skin_color | 0,1766 | 0,01625 | 3,242E-27 |
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color | 3871 European ancestry individuals | 2013-04-01 | skin_sensitivity_to_sun_phototype_score | -0,6038 | 0,08435 | 9,336E-13 |
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color | 3871 European ancestry individuals | 2013-04-01 | skin_sensitivity_to_sun | -0,2014 | 0,02666 | 5,023E-14 |
| HERC2 | rs12913832 | 15_28120472 | 1 Tanning | 9,678 European ancestry individuals | 2013-04-01 | hair_color_black | -0,682464991 | 0,060387345 | 3,07182E-30 |
| HERC2 | rs12913832 | 15_28120472 | 1 Tanning | 9,678 European ancestry individuals | 2013-04-01 | hair_color_blonde | 1,612929125 | 0,105609358 | 1,4661E-52 |
| HERC2 | rs12913832 | 15_28120472 | 1 Tanning | 9,678 European ancestry individuals | 2013-04-01 | hair_color_light | 1,42899686 | 0,096081437 | 1,75812E-49 |
| HERC2 | rs12913832 | 15_28120472 | 1 Tanning | 9,678 European ancestry individuals | 2013-04-01 | skin_sensitivity_to_sun_binary_1_5 | 0,547548959 | 0,083409094 | 1,30832E-11 |
| HERC2 | rs12913832 | 15_28120472 | 1 Tanning | 9,678 European ancestry individuals | 2013-04-01 | skin_sensitivity_to_sun_binary_12_45 | 0,32792722 | 0,04873666 | 9,66064E-12 |
| HERC2 | rs12913832 | 15_28120472 | 1 Tanning | 9,678 European ancestry individuals | 2013-04-01 | hair_color_phototype_score | -1,602 | 0,0837 | 7,26E-79 |
| HERC2 | rs12913832 | 15_28120472 | 1 Tanning | 9,678 European ancestry individuals | 2013-04-01 | hair_color | 0,3482 | 0,01591 | 2,33E-101 |
| HERC2 | rs12913832 | 15_28120472 | 1 Tanning | 9,678 European ancestry individuals | 2013-04-01 | phototype_score_categorical | -0,3257 | 0,01293 | 7,696E-132 |
| HERC2 | rs12913832 | 15_28120472 | 1 Tanning | 9,678 European ancestry individuals | 2013-04-01 | phototype_score | -6,354 | 0,2363 | 1,195E-148 |
| HERC2 | rs12913832 | 15_28120472 | 1 Tanning | 9,678 European ancestry individuals | 2013-04-01 | skin_color_phototype_score | -0,8599 | 0,08023 | 1,629E-26 |
| HERC2 | rs12913832 | 15_28120472 | 1 Tanning | 9,678 European ancestry individuals | 2013-04-01 | skin_color | 0,1766 | 0,01625 | 3,242E-27 |
| HERC2 | rs12913832 | 15_28120472 | 1 Tanning | 9,678 European ancestry individuals | 2013-04-01 | skin_sensitivity_to_sun_phototype_score | -0,6038 | 0,08435 | 9,336E-13 |
| HERC2 | rs12913832 | 15_28120472 | 1 Tanning | 9,678 European ancestry individuals | 2013-04-01 | skin_sensitivity_to_sun | -0,2014 | 0,02666 | 5,023E-14 |
| HERC2 | rs12913832 | 15_28120472 | 1 Hair color | 7,070 European ancestry individuals | 2013-04-01 | hair_color_black | -0,682464991 | 0,060387345 | 3,07182E-30 |

| | | | | | | | | | |
|-------|------------|-------------|--------------|-------------------------------------|------------|-----------------------------------------|--------------|-------------|-------------|
| HERC2 | rs12913832 | 15_28120472 | 1 Hair color | 7,070 European ancestry individuals | 2013-04-01 | hair_color_blonde | 1,612929125 | 0,105609358 | 1,4661E-52 |
| HERC2 | rs12913832 | 15_28120472 | 1 Hair color | 7,070 European ancestry individuals | 2013-04-01 | hair_color_light | 1,42899686 | 0,096081437 | 1,75812E-49 |
| HERC2 | rs12913832 | 15_28120472 | 1 Hair color | 7,070 European ancestry individuals | 2013-04-01 | skin_sensitivity_to_sun_binary_1_5 | 0,547548959 | 0,083409094 | 1,30832E-11 |
| HERC2 | rs12913832 | 15_28120472 | 1 Hair color | 7,070 European ancestry individuals | 2013-04-01 | skin_sensitivity_to_sun_binary_12_45 | 0,32792722 | 0,04873666 | 9,66064E-12 |
| HERC2 | rs12913832 | 15_28120472 | 1 Hair color | 7,070 European ancestry individuals | 2013-04-01 | hair_color_phototype_score | -1,602 | 0,0837 | 7,26E-79 |
| HERC2 | rs12913832 | 15_28120472 | 1 Hair color | 7,070 European ancestry individuals | 2013-04-01 | hair_color | 0,3482 | 0,01591 | 2,33E-101 |
| HERC2 | rs12913832 | 15_28120472 | 1 Hair color | 7,070 European ancestry individuals | 2013-04-01 | phototype_score_categorical | -0,3257 | 0,01293 | 7,696E-132 |
| HERC2 | rs12913832 | 15_28120472 | 1 Hair color | 7,070 European ancestry individuals | 2013-04-01 | phototype_score | -6,354 | 0,2363 | 1,195E-148 |
| HERC2 | rs12913832 | 15_28120472 | 1 Hair color | 7,070 European ancestry individuals | 2013-04-01 | skin_color_phototype_score | -0,8599 | 0,08023 | 1,629E-26 |
| HERC2 | rs12913832 | 15_28120472 | 1 Hair color | 7,070 European ancestry individuals | 2013-04-01 | skin_color | 0,1766 | 0,01625 | 3,242E-27 |
| HERC2 | rs12913832 | 15_28120472 | 1 Hair color | 7,070 European ancestry individuals | 2013-04-01 | skin_sensitivity_to_sun_phototype_score | -0,6038 | 0,08435 | 9,336E-13 |
| HERC2 | rs12913832 | 15_28120472 | 1 Hair color | 7,070 European ancestry individuals | 2013-04-01 | skin_sensitivity_to_sun | -0,2014 | 0,02666 | 5,023E-14 |
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color | 3871 European ancestry individuals | 2013-04-01 | hair_color_black | -0,682464991 | 0,060387345 | 3,07182E-30 |
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color | 3871 European ancestry individuals | 2013-04-01 | hair_color_blonde | 1,612929125 | 0,105609358 | 1,4661E-52 |
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color | 3871 European ancestry individuals | 2013-04-01 | hair_color_light | 1,42899686 | 0,096081437 | 1,75812E-49 |
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color | 3871 European ancestry individuals | 2013-04-01 | skin_sensitivity_to_sun_binary_1_5 | 0,547548959 | 0,083409094 | 1,30832E-11 |
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color | 3871 European ancestry individuals | 2013-04-01 | skin_sensitivity_to_sun_binary_12_45 | 0,32792722 | 0,04873666 | 9,66064E-12 |
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color | 3871 European ancestry individuals | 2013-04-01 | hair_color_phototype_score | -1,602 | 0,0837 | 7,26E-79 |
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color | 3871 European ancestry individuals | 2013-04-01 | hair_color | 0,3482 | 0,01591 | 2,33E-101 |
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color | 3871 European ancestry individuals | 2013-04-01 | phototype_score_categorical | -0,3257 | 0,01293 | 7,696E-132 |
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color | 3871 European ancestry individuals | 2013-04-01 | phototype_score | -6,354 | 0,2363 | 1,195E-148 |

| | | | | | | | | | |
|-------|------------|-------------|---------------------------|-------------------------------------|------------|-----------------------------------------|--------------|-------------|-------------|
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color | 3871 European ancestry individuals | 2013-04-01 | skin_color_phototype_score | -0,8599 | 0,08023 | 1,629E-26 |
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color | 3871 European ancestry individuals | 2013-04-01 | skin_color | 0,1766 | 0,01625 | 3,242E-27 |
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color | 3871 European ancestry individuals | 2013-04-01 | skin_sensitivity_to_sun_phototype_score | -0,6038 | 0,08435 | 9,336E-13 |
| HERC2 | rs12913832 | 15_28120472 | 1 Eye color | 3871 European ancestry individuals | 2013-04-01 | skin_sensitivity_to_sun | -0,2014 | 0,02666 | 5,023E-14 |
| HERC2 | rs12913832 | 15_28120472 | 1 Perceived skin darkness | 9,316 European ancestry individuals | 2015-05-12 | hair_color_black | -0,682464991 | 0,060387345 | 3,07182E-30 |
| HERC2 | rs12913832 | 15_28120472 | 1 Perceived skin darkness | 9,316 European ancestry individuals | 2015-05-12 | hair_color_blonde | 1,612929125 | 0,105609358 | 1,4661E-52 |
| HERC2 | rs12913832 | 15_28120472 | 1 Perceived skin darkness | 9,316 European ancestry individuals | 2015-05-12 | hair_color_light | 1,42899686 | 0,096081437 | 1,75812E-49 |
| HERC2 | rs12913832 | 15_28120472 | 1 Perceived skin darkness | 9,316 European ancestry individuals | 2015-05-12 | skin_sensitivity_to_sun_binary_1_5 | 0,547548959 | 0,083409094 | 1,30832E-11 |
| HERC2 | rs12913832 | 15_28120472 | 1 Perceived skin darkness | 9,316 European ancestry individuals | 2015-05-12 | skin_sensitivity_to_sun_binary_12_45 | 0,32792722 | 0,04873666 | 9,66064E-12 |
| HERC2 | rs12913832 | 15_28120472 | 1 Perceived skin darkness | 9,316 European ancestry individuals | 2015-05-12 | hair_color_phototype_score | -1,602 | 0,0837 | 7,26E-79 |
| HERC2 | rs12913832 | 15_28120472 | 1 Perceived skin darkness | 9,316 European ancestry individuals | 2015-05-12 | hair_color | 0,3482 | 0,01591 | 2,33E-101 |
| HERC2 | rs12913832 | 15_28120472 | 1 Perceived skin darkness | 9,316 European ancestry individuals | 2015-05-12 | phototype_score_categorical | -0,3257 | 0,01293 | 7,696E-132 |
| HERC2 | rs12913832 | 15_28120472 | 1 Perceived skin darkness | 9,316 European ancestry individuals | 2015-05-12 | phototype_score | -6,354 | 0,2363 | 1,195E-148 |
| HERC2 | rs12913832 | 15_28120472 | 1 Perceived skin darkness | 9,316 European ancestry individuals | 2015-05-12 | skin_color_phototype_score | -0,8599 | 0,08023 | 1,629E-26 |
| HERC2 | rs12913832 | 15_28120472 | 1 Perceived skin darkness | 9,316 European ancestry individuals | 2015-05-12 | skin_color | 0,1766 | 0,01625 | 3,242E-27 |
| HERC2 | rs12913832 | 15_28120472 | 1 Perceived skin darkness | 9,316 European ancestry individuals | 2015-05-12 | skin_sensitivity_to_sun_phototype_score | -0,6038 | 0,08435 | 9,336E-13 |
| HERC2 | rs12913832 | 15_28120472 | 1 Perceived skin darkness | 9,316 European ancestry individuals | 2015-05-12 | skin_sensitivity_to_sun | -0,2014 | 0,02666 | 5,023E-14 |
| HERC2 | rs12913832 | 15_28120472 | 1 Hair color | 6,357 Latin American individuals | 2016-03-01 | hair_color_black | -0,682464991 | 0,060387345 | 3,07182E-30 |
| HERC2 | rs12913832 | 15_28120472 | 1 Hair color | 6,357 Latin American individuals | 2016-03-01 | hair_color_blonde | 1,612929125 | 0,105609358 | 1,4661E-52 |
| HERC2 | rs12913832 | 15_28120472 | 1 Hair color | 6,357 Latin American individuals | 2016-03-01 | hair_color_light | 1,42899686 | 0,096081437 | 1,75812E-49 |
| HERC2 | rs12913832 | 15_28120472 | 1 Hair color | 6,357 Latin American individuals | 2016-03-01 | skin_sensitivity_to_sun_binary_1_5 | 0,547548959 | 0,083409094 | 1,30832E-11 |

| | | | | | | | | | | |
|-------|------------|-------------|---|-----------------------------|------------------------------------------------------------|------------|-----------------------------------------|--------------|-------------|-------------|
| HERC2 | rs12913832 | 15_28120472 | 1 | Hair color | 6,357 Latin American individuals | 2016-03-01 | skin_sensitivity_to_sun_binary_12_45 | 0,32792722 | 0,04873666 | 9,66064E-12 |
| HERC2 | rs12913832 | 15_28120472 | 1 | Hair color | 6,357 Latin American individuals | 2016-03-01 | hair_color_phototype_score | -1,602 | 0,0837 | 7,26E-79 |
| HERC2 | rs12913832 | 15_28120472 | 1 | Hair color | 6,357 Latin American individuals | 2016-03-01 | hair_color | 0,3482 | 0,01591 | 2,33E-101 |
| HERC2 | rs12913832 | 15_28120472 | 1 | Hair color | 6,357 Latin American individuals | 2016-03-01 | phototype_score_categorical | -0,3257 | 0,01293 | 7,696E-132 |
| HERC2 | rs12913832 | 15_28120472 | 1 | Hair color | 6,357 Latin American individuals | 2016-03-01 | phototype_score | -6,354 | 0,2363 | 1,195E-148 |
| HERC2 | rs12913832 | 15_28120472 | 1 | Hair color | 6,357 Latin American individuals | 2016-03-01 | skin_color_phototype_score | -0,8599 | 0,08023 | 1,629E-26 |
| HERC2 | rs12913832 | 15_28120472 | 1 | Hair color | 6,357 Latin American individuals | 2016-03-01 | skin_color | 0,1766 | 0,01625 | 3,242E-27 |
| HERC2 | rs12913832 | 15_28120472 | 1 | Hair color | 6,357 Latin American individuals | 2016-03-01 | skin_sensitivity_to_sun_phototype_score | -0,6038 | 0,08435 | 9,336E-13 |
| HERC2 | rs12913832 | 15_28120472 | 1 | Hair color | 6,357 Latin American individuals | 2016-03-01 | skin_sensitivity_to_sun | -0,2014 | 0,02666 | 5,023E-14 |
| HERC2 | rs12913832 | 15_28120472 | 1 | Diisocyanate-induced asthma | 74 European ancestry cases, 824 European ancestry controls | 2015-04-26 | hair_color_black | -0,682464991 | 0,060387345 | 3,07182E-30 |
| HERC2 | rs12913832 | 15_28120472 | 1 | Diisocyanate-induced asthma | 74 European ancestry cases, 824 European ancestry controls | 2015-04-26 | hair_color_blonde | 1,612929125 | 0,105609358 | 1,4661E-52 |
| HERC2 | rs12913832 | 15_28120472 | 1 | Diisocyanate-induced asthma | 74 European ancestry cases, 824 European ancestry controls | 2015-04-26 | hair_color_light | 1,42899686 | 0,096081437 | 1,75812E-49 |
| HERC2 | rs12913832 | 15_28120472 | 1 | Diisocyanate-induced asthma | 74 European ancestry cases, 824 European ancestry controls | 2015-04-26 | skin_sensitivity_to_sun_binary_1_5 | 0,547548959 | 0,083409094 | 1,30832E-11 |
| HERC2 | rs12913832 | 15_28120472 | 1 | Diisocyanate-induced asthma | 74 European ancestry cases, 824 European ancestry controls | 2015-04-26 | skin_sensitivity_to_sun_binary_12_45 | 0,32792722 | 0,04873666 | 9,66064E-12 |
| HERC2 | rs12913832 | 15_28120472 | 1 | Diisocyanate-induced asthma | 74 European ancestry cases, 824 European ancestry controls | 2015-04-26 | hair_color_phototype_score | -1,602 | 0,0837 | 7,26E-79 |
| HERC2 | rs12913832 | 15_28120472 | 1 | Diisocyanate-induced asthma | 74 European ancestry cases, 824 European ancestry controls | 2015-04-26 | hair_color | 0,3482 | 0,01591 | 2,33E-101 |
| HERC2 | rs12913832 | 15_28120472 | 1 | Diisocyanate-induced asthma | 74 European ancestry cases, 824 European ancestry controls | 2015-04-26 | phototype_score_categorical | -0,3257 | 0,01293 | 7,696E-132 |

| | | | | | | | | | | |
|-------|------------|-------------|-------|------------------------------------|----------------------------------------------------------------------------------------|------------|-----------------------------------------|--------------|-------------|-------------|
| HERC2 | rs12913832 | 15_28120472 | 1 | Diisocyanate-induced asthma | 74 European ancestry cases, 824 European ancestry controls | 2015-04-26 | phototype_score | -6,354 | 0,2363 | 1,195E-148 |
| HERC2 | rs12913832 | 15_28120472 | 1 | Diisocyanate-induced asthma | 74 European ancestry cases, 824 European ancestry controls | 2015-04-26 | skin_color_phototype_score | -0,8599 | 0,08023 | 1,629E-26 |
| HERC2 | rs12913832 | 15_28120472 | 1 | Diisocyanate-induced asthma | 74 European ancestry cases, 824 European ancestry controls | 2015-04-26 | skin_color | 0,1766 | 0,01625 | 3,242E-27 |
| HERC2 | rs12913832 | 15_28120472 | 1 | Diisocyanate-induced asthma | 74 European ancestry cases, 824 European ancestry controls | 2015-04-26 | skin_sensitivity_to_sun_phototype_score | -0,6038 | 0,08435 | 9,336E-13 |
| HERC2 | rs12913832 | 15_28120472 | 1 | Diisocyanate-induced asthma | 74 European ancestry cases, 824 European ancestry controls | 2015-04-26 | skin_sensitivity_to_sun | -0,2014 | 0,02666 | 5,023E-14 |
| HERC2 | rs8033755 | 15_28136400 | 0,727 | Alzheimer disease and age of onset | 2,478 European ancestry cases, 979 ancestry controls both from the same 1,070 families | 2016-02-02 | eye_color_dark | 1,857762803 | 0,284228973 | 9,75927E-13 |
| HERC2 | rs8033755 | 15_28136400 | 0,727 | Alzheimer disease and age of onset | 2,478 European ancestry cases, 979 ancestry controls both from the same 1,070 families | 2016-02-02 | eye_color_phototype_score | 1,871 | 0,2132 | 2,333E-18 |
| HERC2 | rs8033755 | 15_28136400 | 0,727 | Alzheimer disease and age of onset | 2,478 European ancestry cases, 979 ancestry controls both from the same 1,070 families | 2016-02-02 | eye_color | -0,5907 | 0,06811 | 5,828E-18 |
| HERC2 | rs12916300 | 15_28165345 | 0,906 | Squamous cell carcinoma | 6,891 European ancestry cases, 54,566 European ancestry controls | 2016-01-29 | hair_color_black | -0,613312498 | 0,060852699 | 1,93109E-24 |
| HERC2 | rs12916300 | 15_28165345 | 0,906 | Squamous cell carcinoma | 6,891 European ancestry cases, 54,566 European ancestry controls | 2016-01-29 | hair_color_blonde | 1,591720886 | 0,108874251 | 1,54017E-47 |
| HERC2 | rs12916300 | 15_28165345 | 0,906 | Squamous cell carcinoma | 6,891 European ancestry cases, 54,566 European ancestry controls | 2016-01-29 | hair_color_light | 1,379373469 | 0,09911836 | 4,99806E-43 |
| HERC2 | rs12916300 | 15_28165345 | 0,906 | Squamous cell carcinoma | 6,891 European ancestry cases, 54,566 European ancestry controls | 2016-01-29 | skin_sensitivity_to_sun_binary_1_5 | 0,462054089 | 0,085116648 | 2,48026E-08 |
| HERC2 | rs12916300 | 15_28165345 | 0,906 | Squamous cell carcinoma | 6,891 European ancestry cases, 54,566 European ancestry controls | 2016-01-29 | skin_sensitivity_to_sun_binary_12_45 | 0,298591644 | 0,05069064 | 2,57846E-09 |

| | | | | | | | | | | |
|-------|------------|-------------|-------|-------------------------|--------------------------------------------------------------------|------------|-----------------------------------------|--------------|-------------|-------------|
| HERC2 | rs12916300 | 15_28165345 | 0,906 | Squamous cell carcinoma | 6,891 European ancestry cases, 54,566 European ancestry controls | 2016-01-29 | hair_color_phototype_score | -1,494 | 0,08728 | 1,335E-63 |
| HERC2 | rs12916300 | 15_28165345 | 0,906 | Squamous cell carcinoma | 6,891 European ancestry cases, 54,566 European ancestry controls | 2016-01-29 | hair_color | 0,3258 | 0,01685 | 5,407E-80 |
| HERC2 | rs12916300 | 15_28165345 | 0,906 | Squamous cell carcinoma | 6,891 European ancestry cases, 54,566 European ancestry controls | 2016-01-29 | phototype_score_categorical | -0,2974 | 0,01366 | 9,028E-100 |
| HERC2 | rs12916300 | 15_28165345 | 0,906 | Squamous cell carcinoma | 6,891 European ancestry cases, 54,566 European ancestry controls | 2016-01-29 | phototype_score | -5,802 | 0,2494 | 6,45E-113 |
| HERC2 | rs12916300 | 15_28165345 | 0,906 | Squamous cell carcinoma | 6,891 European ancestry cases, 54,566 European ancestry controls | 2016-01-29 | skin_color_phototype_score | -0,7713 | 0,08393 | 6,009E-20 |
| HERC2 | rs12916300 | 15_28165345 | 0,906 | Squamous cell carcinoma | 6,891 European ancestry cases, 54,566 European ancestry controls | 2016-01-29 | skin_color | 0,1588 | 0,01704 | 1,829E-20 |
| HERC2 | rs12916300 | 15_28165345 | 0,906 | Squamous cell carcinoma | 6,891 European ancestry cases, 54,566 European ancestry controls | 2016-01-29 | skin_sensitivity_to_sun_phototype_score | -0,5585 | 0,08788 | 2,299E-10 |
| HERC2 | rs12916300 | 15_28165345 | 0,906 | Squamous cell carcinoma | 6,891 European ancestry cases, 54,566 European ancestry controls | 2016-01-29 | skin_sensitivity_to_sun | -0,1852 | 0,02785 | 3,286E-11 |
| HERC2 | rs12916300 | 15_28165345 | 0,906 | Basal cell carcinoma | 12.945 European ancestry cases, 274,252 European ancestry controls | 2016-08-19 | hair_color_black | -0,613312498 | 0,060852699 | 1,93109E-24 |
| HERC2 | rs12916300 | 15_28165345 | 0,906 | Basal cell carcinoma | 12.945 European ancestry cases, 274,252 European ancestry controls | 2016-08-19 | hair_color_blonde | 1,591720886 | 0,108874251 | 1,54017E-47 |
| HERC2 | rs12916300 | 15_28165345 | 0,906 | Basal cell carcinoma | 12.945 European ancestry cases, 274,252 European ancestry controls | 2016-08-19 | hair_color_light | 1,379373469 | 0,09911836 | 4,99806E-43 |
| HERC2 | rs12916300 | 15_28165345 | 0,906 | Basal cell carcinoma | 12.945 European ancestry cases, 274,252 European ancestry controls | 2016-08-19 | skin_sensitivity_to_sun_binary_1_5 | 0,462054089 | 0,085116648 | 2,48026E-08 |
| HERC2 | rs12916300 | 15_28165345 | 0,906 | Basal cell carcinoma | 12.945 European ancestry cases, 274,252 European ancestry controls | 2016-08-19 | skin_sensitivity_to_sun_binary_12_45 | 0,298591644 | 0,05069064 | 2,57846E-09 |
| HERC2 | rs12916300 | 15_28165345 | 0,906 | Basal cell carcinoma | 12.945 European ancestry cases, 274,252 European ancestry controls | 2016-08-19 | hair_color_phototype_score | -1,494 | 0,08728 | 1,335E-63 |

| | | | | | | | | | |
|-------|------------|-------------|----------------------------|--------------------------------------------------------------------|------------|-----------------------------------------|--------------|-------------|-------------|
| HERC2 | rs12916300 | 15_28165345 | 0,906 Basal cell carcinoma | 12.945 European ancestry cases, 274,252 European ancestry controls | 2016-08-19 | hair_color | 0,3258 | 0,01685 | 5,407E-80 |
| HERC2 | rs12916300 | 15_28165345 | 0,906 Basal cell carcinoma | 12.945 European ancestry cases, 274,252 European ancestry controls | 2016-08-19 | phototype_score_categorical | -0,2974 | 0,01366 | 9,028E-100 |
| HERC2 | rs12916300 | 15_28165345 | 0,906 Basal cell carcinoma | 12.945 European ancestry cases, 274,252 European ancestry controls | 2016-08-19 | phototype_score | -5,802 | 0,2494 | 6,45E-113 |
| HERC2 | rs12916300 | 15_28165345 | 0,906 Basal cell carcinoma | 12.945 European ancestry cases, 274,252 European ancestry controls | 2016-08-19 | skin_color_phototype_score | -0,7713 | 0,08393 | 6,009E-20 |
| HERC2 | rs12916300 | 15_28165345 | 0,906 Basal cell carcinoma | 12.945 European ancestry cases, 274,252 European ancestry controls | 2016-08-19 | skin_color | 0,1588 | 0,01704 | 1,829E-20 |
| HERC2 | rs12916300 | 15_28165345 | 0,906 Basal cell carcinoma | 12.945 European ancestry cases, 274,252 European ancestry controls | 2016-08-19 | skin_sensitivity_to_sun_phototype_score | -0,5585 | 0,08788 | 2,299E-10 |
| HERC2 | rs12916300 | 15_28165345 | 0,906 Basal cell carcinoma | 12.945 European ancestry cases, 274,252 European ancestry controls | 2016-08-19 | skin_sensitivity_to_sun | -0,1852 | 0,02785 | 3,286E-11 |
| HERC2 | rs12916300 | 15_28165345 | 0,906 Monobrow | 69,284 European ancestry individuals | 2016-05-16 | hair_color_black | -0,613312498 | 0,060852699 | 1,93109E-24 |
| HERC2 | rs12916300 | 15_28165345 | 0,906 Monobrow | 69,284 European ancestry individuals | 2016-05-16 | hair_color_blonde | 1,591720886 | 0,108874251 | 1,54017E-47 |
| HERC2 | rs12916300 | 15_28165345 | 0,906 Monobrow | 69,284 European ancestry individuals | 2016-05-16 | hair_color_light | 1,379373469 | 0,09911836 | 4,99806E-43 |
| HERC2 | rs12916300 | 15_28165345 | 0,906 Monobrow | 69,284 European ancestry individuals | 2016-05-16 | skin_sensitivity_to_sun_binary_1_5 | 0,462054089 | 0,085116648 | 2,48026E-08 |
| HERC2 | rs12916300 | 15_28165345 | 0,906 Monobrow | 69,284 European ancestry individuals | 2016-05-16 | skin_sensitivity_to_sun_binary_12_45 | 0,298591644 | 0,05069064 | 2,57846E-09 |
| HERC2 | rs12916300 | 15_28165345 | 0,906 Monobrow | 69,284 European ancestry individuals | 2016-05-16 | hair_color_phototype_score | -1,494 | 0,08728 | 1,335E-63 |
| HERC2 | rs12916300 | 15_28165345 | 0,906 Monobrow | 69,284 European ancestry individuals | 2016-05-16 | hair_color | 0,3258 | 0,01685 | 5,407E-80 |
| HERC2 | rs12916300 | 15_28165345 | 0,906 Monobrow | 69,284 European ancestry individuals | 2016-05-16 | phototype_score_categorical | -0,2974 | 0,01366 | 9,028E-100 |
| HERC2 | rs12916300 | 15_28165345 | 0,906 Monobrow | 69,284 European ancestry individuals | 2016-05-16 | phototype_score | -5,802 | 0,2494 | 6,45E-113 |
| HERC2 | rs12916300 | 15_28165345 | 0,906 Monobrow | 69,284 European ancestry individuals | 2016-05-16 | skin_color_phototype_score | -0,7713 | 0,08393 | 6,009E-20 |
| HERC2 | rs12916300 | 15_28165345 | 0,906 Monobrow | 69,284 European ancestry individuals | 2016-05-16 | skin_color | 0,1588 | 0,01704 | 1,829E-20 |

| | | | | | | | | | | |
|-------|-------------|-------------|-------|--------------------------------------|-----------------------------------------------------------------------|------------|-----------------------------------------|--------------|-------------|-------------|
| HERC2 | rs12916300 | 15_28165345 | 0,906 | Monobrow | 69,284 European ancestry individuals | 2016-05-16 | skin_sensitivity_to_sun_phototype_score | -0,5585 | 0,08788 | 2,299E-10 |
| HERC2 | rs12916300 | 15_28165345 | 0,906 | Monobrow | 69,284 European ancestry individuals | 2016-05-16 | skin_sensitivity_to_sun | -0,1852 | 0,02785 | 3,286E-11 |
| HERC2 | rs149963581 | 15_28212394 | 0,997 | Skin sensitivity to sun | 2,668 European ancestry individuals | 2015-05-12 | eye_color_dark | 1,404513081 | 0,097942372 | 1,06788E-48 |
| HERC2 | rs149963581 | 15_28212394 | 0,997 | Skin sensitivity to sun | 2,668 European ancestry individuals | 2015-05-12 | hair_color_blonde | -1,098121411 | 0,193463277 | 2,49802E-08 |
| HERC2 | rs149963581 | 15_28212394 | 0,997 | Skin sensitivity to sun | 2,668 European ancestry individuals | 2015-05-12 | eye_color_phototype_score | 1,542 | 0,09095 | 1,076E-62 |
| HERC2 | rs149963581 | 15_28212394 | 0,997 | Skin sensitivity to sun | 2,668 European ancestry individuals | 2015-05-12 | eye_color | -0,5022 | 0,02894 | 1,483E-65 |
| HERC2 | rs149963581 | 15_28212394 | 0,997 | Skin sensitivity to sun | 2,668 European ancestry individuals | 2015-05-12 | hair_color_phototype_score | 0,8627 | 0,1137 | 3,948E-14 |
| HERC2 | rs149963581 | 15_28212394 | 0,997 | Skin sensitivity to sun | 2,668 European ancestry individuals | 2015-05-12 | hair_color | -0,1841 | 0,02182 | 4,297E-17 |
| HERC2 | rs149963581 | 15_28212394 | 0,997 | Skin sensitivity to sun | 2,668 European ancestry individuals | 2015-05-12 | phototype_score_categorical | 0,1632 | 0,01794 | 1,354E-19 |
| HERC2 | rs149963581 | 15_28212394 | 0,997 | Skin sensitivity to sun | 2,668 European ancestry individuals | 2015-05-12 | phototype_score | 3,485 | 0,3297 | 7,675E-26 |
| HERC2 | rs8028689 | 15_28243742 | 1 | Multiple myeloma (IgH translocation) | up to 1,660 European ancestry cases, 7,306 European ancestry controls | 2013-03-17 | eye_color_dark | 1,405047272 | 0,097953538 | 9,7829E-49 |
| HERC2 | rs8028689 | 15_28243742 | 1 | Multiple myeloma (IgH translocation) | up to 1,660 European ancestry cases, 7,306 European ancestry controls | 2013-03-17 | hair_color_blonde | -1,096252762 | 0,193320651 | 2,5713E-08 |
| HERC2 | rs8028689 | 15_28243742 | 1 | Multiple myeloma (IgH translocation) | up to 1,660 European ancestry cases, 7,306 European ancestry controls | 2013-03-17 | eye_color_phototype_score | 1,541 | 0,09091 | 9,902E-63 |
| HERC2 | rs8028689 | 15_28243742 | 1 | Multiple myeloma (IgH translocation) | up to 1,660 European ancestry cases, 7,306 European ancestry controls | 2013-03-17 | eye_color | -0,5022 | 0,02893 | 1,36E-65 |
| HERC2 | rs8028689 | 15_28243742 | 1 | Multiple myeloma (IgH translocation) | up to 1,660 European ancestry cases, 7,306 European ancestry controls | 2013-03-17 | hair_color_phototype_score | 0,8612 | 0,1137 | 4,23E-14 |
| HERC2 | rs8028689 | 15_28243742 | 1 | Multiple myeloma (IgH translocation) | up to 1,660 European ancestry cases, 7,306 European ancestry controls | 2013-03-17 | hair_color | -0,1837 | 0,02181 | 4,671E-17 |
| HERC2 | rs8028689 | 15_28243742 | 1 | Multiple myeloma (IgH translocation) | up to 1,660 European ancestry cases, 7,306 European ancestry controls | 2013-03-17 | phototype_score_categorical | 0,1634 | 0,01794 | 1,188E-19 |

| | | | | | | | | | | |
|-------|------------|-------------|-------|--------------------------------------|----------------------------------------------------------------------------------------------------|------------|-----------------------------|--------------|-------------|-------------|
| HERC2 | rs8028689 | 15_28243742 | 1 | Multiple myeloma (IgH translocation) | up to 1,660 European ancestry cases, 7,306 European ancestry controls | 2013-03-17 | phototype_score | 3,482 | 0,3296 | 8,272E-26 |
| HERC2 | rs79097182 | 15_28266851 | 0,999 | Blond vs non-blond hair color | 2,888 European ancestry blond hair individuals, 4,203 European ancestry non-blond hair individuals | 2015-07-13 | eye_color_dark | 1,397378035 | 0,098460633 | 1,16784E-47 |
| HERC2 | rs79097182 | 15_28266851 | 0,999 | Blond vs non-blond hair color | 2,888 European ancestry blond hair individuals, 4,203 European ancestry non-blond hair individuals | 2015-07-13 | hair_color_blond | -1,089766974 | 0,194377637 | 3,6915E-08 |
| HERC2 | rs79097182 | 15_28266851 | 0,999 | Blond vs non-blond hair color | 2,888 European ancestry blond hair individuals, 4,203 European ancestry non-blond hair individuals | 2015-07-13 | eye_color_phototype_score | 1,533 | 0,09181 | 6,843E-61 |
| HERC2 | rs79097182 | 15_28266851 | 0,999 | Blond vs non-blond hair color | 2,888 European ancestry blond hair individuals, 4,203 European ancestry non-blond hair individuals | 2015-07-13 | eye_color | -0,4999 | 0,02923 | 9,47E-64 |
| HERC2 | rs79097182 | 15_28266851 | 0,999 | Blond vs non-blond hair color | 2,888 European ancestry blond hair individuals, 4,203 European ancestry non-blond hair individuals | 2015-07-13 | hair_color_phototype_score | 0,8638 | 0,1148 | 6,3E-14 |
| HERC2 | rs79097182 | 15_28266851 | 0,999 | Blond vs non-blond hair color | 2,888 European ancestry blond hair individuals, 4,203 European ancestry non-blond hair individuals | 2015-07-13 | hair_color | -0,1832 | 0,02204 | 1,199E-16 |
| HERC2 | rs79097182 | 15_28266851 | 0,999 | Blond vs non-blond hair color | 2,888 European ancestry blond hair individuals, 4,203 European ancestry non-blond hair individuals | 2015-07-13 | phototype_score_categorical | 0,1579 | 0,01812 | 3,887E-18 |
| HERC2 | rs79097182 | 15_28266851 | 0,999 | Blond vs non-blond hair color | 2,888 European ancestry blond hair individuals, 4,203 European ancestry non-blond hair individuals | 2015-07-13 | phototype_score | 3,404 | 0,3329 | 2,66E-24 |
| HERC2 | rs79097182 | 15_28266851 | 0,999 | Brown vs. non-brown hair color | 3,826 European ancestry brown hair individuals, 3,265 European ancestry non-brown hair individuals | 2015-07-13 | eye_color_dark | 1,397378035 | 0,098460633 | 1,16784E-47 |
| HERC2 | rs79097182 | 15_28266851 | 0,999 | Brown vs. non-brown hair color | 3,826 European ancestry brown hair individuals, 3,265 European ancestry non-brown hair individuals | 2015-07-13 | hair_color_blond | -1,089766974 | 0,194377637 | 3,6915E-08 |

| | | | | | | | | | | |
|-------|------------|-------------|-------|--------------------------------|----------------------------------------------------------------------------------------------------|------------|-----------------------------|--------------|-------------|-------------|
| HERC2 | rs79097182 | 15_28266851 | 0,999 | Brown vs. non-brown hair color | 3,826 European ancestry brown hair individuals, 3,265 European ancestry non-brown hair individuals | 2015-07-13 | eye_color_phototype_score | 1,533 | 0,09181 | 6,843E-61 |
| HERC2 | rs79097182 | 15_28266851 | 0,999 | Brown vs. non-brown hair color | 3,826 European ancestry brown hair individuals, 3,265 European ancestry non-brown hair individuals | 2015-07-13 | eye_color | -0,4999 | 0,02923 | 9,47E-64 |
| HERC2 | rs79097182 | 15_28266851 | 0,999 | Brown vs. non-brown hair color | 3,826 European ancestry brown hair individuals, 3,265 European ancestry non-brown hair individuals | 2015-07-13 | hair_color_phototype_score | 0,8638 | 0,1148 | 6,3E-14 |
| HERC2 | rs79097182 | 15_28266851 | 0,999 | Brown vs. non-brown hair color | 3,826 European ancestry brown hair individuals, 3,265 European ancestry non-brown hair individuals | 2015-07-13 | hair_color | -0,1832 | 0,02204 | 1,199E-16 |
| HERC2 | rs79097182 | 15_28266851 | 0,999 | Brown vs. non-brown hair color | 3,826 European ancestry brown hair individuals, 3,265 European ancestry non-brown hair individuals | 2015-07-13 | phototype_score_categorical | 0,1579 | 0,01812 | 3,887E-18 |
| HERC2 | rs79097182 | 15_28266851 | 0,999 | Brown vs. non-brown hair color | 3,826 European ancestry brown hair individuals, 3,265 European ancestry non-brown hair individuals | 2015-07-13 | phototype_score | 3,404 | 0,3329 | 2,66E-24 |
| HERC2 | rs79097182 | 15_28266851 | 0,999 | Light vs. dark hair color | 3,069 European ancestry light hair individuals, 4,022 European ancestry dark hair individuals | 2015-07-13 | eye_color_dark | 1,397378035 | 0,098460633 | 1,16784E-47 |
| HERC2 | rs79097182 | 15_28266851 | 0,999 | Light vs. dark hair color | 3,069 European ancestry light hair individuals, 4,022 European ancestry dark hair individuals | 2015-07-13 | hair_color_blonde | -1,089766974 | 0,194377637 | 3,6915E-08 |
| HERC2 | rs79097182 | 15_28266851 | 0,999 | Light vs. dark hair color | 3,069 European ancestry light hair individuals, 4,022 European ancestry dark hair individuals | 2015-07-13 | eye_color_phototype_score | 1,533 | 0,09181 | 6,843E-61 |
| HERC2 | rs79097182 | 15_28266851 | 0,999 | Light vs. dark hair color | 3,069 European ancestry light hair individuals, 4,022 European ancestry dark hair individuals | 2015-07-13 | eye_color | -0,4999 | 0,02923 | 9,47E-64 |
| HERC2 | rs79097182 | 15_28266851 | 0,999 | Light vs. dark hair color | 3,069 European ancestry light hair individuals, 4,022 European ancestry dark hair individuals | 2015-07-13 | hair_color_phototype_score | 0,8638 | 0,1148 | 6,3E-14 |

| | | | | | | | | | | |
|-------|------------|-------------|-------|---------------------------|-----------------------------------------------------------------------------------------------|------------|-----------------------------|--------------|-------------|-------------|
| HERC2 | rs79097182 | 15_28266851 | 0,999 | Light vs. dark hair color | 3,069 European ancestry light hair individuals, 4,022 European ancestry dark hair individuals | 2015-07-13 | hair_color | -0,1832 | 0,02204 | 1,199E-16 |
| HERC2 | rs79097182 | 15_28266851 | 0,999 | Light vs. dark hair color | 3,069 European ancestry light hair individuals, 4,022 European ancestry dark hair individuals | 2015-07-13 | phototype_score_categorical | 0,1579 | 0,01812 | 3,887E-18 |
| HERC2 | rs79097182 | 15_28266851 | 0,999 | Light vs. dark hair color | 3,069 European ancestry light hair individuals, 4,022 European ancestry dark hair individuals | 2015-07-13 | phototype_score | 3,404 | 0,3329 | 2,66E-24 |
| HERC2 | rs916977 | 15_28268218 | 1 | Iris color | 925 Erasmus Ruchpen individuals, 481 European ancestry females | 2008-01-24 | eye_color_dark | 1,489319201 | 0,064350262 | 7,3755E-131 |
| HERC2 | rs916977 | 15_28268218 | 1 | Iris color | 925 Erasmus Ruchpen individuals, 481 European ancestry females | 2008-01-24 | hair_color_black | 0,361101771 | 0,053833125 | 1,37521E-11 |
| HERC2 | rs916977 | 15_28268218 | 1 | Iris color | 925 Erasmus Ruchpen individuals, 481 European ancestry females | 2008-01-24 | hair_color_blonde | -1,051514203 | 0,11871104 | 1,60742E-18 |
| HERC2 | rs916977 | 15_28268218 | 1 | Iris color | 925 Erasmus Ruchpen individuals, 481 European ancestry females | 2008-01-24 | hair_color_light | -0,859762976 | 0,105772797 | 7,93757E-16 |
| HERC2 | rs916977 | 15_28268218 | 1 | Iris color | 925 Erasmus Ruchpen individuals, 481 European ancestry females | 2008-01-24 | eye_color_phototype_score | 1,743 | 0,06641 | 3,097E-142 |
| HERC2 | rs916977 | 15_28268218 | 1 | Iris color | 925 Erasmus Ruchpen individuals, 481 European ancestry females | 2008-01-24 | eye_color | -0,5781 | 0,02103 | 6,788E-155 |
| HERC2 | rs916977 | 15_28268218 | 1 | Iris color | 925 Erasmus Ruchpen individuals, 481 European ancestry females | 2008-01-24 | hair_color_phototype_score | 0,8566 | 0,08582 | 3,046E-23 |
| HERC2 | rs916977 | 15_28268218 | 1 | Iris color | 925 Erasmus Ruchpen individuals, 481 European ancestry females | 2008-01-24 | hair_color | -0,1799 | 0,01646 | 1,659E-27 |
| HERC2 | rs916977 | 15_28268218 | 1 | Iris color | 925 Erasmus Ruchpen individuals, 481 European ancestry females | 2008-01-24 | phototype_score_categorical | 0,1832 | 0,01346 | 1,83E-41 |
| HERC2 | rs916977 | 15_28268218 | 1 | Iris color | 925 Erasmus Ruchpen individuals, 481 European ancestry females | 2008-01-24 | phototype_score | 3,464 | 0,2477 | 1,32E-43 |

| | | | | | | | | | |
|-------|-----------|-------------|------------------------------|----------------------------------------------------------------|------------|-----------------------------|--------------|-------------|-------------|
| HERC2 | rs916977 | 15_28268218 | 1 Iris color | 925 Erasmus Ruchpen individuals, 481 European ancestry females | 2008-01-24 | skin_color_phototype_score | 0,4449 | 0,0808 | 3,835E-08 |
| HERC2 | rs916977 | 15_28268218 | 1 Iris color | 925 Erasmus Ruchpen individuals, 481 European ancestry females | 2008-01-24 | skin_color | -0,0929 | 0,01637 | 1,457E-08 |
| HERC2 | rs1667394 | 15_28285036 | 1 Blond vs. brown hair color | 2,986 European ancestry individuals | 2007-10-21 | eye_color_dark | 1,550061248 | 0,063926988 | 1,3345E-145 |
| HERC2 | rs1667394 | 15_28285036 | 1 Blond vs. brown hair color | 2,986 European ancestry individuals | 2007-10-21 | hair_color_black | 0,399395934 | 0,053810341 | 6,91181E-14 |
| HERC2 | rs1667394 | 15_28285036 | 1 Blond vs. brown hair color | 2,986 European ancestry individuals | 2007-10-21 | hair_color_blond | -1,055411374 | 0,115661638 | 1,16699E-19 |
| HERC2 | rs1667394 | 15_28285036 | 1 Blond vs. brown hair color | 2,986 European ancestry individuals | 2007-10-21 | hair_color_light | -0,882563211 | 0,103895629 | 3,18702E-17 |
| HERC2 | rs1667394 | 15_28285036 | 1 Blond vs. brown hair color | 2,986 European ancestry individuals | 2007-10-21 | eye_color_phototype_score | 1,843 | 0,0652 | 4,656E-163 |
| HERC2 | rs1667394 | 15_28285036 | 1 Blond vs. brown hair color | 2,986 European ancestry individuals | 2007-10-21 | eye_color | -0,6088 | 0,02065 | 2,803E-176 |
| HERC2 | rs1667394 | 15_28285036 | 1 Blond vs. brown hair color | 2,986 European ancestry individuals | 2007-10-21 | hair_color_phototype_score | 0,9337 | 0,08488 | 7,968E-28 |
| HERC2 | rs1667394 | 15_28285036 | 1 Blond vs. brown hair color | 2,986 European ancestry individuals | 2007-10-21 | hair_color | -0,1951 | 0,01627 | 1,148E-32 |
| HERC2 | rs1667394 | 15_28285036 | 1 Blond vs. brown hair color | 2,986 European ancestry individuals | 2007-10-21 | phototype_score_categorical | 0,1936 | 0,0133 | 5,01E-47 |
| HERC2 | rs1667394 | 15_28285036 | 1 Blond vs. brown hair color | 2,986 European ancestry individuals | 2007-10-21 | phototype_score | 3,747 | 0,2445 | 8,219E-52 |
| HERC2 | rs1667394 | 15_28285036 | 1 Blond vs. brown hair color | 2,986 European ancestry individuals | 2007-10-21 | skin_color_phototype_score | 0,461 | 0,08006 | 9,042E-09 |
| HERC2 | rs1667394 | 15_28285036 | 1 Blond vs. brown hair color | 2,986 European ancestry individuals | 2007-10-21 | skin_color | -0,09633 | 0,01622 | 3,048E-09 |
| HERC2 | rs1667394 | 15_28285036 | 1 Blue vs. green eyes | 2,986 individuals | 2007-10-21 | eye_color_dark | 1,550061248 | 0,063926988 | 1,3345E-145 |
| HERC2 | rs1667394 | 15_28285036 | 1 Blue vs. green eyes | 2,986 individuals | 2007-10-21 | hair_color_black | 0,399395934 | 0,053810341 | 6,91181E-14 |
| HERC2 | rs1667394 | 15_28285036 | 1 Blue vs. green eyes | 2,986 individuals | 2007-10-21 | hair_color_blond | -1,055411374 | 0,115661638 | 1,16699E-19 |
| HERC2 | rs1667394 | 15_28285036 | 1 Blue vs. green eyes | 2,986 individuals | 2007-10-21 | hair_color_light | -0,882563211 | 0,103895629 | 3,18702E-17 |
| HERC2 | rs1667394 | 15_28285036 | 1 Blue vs. green eyes | 2,986 individuals | 2007-10-21 | eye_color_phototype_score | 1,843 | 0,0652 | 4,656E-163 |
| HERC2 | rs1667394 | 15_28285036 | 1 Blue vs. green eyes | 2,986 individuals | 2007-10-21 | eye_color | -0,6088 | 0,02065 | 2,803E-176 |
| HERC2 | rs1667394 | 15_28285036 | 1 Blue vs. green eyes | 2,986 individuals | 2007-10-21 | hair_color_phototype_score | 0,9337 | 0,08488 | 7,968E-28 |
| HERC2 | rs1667394 | 15_28285036 | 1 Blue vs. green eyes | 2,986 individuals | 2007-10-21 | hair_color | -0,1951 | 0,01627 | 1,148E-32 |
| HERC2 | rs1667394 | 15_28285036 | 1 Blue vs. green eyes | 2,986 individuals | 2007-10-21 | phototype_score_categorical | 0,1936 | 0,0133 | 5,01E-47 |
| HERC2 | rs1667394 | 15_28285036 | 1 Blue vs. green eyes | 2,986 individuals | 2007-10-21 | phototype_score | 3,747 | 0,2445 | 8,219E-52 |

| | | | | | | | | | |
|-------|-----------|-------------|-----------------------|-----------------------------------|------------|-----------------------------|--------------|-------------|-------------|
| HERC2 | rs1667394 | 15_28285036 | 1 Blue vs. green eyes | 2,986 individuals | 2007-10-21 | skin_color_phototype_score | 0,461 | 0,08006 | 9,042E-09 |
| HERC2 | rs1667394 | 15_28285036 | 1 Blue vs. green eyes | 2,986 individuals | 2007-10-21 | skin_color | -0,09633 | 0,01622 | 3,048E-09 |
| HERC2 | rs1667394 | 15_28285036 | 1 Blue vs. brown eyes | 2,986 individuals | 2007-10-21 | eye_color_dark | 1,550061248 | 0,063926988 | 1,3345E-145 |
| HERC2 | rs1667394 | 15_28285036 | 1 Blue vs. brown eyes | 2,986 individuals | 2007-10-21 | hair_color_black | 0,399395934 | 0,053810341 | 6,91181E-14 |
| HERC2 | rs1667394 | 15_28285036 | 1 Blue vs. brown eyes | 2,986 individuals | 2007-10-21 | hair_color_blonde | -1,055411374 | 0,115661638 | 1,16699E-19 |
| HERC2 | rs1667394 | 15_28285036 | 1 Blue vs. brown eyes | 2,986 individuals | 2007-10-21 | hair_color_light | -0,882563211 | 0,103895629 | 3,18702E-17 |
| HERC2 | rs1667394 | 15_28285036 | 1 Blue vs. brown eyes | 2,986 individuals | 2007-10-21 | eye_color_phototype_score | 1,843 | 0,0652 | 4,656E-163 |
| HERC2 | rs1667394 | 15_28285036 | 1 Blue vs. brown eyes | 2,986 individuals | 2007-10-21 | eye_color | -0,6088 | 0,02065 | 2,803E-176 |
| HERC2 | rs1667394 | 15_28285036 | 1 Blue vs. brown eyes | 2,986 individuals | 2007-10-21 | hair_color_phototype_score | 0,9337 | 0,08488 | 7,968E-28 |
| HERC2 | rs1667394 | 15_28285036 | 1 Blue vs. brown eyes | 2,986 individuals | 2007-10-21 | hair_color | -0,1951 | 0,01627 | 1,148E-32 |
| HERC2 | rs1667394 | 15_28285036 | 1 Blue vs. brown eyes | 2,986 individuals | 2007-10-21 | phototype_score_categorical | 0,1936 | 0,0133 | 5,01E-47 |
| HERC2 | rs1667394 | 15_28285036 | 1 Blue vs. brown eyes | 2,986 individuals | 2007-10-21 | phototype_score | 3,747 | 0,2445 | 8,219E-52 |
| HERC2 | rs1667394 | 15_28285036 | 1 Blue vs. brown eyes | 2,986 individuals | 2007-10-21 | skin_color_phototype_score | 0,461 | 0,08006 | 9,042E-09 |
| HERC2 | rs1667394 | 15_28285036 | 1 Blue vs. brown eyes | 2,986 individuals | 2007-10-21 | skin_color | -0,09633 | 0,01622 | 3,048E-09 |
| HERC2 | rs1667394 | 15_28285036 | 1 Eye color | 175 European ancestry individuals | 2012-10-31 | eye_color_dark | 1,550061248 | 0,063926988 | 1,3345E-145 |
| HERC2 | rs1667394 | 15_28285036 | 1 Eye color | 175 European ancestry individuals | 2012-10-31 | hair_color_black | 0,399395934 | 0,053810341 | 6,91181E-14 |
| HERC2 | rs1667394 | 15_28285036 | 1 Eye color | 175 European ancestry individuals | 2012-10-31 | hair_color_blonde | -1,055411374 | 0,115661638 | 1,16699E-19 |
| HERC2 | rs1667394 | 15_28285036 | 1 Eye color | 175 European ancestry individuals | 2012-10-31 | hair_color_light | -0,882563211 | 0,103895629 | 3,18702E-17 |
| HERC2 | rs1667394 | 15_28285036 | 1 Eye color | 175 European ancestry individuals | 2012-10-31 | eye_color_phototype_score | 1,843 | 0,0652 | 4,656E-163 |
| HERC2 | rs1667394 | 15_28285036 | 1 Eye color | 175 European ancestry individuals | 2012-10-31 | eye_color | -0,6088 | 0,02065 | 2,803E-176 |
| HERC2 | rs1667394 | 15_28285036 | 1 Eye color | 175 European ancestry individuals | 2012-10-31 | hair_color_phototype_score | 0,9337 | 0,08488 | 7,968E-28 |
| HERC2 | rs1667394 | 15_28285036 | 1 Eye color | 175 European ancestry individuals | 2012-10-31 | hair_color | -0,1951 | 0,01627 | 1,148E-32 |
| HERC2 | rs1667394 | 15_28285036 | 1 Eye color | 175 European ancestry individuals | 2012-10-31 | phototype_score_categorical | 0,1936 | 0,0133 | 5,01E-47 |
| HERC2 | rs1667394 | 15_28285036 | 1 Eye color | 175 European ancestry individuals | 2012-10-31 | phototype_score | 3,747 | 0,2445 | 8,219E-52 |
| HERC2 | rs1667394 | 15_28285036 | 1 Eye color | 175 European ancestry individuals | 2012-10-31 | skin_color_phototype_score | 0,461 | 0,08006 | 9,042E-09 |
| HERC2 | rs1667394 | 15_28285036 | 1 Eye color | 175 European ancestry individuals | 2012-10-31 | skin_color | -0,09633 | 0,01622 | 3,048E-09 |

| | | | | | | | | | | |
|--------------|------------|-------------|-------|--------------------------------------------|------------------------------------------------------------------|------------|-----------------------------------------|--------------|-------------|-------------|
| HERC2 | rs1667392 | 15_28288419 | 0,898 | Skin colour saturation | 5,857 European ancestry individuals | 2015-05-12 | hair_color_black | -0,653418337 | 0,064316767 | 9,98327E-25 |
| HERC2 | rs1667392 | 15_28288419 | 0,898 | Skin colour saturation | 5,857 European ancestry individuals | 2015-05-12 | hair_color_blonde | 1,417887843 | 0,104931483 | 2,50548E-39 |
| HERC2 | rs1667392 | 15_28288419 | 0,898 | Skin colour saturation | 5,857 European ancestry individuals | 2015-05-12 | hair_color_light | 1,29485693 | 0,097982892 | 6,6389E-38 |
| HERC2 | rs1667392 | 15_28288419 | 0,898 | Skin colour saturation | 5,857 European ancestry individuals | 2015-05-12 | skin_sensitivity_to_sun_binary_1_5 | 0,52143718 | 0,090277969 | 2,75389E-09 |
| HERC2 | rs1667392 | 15_28288419 | 0,898 | Skin colour saturation | 5,857 European ancestry individuals | 2015-05-12 | skin_sensitivity_to_sun_binary_12_45 | 0,318393535 | 0,05307111 | 1,27129E-09 |
| HERC2 | rs1667392 | 15_28288419 | 0,898 | Skin colour saturation | 5,857 European ancestry individuals | 2015-05-12 | hair_color_phototype_score | -1,549 | 0,09099 | 9,194E-63 |
| HERC2 | rs1667392 | 15_28288419 | 0,898 | Skin colour saturation | 5,857 European ancestry individuals | 2015-05-12 | hair_color_phototype_score_categorical | 0,3348 | 0,01744 | 1,198E-78 |
| HERC2 | rs1667392 | 15_28288419 | 0,898 | Skin colour saturation | 5,857 European ancestry individuals | 2015-05-12 | phototype_score | -0,3162 | 0,01418 | 8,591E-104 |
| HERC2 | rs1667392 | 15_28288419 | 0,898 | Skin colour saturation | 5,857 European ancestry individuals | 2015-05-12 | phototype_score | -6,123 | 0,2586 | 5,533E-116 |
| HERC2 | rs1667392 | 15_28288419 | 0,898 | Skin colour saturation | 5,857 European ancestry individuals | 2015-05-12 | skin_color_phototype_score | -0,7935 | 0,08741 | 1,705E-19 |
| HERC2 | rs1667392 | 15_28288419 | 0,898 | Skin colour saturation | 5,857 European ancestry individuals | 2015-05-12 | skin_color | 0,1647 | 0,01769 | 2,06E-20 |
| HERC2 | rs1667392 | 15_28288419 | 0,898 | Skin colour saturation | 5,857 European ancestry individuals | 2015-05-12 | skin_sensitivity_to_sun_phototype_score | -0,6035 | 0,09215 | 6,545E-11 |
| HERC2 | rs1667392 | 15_28288419 | 0,898 | Skin colour saturation | 5,857 European ancestry individuals | 2015-05-12 | skin_sensitivity_to_sun | -0,1983 | 0,02914 | 1,156E-11 |
| SPG7 - RPL13 | rs67689854 | 16_89558819 | 0,902 | Stromal-cell-derived factor 1 alpha levels | 5,998 Finnish ancestry individuals | 2016-12-13 | hair_color_red | 2,284779235 | 0,278337158 | 7,88789E-11 |
| SPATA33 | rs35063026 | 16_89669749 | 0,987 | Facial pigmentation | 2,844 European ancestry individuals | 2015-02-23 | hair_color_light | 1,261854683 | 0,178475043 | 1,90226E-10 |
| SPATA33 | rs35063026 | 16_89669749 | 0,987 | Facial pigmentation | 2,844 European ancestry individuals | 2015-02-23 | hair_color_red | 3,112967899 | 0,309660852 | 5,4415E-17 |
| SPATA33 | rs35063026 | 16_89669749 | 0,987 | Facial pigmentation | 2,844 European ancestry individuals | 2015-02-23 | freckling_phototype_score | -0,8052 | 0,1456 | 3,362E-08 |
| SPATA33 | rs35063026 | 16_89669749 | 0,987 | Facial pigmentation | 2,844 European ancestry individuals | 2015-02-23 | hair_color | 0,3982 | 0,0513 | 9,994E-15 |
| SPATA33 | rs35063026 | 16_89669749 | 0,987 | Squamous cell carcinoma | 6,891 European ancestry cases, 54,566 European ancestry controls | 2016-01-29 | hair_color_light | 1,261854683 | 0,178475043 | 1,90226E-10 |
| SPATA33 | rs35063026 | 16_89669749 | 0,987 | Squamous cell carcinoma | 6,891 European ancestry cases, 54,566 European ancestry controls | 2016-01-29 | hair_color_red | 3,112967899 | 0,309660852 | 5,4415E-17 |

| | | | | | | | | | | |
|---------|------------|-------------|-------|--------------------------|-------------------------------------------------------------------|------------|-----------------------------|-------------|-------------|-------------|
| SPATA33 | rs35063026 | 16_89669749 | 0,987 | Squamous cell carcinoma | 6,891 European ancestry cases, 54,566 European ancestry controls | 2016-01-29 | freckling_phototype_score | -0,8052 | 0,1456 | 3,362E-08 |
| SPATA33 | rs35063026 | 16_89669749 | 0,987 | Squamous cell carcinoma | 6,891 European ancestry cases, 54,566 European ancestry controls | 2016-01-29 | hair_color | 0,3982 | 0,0513 | 9,994E-15 |
| CDK10 | rs258322 | 16_89689495 | 1 | Black vs. red hair color | 2,287 European ancestry female individuals | 2008-05-16 | hair_color_red | 2,431226503 | 0,267940742 | 1,22767E-13 |
| CDK10 | rs258322 | 16_89689495 | 1 | Melanoma | 1,539 European ancestry cases, 3,917 European ancestry controls | 2009-07-05 | hair_color_red | 2,431226503 | 0,267940742 | 1,22767E-13 |
| CDK10 | rs258322 | 16_89689495 | 1 | Melanoma | 2,804 European ancestry cases, 7,618 European ancestry controls | 2011-10-09 | hair_color_red | 2,431226503 | 0,267940742 | 1,22767E-13 |
| CDK10 | rs258322 | 16_89689495 | 1 | Melanoma | 494 European ancestry cases, 5,628 European ancestry controls | 2014-06-30 | hair_color_red | 2,431226503 | 0,267940742 | 1,22767E-13 |
| CDK10 | rs258322 | 16_89689495 | 1 | Melanoma | 4,842 European ancestry cases, 286,565 European ancestry controls | 2017-02-09 | hair_color_red | 2,431226503 | 0,267940742 | 1,22767E-13 |
| CDK10 | rs258322 | 16_89689495 | 1 | Melanoma | 4,842 European ancestry cases, 286,565 European ancestry controls | 2017-02-09 | hair_color_red | 2,431226503 | 0,267940742 | 1,22767E-13 |
| FANCA | rs12931267 | 16_89752324 | 0,989 | Hair color | 9,126 European ancestry individuals | 2010-06-24 | hair_color_light | 1,320405148 | 0,177803917 | 2,58682E-11 |
| FANCA | rs12931267 | 16_89752324 | 0,989 | Hair color | 9,126 European ancestry individuals | 2010-06-24 | hair_color_red | 3,218082454 | 0,311518866 | 3,87081E-18 |
| FANCA | rs12931267 | 16_89752324 | 0,989 | Hair color | 9,126 European ancestry individuals | 2010-06-24 | hair_color_phototype_score | -1,601 | 0,2704 | 3,423E-09 |
| FANCA | rs12931267 | 16_89752324 | 0,989 | Hair color | 9,126 European ancestry individuals | 2010-06-24 | hair_color | 0,4416 | 0,05176 | 1,895E-17 |
| FANCA | rs12931267 | 16_89752324 | 0,989 | Hair color | 9,126 European ancestry individuals | 2010-06-24 | phototype_score_categorical | -0,2496 | 0,04294 | 6,515E-09 |
| FANCA | rs12931267 | 16_89752324 | 0,989 | Hair color | 9,126 European ancestry individuals | 2010-06-24 | phototype_score | -4,969 | 0,7908 | 3,601E-10 |
| FANCA | rs12931267 | 16_89752324 | 0,989 | Hair color | 9,126 European ancestry individuals | 2010-06-24 | hair_color_light | 1,320405148 | 0,177803917 | 2,58682E-11 |
| FANCA | rs12931267 | 16_89752324 | 0,989 | Hair color | 9,126 European ancestry individuals | 2010-06-24 | hair_color_red | 3,218082454 | 0,311518866 | 3,87081E-18 |
| FANCA | rs12931267 | 16_89752324 | 0,989 | Hair color | 9,126 European ancestry individuals | 2010-06-24 | hair_color_phototype_score | -1,601 | 0,2704 | 3,423E-09 |
| FANCA | rs12931267 | 16_89752324 | 0,989 | Hair color | 9,126 European ancestry individuals | 2010-06-24 | hair_color | 0,4416 | 0,05176 | 1,895E-17 |

| | | | | | | | | | | |
|-------|------------|-------------|-------|-------------------------|--------------------------------------|------------|-----------------------------|-------------|-------------|-------------|
| FANCA | rs12931267 | 16_89752324 | 0,989 | Hair color | 9,126 European ancestry individuals | 2010-06-24 | phototype_score_categorical | -0,2496 | 0,04294 | 6,515E-09 |
| FANCA | rs12931267 | 16_89752324 | 0,989 | Hair color | 9,126 European ancestry individuals | 2010-06-24 | phototype_score | -4,969 | 0,7908 | 3,601E-10 |
| FANCA | rs12931267 | 16_89752324 | 0,989 | Freckling | 9,126 European ancestry individuals | 2010-06-24 | hair_color_light | 1,320405148 | 0,177803917 | 2,58682E-11 |
| FANCA | rs12931267 | 16_89752324 | 0,989 | Freckling | 9,126 European ancestry individuals | 2010-06-24 | hair_color_red | 3,218082454 | 0,311518866 | 3,87081E-18 |
| FANCA | rs12931267 | 16_89752324 | 0,989 | Freckling | 9,126 European ancestry individuals | 2010-06-24 | hair_color_phototype_score | -1,601 | 0,2704 | 3,423E-09 |
| FANCA | rs12931267 | 16_89752324 | 0,989 | Freckling | 9,126 European ancestry individuals | 2010-06-24 | hair_color | 0,4416 | 0,05176 | 1,895E-17 |
| FANCA | rs12931267 | 16_89752324 | 0,989 | Freckling | 9,126 European ancestry individuals | 2010-06-24 | phototype_score_categorical | -0,2496 | 0,04294 | 6,515E-09 |
| FANCA | rs12931267 | 16_89752324 | 0,989 | Freckling | 9,126 European ancestry individuals | 2010-06-24 | phototype_score | -4,969 | 0,7908 | 3,601E-10 |
| FANCA | rs12931267 | 16_89752324 | 0,989 | Skin sensitivity to sun | 2,668 European ancestry individuals | 2015-05-12 | hair_color_light | 1,320405148 | 0,177803917 | 2,58682E-11 |
| FANCA | rs12931267 | 16_89752324 | 0,989 | Skin sensitivity to sun | 2,668 European ancestry individuals | 2015-05-12 | hair_color_red | 3,218082454 | 0,311518866 | 3,87081E-18 |
| FANCA | rs12931267 | 16_89752324 | 0,989 | Skin sensitivity to sun | 2,668 European ancestry individuals | 2015-05-12 | hair_color_phototype_score | -1,601 | 0,2704 | 3,423E-09 |
| FANCA | rs12931267 | 16_89752324 | 0,989 | Skin sensitivity to sun | 2,668 European ancestry individuals | 2015-05-12 | hair_color | 0,4416 | 0,05176 | 1,895E-17 |
| FANCA | rs12931267 | 16_89752324 | 0,989 | Skin sensitivity to sun | 2,668 European ancestry individuals | 2015-05-12 | phototype_score_categorical | -0,2496 | 0,04294 | 6,515E-09 |
| FANCA | rs12931267 | 16_89752324 | 0,989 | Skin sensitivity to sun | 2,668 European ancestry individuals | 2015-05-12 | phototype_score | -4,969 | 0,7908 | 3,601E-10 |
| FANCA | rs12921383 | 16_89793345 | 0,976 | Homocysteine levels | 44,147 European ancestry individuals | 2013-07-03 | hair_color_light | 1,058742793 | 0,162863658 | 3,16982E-09 |
| FANCA | rs12921383 | 16_89793345 | 0,976 | Homocysteine levels | 44,147 European ancestry individuals | 2013-07-03 | hair_color_red | 2,69263242 | 0,279622763 | 1,8452E-15 |
| FANCA | rs12921383 | 16_89793345 | 0,976 | Homocysteine levels | 44,147 European ancestry individuals | 2013-07-03 | hair_color_phototype_score | -1,309 | 0,2299 | 1,328E-08 |
| FANCA | rs12921383 | 16_89793345 | 0,976 | Homocysteine levels | 44,147 European ancestry individuals | 2013-07-03 | hair_color | 0,3434 | 0,04407 | 7,992E-15 |
| FANCA | rs12921383 | 16_89793345 | 0,976 | Homocysteine levels | 44,147 European ancestry individuals | 2013-07-03 | phototype_score | -3,817 | 0,6741 | 1,581E-08 |
| MC1R | rs1805007 | 16_89919709 | 1 | Freckles | 2,986 individuals | 2007-10-21 | hair_color_light | 1,469762327 | 0,173999225 | 4,61787E-14 |
| MC1R | rs1805007 | 16_89919709 | 1 | Freckles | 2,986 individuals | 2007-10-21 | hair_color_red | 3,615618262 | 0,326979594 | 7,65019E-22 |
| MC1R | rs1805007 | 16_89919709 | 1 | Freckles | 2,986 individuals | 2007-10-21 | freckling_phototype_score | -0,8864 | 0,1483 | 2,437E-09 |
| MC1R | rs1805007 | 16_89919709 | 1 | Freckles | 2,986 individuals | 2007-10-21 | hair_color_phototype_score | -1,782 | 0,2726 | 6,917E-11 |

| | | | | | | | | | |
|------|-----------|-------------|-------------------------------|----------------------------------------|------------|---------------------------------|-------------|-------------|-------------|
| MC1R | rs1805007 | 16_89919709 | 1 Freckles | 2,986 individuals | 2007-10-21 | hair_color | 0,5 | 0,05211 | 1,281E-21 |
| MC1R | rs1805007 | 16_89919709 | 1 Freckles | 2,986 individuals | 2007-10-21 | phototype_score_cate gorical | -0,2699 | 0,04331 | 5,054E-10 |
| MC1R | rs1805007 | 16_89919709 | 1 Freckles | 2,986 individuals | 2007-10-21 | phototype_score | -5,34 | 0,7977 | 2,414E-11 |
| MC1R | rs1805007 | 16_89919709 | Blond vs. brown hair color | 2,986 European ancestry individuals | 2007-10-21 | hair_color_light | 1,469762327 | 0,173999225 | 4,61787E-14 |
| MC1R | rs1805007 | 16_89919709 | Blond vs. brown hair color | 2,986 European ancestry individuals | 2007-10-21 | hair_color_red | 3,615618262 | 0,326979594 | 7,65019E-22 |
| MC1R | rs1805007 | 16_89919709 | Blond vs. brown hair color | 2,986 European ancestry individuals | 2007-10-21 | freckling_phototype_s core | -0,8864 | 0,1483 | 2,437E-09 |
| MC1R | rs1805007 | 16_89919709 | Blond vs. brown hair color | 2,986 European ancestry individuals | 2007-10-21 | hair_color_phototype_ score | -1,782 | 0,2726 | 6,917E-11 |
| MC1R | rs1805007 | 16_89919709 | Blond vs. brown hair color | 2,986 European ancestry individuals | 2007-10-21 | hair_color | 0,5 | 0,05211 | 1,281E-21 |
| MC1R | rs1805007 | 16_89919709 | Blond vs. brown hair color | 2,986 European ancestry individuals | 2007-10-21 | phototype_score_cate gorical | -0,2699 | 0,04331 | 5,054E-10 |
| MC1R | rs1805007 | 16_89919709 | Blond vs. brown hair color | 2,986 European ancestry individuals | 2007-10-21 | phototype_score | -5,34 | 0,7977 | 2,414E-11 |
| MC1R | rs1805007 | 16_89919709 | Red vs non-red hair color | 2,986 individuals | 2007-10-21 | hair_color_light | 1,469762327 | 0,173999225 | 4,61787E-14 |
| MC1R | rs1805007 | 16_89919709 | Red vs non-red hair color | 2,986 individuals | 2007-10-21 | hair_color_red | 3,615618262 | 0,326979594 | 7,65019E-22 |
| MC1R | rs1805007 | 16_89919709 | Red vs non-red hair color | 2,986 individuals | 2007-10-21 | freckling_phototype_s core | -0,8864 | 0,1483 | 2,437E-09 |
| MC1R | rs1805007 | 16_89919709 | Red vs non-red hair color | 2,986 individuals | 2007-10-21 | hair_color_phototype_ score | -1,782 | 0,2726 | 6,917E-11 |
| MC1R | rs1805007 | 16_89919709 | Red vs non-red hair color | 2,986 individuals | 2007-10-21 | hair_color | 0,5 | 0,05211 | 1,281E-21 |
| MC1R | rs1805007 | 16_89919709 | Red vs non-red hair color | 2,986 individuals | 2007-10-21 | phototype_score_cate gorical | -0,2699 | 0,04331 | 5,054E-10 |
| MC1R | rs1805007 | 16_89919709 | Red vs non-red hair color | 2,986 individuals | 2007-10-21 | phototype_score | -5,34 | 0,7977 | 2,414E-11 |
| MC1R | rs1805007 | 16_89919709 | 1 sun | 2,986 individuals | 2007-10-21 | hair_color_light | 1,469762327 | 0,173999225 | 4,61787E-14 |
| MC1R | rs1805007 | 16_89919709 | 1 sun | 2,986 individuals | 2007-10-21 | hair_color_red | 3,615618262 | 0,326979594 | 7,65019E-22 |
| MC1R | rs1805007 | 16_89919709 | Skin sensitivity to sun | 2,986 individuals | 2007-10-21 | freckling_phototype_s core | -0,8864 | 0,1483 | 2,437E-09 |
| MC1R | rs1805007 | 16_89919709 | Skin sensitivity to sun | 2,986 individuals | 2007-10-21 | hair_color_phototype_ score | -1,782 | 0,2726 | 6,917E-11 |
| MC1R | rs1805007 | 16_89919709 | 1 sun | 2,986 individuals | 2007-10-21 | hair_color | 0,5 | 0,05211 | 1,281E-21 |
| MC1R | rs1805007 | 16_89919709 | Skin sensitivity to sun | 2,986 individuals | 2007-10-21 | phototype_score_cate gorical | -0,2699 | 0,04331 | 5,054E-10 |
| MC1R | rs1805007 | 16_89919709 | 1 sun | 2,986 individuals | 2007-10-21 | phototype_score | -5,34 | 0,7977 | 2,414E-11 |

| | | | | | | | | | |
|------|-----------|-------------|------------------------|-----------------------------------------------------------------|------------|-----------------------------|-------------|-------------|-------------|
| MC1R | rs1805007 | 16_89919709 | 1 Basal cell carcinoma | 2,045 European ancestry cases, 6,013 European ancestry controls | 2011-06-23 | hair_color_light | 1,469762327 | 0,173999225 | 4,61787E-14 |
| MC1R | rs1805007 | 16_89919709 | 1 Basal cell carcinoma | 2,045 European ancestry cases, 6,013 European ancestry controls | 2011-06-23 | hair_color_red | 3,615618262 | 0,326979594 | 7,65019E-22 |
| MC1R | rs1805007 | 16_89919709 | 1 Basal cell carcinoma | 2,045 European ancestry cases, 6,013 European ancestry controls | 2011-06-23 | freckling_phototype_score | -0,8864 | 0,1483 | 2,437E-09 |
| MC1R | rs1805007 | 16_89919709 | 1 Basal cell carcinoma | 2,045 European ancestry cases, 6,013 European ancestry controls | 2011-06-23 | hair_color_phototype_score | -1,782 | 0,2726 | 6,917E-11 |
| MC1R | rs1805007 | 16_89919709 | 1 Basal cell carcinoma | 2,045 European ancestry cases, 6,013 European ancestry controls | 2011-06-23 | hair_color | 0,5 | 0,05211 | 1,281E-21 |
| MC1R | rs1805007 | 16_89919709 | 1 Basal cell carcinoma | 2,045 European ancestry cases, 6,013 European ancestry controls | 2011-06-23 | phototype_score_categorical | -0,2699 | 0,04331 | 5,054E-10 |
| MC1R | rs1805007 | 16_89919709 | 1 Basal cell carcinoma | 2,045 European ancestry cases, 6,013 European ancestry controls | 2011-06-23 | phototype_score | -5,34 | 0,7977 | 2,414E-11 |
| MC1R | rs1805007 | 16_89919709 | 1 Tanning | 9,678 European ancestry individuals | 2013-04-01 | hair_color_light | 1,469762327 | 0,173999225 | 4,61787E-14 |
| MC1R | rs1805007 | 16_89919709 | 1 Tanning | 9,678 European ancestry individuals | 2013-04-01 | hair_color_red | 3,615618262 | 0,326979594 | 7,65019E-22 |
| MC1R | rs1805007 | 16_89919709 | 1 Tanning | 9,678 European ancestry individuals | 2013-04-01 | freckling_phototype_score | -0,8864 | 0,1483 | 2,437E-09 |
| MC1R | rs1805007 | 16_89919709 | 1 Tanning | 9,678 European ancestry individuals | 2013-04-01 | hair_color_phototype_score | -1,782 | 0,2726 | 6,917E-11 |
| MC1R | rs1805007 | 16_89919709 | 1 Tanning | 9,678 European ancestry individuals | 2013-04-01 | hair_color | 0,5 | 0,05211 | 1,281E-21 |
| MC1R | rs1805007 | 16_89919709 | 1 Tanning | 9,678 European ancestry individuals | 2013-04-01 | phototype_score_categorical | -0,2699 | 0,04331 | 5,054E-10 |
| MC1R | rs1805007 | 16_89919709 | 1 Tanning | 9,678 European ancestry individuals | 2013-04-01 | phototype_score | -5,34 | 0,7977 | 2,414E-11 |
| MC1R | rs1805007 | 16_89919709 | 1 Hair color | 7,070 European ancestry individuals | 2013-04-01 | hair_color_light | 1,469762327 | 0,173999225 | 4,61787E-14 |
| MC1R | rs1805007 | 16_89919709 | 1 Hair color | 7,070 European ancestry individuals | 2013-04-01 | hair_color_red | 3,615618262 | 0,326979594 | 7,65019E-22 |
| MC1R | rs1805007 | 16_89919709 | 1 Hair color | 7,070 European ancestry individuals | 2013-04-01 | freckling_phototype_score | -0,8864 | 0,1483 | 2,437E-09 |
| MC1R | rs1805007 | 16_89919709 | 1 Hair color | 7,070 European ancestry individuals | 2013-04-01 | hair_color_phototype_score | -1,782 | 0,2726 | 6,917E-11 |

| | | | | | | | | | |
|------|-----------|-------------|----------------------------|-------------------------------------|------------|-----------------------------|-------------|-------------|-------------|
| MC1R | rs1805007 | 16_89919709 | 1 Hair color | 7,070 European ancestry individuals | 2013-04-01 | hair_color | 0,5 | 0,05211 | 1,281E-21 |
| MC1R | rs1805007 | 16_89919709 | 1 Hair color | 7,070 European ancestry individuals | 2013-04-01 | phototype_score_categorical | -0,2699 | 0,04331 | 5,054E-10 |
| MC1R | rs1805007 | 16_89919709 | 1 Hair color | 7,070 European ancestry individuals | 2013-04-01 | phototype_score | -5,34 | 0,7977 | 2,414E-11 |
| MC1R | rs1805007 | 16_89919709 | 1 Sunburns | 9,283 European ancestry individuals | 2013-04-01 | hair_color_light | 1,469762327 | 0,173999225 | 4,61787E-14 |
| MC1R | rs1805007 | 16_89919709 | 1 Sunburns | 9,283 European ancestry individuals | 2013-04-01 | hair_color_red | 3,615618262 | 0,326979594 | 7,65019E-22 |
| MC1R | rs1805007 | 16_89919709 | 1 Sunburns | 9,283 European ancestry individuals | 2013-04-01 | freckling_phototype_score | -0,8864 | 0,1483 | 2,437E-09 |
| MC1R | rs1805007 | 16_89919709 | 1 Sunburns | 9,283 European ancestry individuals | 2013-04-01 | hair_color_phototype_score | -1,782 | 0,2726 | 6,917E-11 |
| MC1R | rs1805007 | 16_89919709 | 1 Sunburns | 9,283 European ancestry individuals | 2013-04-01 | hair_color | 0,5 | 0,05211 | 1,281E-21 |
| MC1R | rs1805007 | 16_89919709 | 1 Sunburns | 9,283 European ancestry individuals | 2013-04-01 | phototype_score_categorical | -0,2699 | 0,04331 | 5,054E-10 |
| MC1R | rs1805007 | 16_89919709 | 1 Sunburns | 9,283 European ancestry individuals | 2013-04-01 | phototype_score | -5,34 | 0,7977 | 2,414E-11 |
| MC1R | rs1805007 | 16_89919709 | 1 Non-melanoma skin cancer | 6,747 European ancestry individuals | 2013-04-01 | hair_color_light | 1,469762327 | 0,173999225 | 4,61787E-14 |
| MC1R | rs1805007 | 16_89919709 | 1 Non-melanoma skin cancer | 6,747 European ancestry individuals | 2013-04-01 | hair_color_red | 3,615618262 | 0,326979594 | 7,65019E-22 |
| MC1R | rs1805007 | 16_89919709 | 1 Non-melanoma skin cancer | 6,747 European ancestry individuals | 2013-04-01 | freckling_phototype_score | -0,8864 | 0,1483 | 2,437E-09 |
| MC1R | rs1805007 | 16_89919709 | 1 Non-melanoma skin cancer | 6,747 European ancestry individuals | 2013-04-01 | hair_color_phototype_score | -1,782 | 0,2726 | 6,917E-11 |
| MC1R | rs1805007 | 16_89919709 | 1 Non-melanoma skin cancer | 6,747 European ancestry individuals | 2013-04-01 | hair_color | 0,5 | 0,05211 | 1,281E-21 |
| MC1R | rs1805007 | 16_89919709 | 1 Non-melanoma skin cancer | 6,747 European ancestry individuals | 2013-04-01 | phototype_score_categorical | -0,2699 | 0,04331 | 5,054E-10 |
| MC1R | rs1805007 | 16_89919709 | 1 Non-melanoma skin cancer | 6,747 European ancestry individuals | 2013-04-01 | phototype_score | -5,34 | 0,7977 | 2,414E-11 |
| MC1R | rs1805007 | 16_89919709 | 1 Perceived skin darkness | 9,316 European ancestry individuals | 2015-05-12 | hair_color_light | 1,469762327 | 0,173999225 | 4,61787E-14 |
| MC1R | rs1805007 | 16_89919709 | 1 Perceived skin darkness | 9,316 European ancestry individuals | 2015-05-12 | hair_color_red | 3,615618262 | 0,326979594 | 7,65019E-22 |
| MC1R | rs1805007 | 16_89919709 | 1 Perceived skin darkness | 9,316 European ancestry individuals | 2015-05-12 | freckling_phototype_score | -0,8864 | 0,1483 | 2,437E-09 |
| MC1R | rs1805007 | 16_89919709 | 1 Perceived skin darkness | 9,316 European ancestry individuals | 2015-05-12 | hair_color_phototype_score | -1,782 | 0,2726 | 6,917E-11 |
| MC1R | rs1805007 | 16_89919709 | 1 Perceived skin darkness | 9,316 European ancestry individuals | 2015-05-12 | hair_color | 0,5 | 0,05211 | 1,281E-21 |

| | | | | | | | | | | |
|------|-----------|-------------|---|-----------------------------------|--------------------------------------------------------------------|------------|-----------------------------|-------------|-------------|-------------|
| MC1R | rs1805007 | 16_89919709 | 1 | Perceived skin darkness | 9,316 European ancestry individuals | 2015-05-12 | phototype_score_categorical | -0,2699 | 0,04331 | 5,054E-10 |
| MC1R | rs1805007 | 16_89919709 | 1 | Perceived skin darkness | 9,316 European ancestry individuals | 2015-05-12 | phototype_score | -5,34 | 0,7977 | 2,414E-11 |
| MC1R | rs1805007 | 16_89919709 | 1 | Cutaneous squamous cell carcinoma | 6,579 European ancestry cases, 280,558 European ancestry controls | 2016-07-18 | hair_color_light | 1,469762327 | 0,173999225 | 4,61787E-14 |
| MC1R | rs1805007 | 16_89919709 | 1 | Cutaneous squamous cell carcinoma | 6,579 European ancestry cases, 280,558 European ancestry controls | 2016-07-18 | hair_color_red | 3,615618262 | 0,326979594 | 7,65019E-22 |
| MC1R | rs1805007 | 16_89919709 | 1 | Cutaneous squamous cell carcinoma | 6,579 European ancestry cases, 280,558 European ancestry controls | 2016-07-18 | freckling_phototype_score | -0,8864 | 0,1483 | 2,437E-09 |
| MC1R | rs1805007 | 16_89919709 | 1 | Cutaneous squamous cell carcinoma | 6,579 European ancestry cases, 280,558 European ancestry controls | 2016-07-18 | hair_color_phototype_score | -1,782 | 0,2726 | 6,917E-11 |
| MC1R | rs1805007 | 16_89919709 | 1 | Cutaneous squamous cell carcinoma | 6,579 European ancestry cases, 280,558 European ancestry controls | 2016-07-18 | hair_color | 0,5 | 0,05211 | 1,281E-21 |
| MC1R | rs1805007 | 16_89919709 | 1 | Cutaneous squamous cell carcinoma | 6,579 European ancestry cases, 280,558 European ancestry controls | 2016-07-18 | phototype_score_categorical | -0,2699 | 0,04331 | 5,054E-10 |
| MC1R | rs1805007 | 16_89919709 | 1 | Cutaneous squamous cell carcinoma | 6,579 European ancestry cases, 280,558 European ancestry controls | 2016-07-18 | phototype_score | -5,34 | 0,7977 | 2,414E-11 |
| MC1R | rs1805007 | 16_89919709 | 1 | Basal cell carcinoma | 12.945 European ancestry cases, 274,252 European ancestry controls | 2016-08-19 | hair_color_light | 1,469762327 | 0,173999225 | 4,61787E-14 |
| MC1R | rs1805007 | 16_89919709 | 1 | Basal cell carcinoma | 12.945 European ancestry cases, 274,252 European ancestry controls | 2016-08-19 | hair_color_red | 3,615618262 | 0,326979594 | 7,65019E-22 |
| MC1R | rs1805007 | 16_89919709 | 1 | Basal cell carcinoma | 12.945 European ancestry cases, 274,252 European ancestry controls | 2016-08-19 | freckling_phototype_score | -0,8864 | 0,1483 | 2,437E-09 |
| MC1R | rs1805007 | 16_89919709 | 1 | Basal cell carcinoma | 12.945 European ancestry cases, 274,252 European ancestry controls | 2016-08-19 | hair_color_phototype_score | -1,782 | 0,2726 | 6,917E-11 |
| MC1R | rs1805007 | 16_89919709 | 1 | Basal cell carcinoma | 12.945 European ancestry cases, 274,252 European ancestry controls | 2016-08-19 | hair_color | 0,5 | 0,05211 | 1,281E-21 |
| MC1R | rs1805007 | 16_89919709 | 1 | Basal cell carcinoma | 12.945 European ancestry cases, 274,252 European ancestry controls | 2016-08-19 | phototype_score_categorical | -0,2699 | 0,04331 | 5,054E-10 |

| | | | | | | | | | | |
|------|-------------|-------------|-------|---------------------------|----------------------------------------------------------------------------------------------|------------|-----------------------------|-------------|-------------|-------------|
| MC1R | rs1805007 | 16_89919709 | 1 | Basal cell carcinoma | 12.945 European ancestry cases, 274,252 European ancestry controls | 2016-08-19 | phototype_score | -5,34 | 0,7977 | 2,414E-11 |
| MC1R | rs1805007 | 16_89919709 | 1 | Melanoma | 4,842 European ancestry cases, 286,565 European ancestry controls | 2017-02-09 | hair_color_light | 1,469762327 | 0,173999225 | 4,61787E-14 |
| MC1R | rs1805007 | 16_89919709 | 1 | Melanoma | 4,842 European ancestry cases, 286,565 European ancestry controls | 2017-02-09 | hair_color_red | 3,615618262 | 0,326979594 | 7,65019E-22 |
| MC1R | rs1805007 | 16_89919709 | 1 | Melanoma | 4,842 European ancestry cases, 286,565 European ancestry controls | 2017-02-09 | freckling_phototype_score | -0,8864 | 0,1483 | 2,437E-09 |
| MC1R | rs1805007 | 16_89919709 | 1 | Melanoma | 4,842 European ancestry cases, 286,565 European ancestry controls | 2017-02-09 | hair_color_phototype_score | -1,782 | 0,2726 | 6,917E-11 |
| MC1R | rs1805007 | 16_89919709 | 1 | Melanoma | 4,842 European ancestry cases, 286,565 European ancestry controls | 2017-02-09 | hair_color | 0,5 | 0,05211 | 1,281E-21 |
| MC1R | rs1805007 | 16_89919709 | 1 | Melanoma | 4,842 European ancestry cases, 286,565 European ancestry controls | 2017-02-09 | phototype_score_categorical | -0,2699 | 0,04331 | 5,054E-10 |
| MC1R | rs1805007 | 16_89919709 | 1 | Melanoma | 4,842 European ancestry cases, 286,565 European ancestry controls | 2017-02-09 | phototype_score | -5,34 | 0,7977 | 2,414E-11 |
| DEF8 | rs146972365 | 16_89956285 | 0,974 | Red vs non-red hair color | 181 European ancestry red hair individuals, 6,910 European ancestry non-red hair individuals | 2015-07-13 | hair_color_light | 1,270155071 | 0,177798861 | 1,35594E-10 |
| DEF8 | rs146972365 | 16_89956285 | 0,974 | Red vs non-red hair color | 181 European ancestry red hair individuals, 6,910 European ancestry non-red hair individuals | 2015-07-13 | hair_color_red | 2,911971626 | 0,292983195 | 8,44761E-17 |
| DEF8 | rs146972365 | 16_89956285 | 0,974 | Red vs non-red hair color | 181 European ancestry red hair individuals, 6,910 European ancestry non-red hair individuals | 2015-07-13 | freckling_phototype_score | -0,8459 | 0,1487 | 1,343E-08 |
| DEF8 | rs146972365 | 16_89956285 | 0,974 | Red vs non-red hair color | 181 European ancestry red hair individuals, 6,910 European ancestry non-red hair individuals | 2015-07-13 | hair_color_phototype_score | -1,585 | 0,2729 | 6,677E-09 |
| DEF8 | rs146972365 | 16_89956285 | 0,974 | Red vs non-red hair color | 181 European ancestry red hair individuals, 6,910 European ancestry non-red hair individuals | 2015-07-13 | hair_color | 0,4424 | 0,05218 | 2,972E-17 |

| | | | | | | | | | | |
|------|-------------|-------------|-------|--------------------------------|----------------------------------------------------------------------------------------------------|------------|-----------------------------|-------------|-------------|-------------|
| DEF8 | rs146972365 | 16_89956285 | 0,974 | Red vs non-red hair color | 181 European ancestry red hair individuals, 6,910 European ancestry non-red hair individuals | 2015-07-13 | phototype_score_categorical | -0,2494 | 0,0433 | 8,907E-09 |
| DEF8 | rs146972365 | 16_89956285 | 0,974 | Red vs non-red hair color | 181 European ancestry red hair individuals, 6,910 European ancestry non-red hair individuals | 2015-07-13 | phototype_score | -4,957 | 0,7974 | 5,512E-10 |
| DEF8 | rs146972365 | 16_89956285 | 0,974 | Light vs. dark hair color | 3,069 European ancestry light hair individuals, 4,022 European ancestry dark hair individuals | 2015-07-13 | hair_color_light | 1,270155071 | 0,177798861 | 1,35594E-10 |
| DEF8 | rs146972365 | 16_89956285 | 0,974 | Light vs. dark hair color | 3,069 European ancestry light hair individuals, 4,022 European ancestry dark hair individuals | 2015-07-13 | hair_color_red | 2,911971626 | 0,292983195 | 8,44761E-17 |
| DEF8 | rs146972365 | 16_89956285 | 0,974 | Light vs. dark hair color | 3,069 European ancestry light hair individuals, 4,022 European ancestry dark hair individuals | 2015-07-13 | freckling_phototype_score | -0,8459 | 0,1487 | 1,343E-08 |
| DEF8 | rs146972365 | 16_89956285 | 0,974 | Light vs. dark hair color | 3,069 European ancestry light hair individuals, 4,022 European ancestry dark hair individuals | 2015-07-13 | hair_color_phototype_score | -1,585 | 0,2729 | 6,677E-09 |
| DEF8 | rs146972365 | 16_89956285 | 0,974 | Light vs. dark hair color | 3,069 European ancestry light hair individuals, 4,022 European ancestry dark hair individuals | 2015-07-13 | hair_color | 0,4424 | 0,05218 | 2,972E-17 |
| DEF8 | rs146972365 | 16_89956285 | 0,974 | Light vs. dark hair color | 3,069 European ancestry light hair individuals, 4,022 European ancestry dark hair individuals | 2015-07-13 | phototype_score_categorical | -0,2494 | 0,0433 | 8,907E-09 |
| DEF8 | rs146972365 | 16_89956285 | 0,974 | Light vs. dark hair color | 3,069 European ancestry light hair individuals, 4,022 European ancestry dark hair individuals | 2015-07-13 | phototype_score | -4,957 | 0,7974 | 5,512E-10 |
| DEF8 | rs146972365 | 16_89956285 | 0,974 | Brown vs. non-brown hair color | 3,826 European ancestry brown hair individuals, 3,265 European ancestry non-brown hair individuals | 2015-07-13 | hair_color_light | 1,270155071 | 0,177798861 | 1,35594E-10 |
| DEF8 | rs146972365 | 16_89956285 | 0,974 | Brown vs. non-brown hair color | 3,826 European ancestry brown hair individuals, 3,265 European ancestry non-brown hair individuals | 2015-07-13 | hair_color_red | 2,911971626 | 0,292983195 | 8,44761E-17 |

| | | | | | | | | | | |
|---------|-------------|-------------|-------|--------------------------------|----------------------------------------------------------------------------------------------------|------------|-----------------------------|-------------|-------------|-------------|
| DEF8 | rs146972365 | 16_89956285 | 0,974 | Brown vs. non-brown hair color | 3,826 European ancestry brown hair individuals, 3,265 European ancestry non-brown hair individuals | 2015-07-13 | freckling_phototype_score | -0,8459 | 0,1487 | 1,343E-08 |
| DEF8 | rs146972365 | 16_89956285 | 0,974 | Brown vs. non-brown hair color | 3,826 European ancestry brown hair individuals, 3,265 European ancestry non-brown hair individuals | 2015-07-13 | hair_color_phototype_score | -1,585 | 0,2729 | 6,677E-09 |
| DEF8 | rs146972365 | 16_89956285 | 0,974 | Brown vs. non-brown hair color | 3,826 European ancestry brown hair individuals, 3,265 European ancestry non-brown hair individuals | 2015-07-13 | hair_color | 0,4424 | 0,05218 | 2,972E-17 |
| DEF8 | rs146972365 | 16_89956285 | 0,974 | Brown vs. non-brown hair color | 3,826 European ancestry brown hair individuals, 3,265 European ancestry non-brown hair individuals | 2015-07-13 | phototype_score_categorical | -0,2494 | 0,0433 | 8,907E-09 |
| DEF8 | rs146972365 | 16_89956285 | 0,974 | Brown vs. non-brown hair color | 3,826 European ancestry brown hair individuals, 3,265 European ancestry non-brown hair individuals | 2015-07-13 | phototype_score | -4,957 | 0,7974 | 5,512E-10 |
| DEF8 | rs4268748 | 16_89960104 | 0,992 | Skin colour saturation | 5,857 European ancestry individuals | 2015-05-12 | hair_color_red | 1,613042275 | 0,22885313 | 4,31958E-09 |
| DEF8 | rs4268748 | 16_89960104 | 0,992 | Squamous cell carcinoma | 6,891 European ancestry cases, 54,566 European ancestry controls | 2016-01-29 | hair_color_red | 1,613042275 | 0,22885313 | 4,31958E-09 |
| AFG3L1P | rs8063160 | 16_89988301 | 0,988 | Brown vs. non-brown hair color | 3,826 European ancestry brown hair individuals, 3,265 European ancestry non-brown hair individuals | 2015-07-13 | hair_color_red | 2,577764331 | 0,277177014 | 8,88529E-15 |
| AFG3L1P | rs8063160 | 16_89988301 | 0,988 | Brown vs. non-brown hair color | 3,826 European ancestry brown hair individuals, 3,265 European ancestry non-brown hair individuals | 2015-07-13 | hair_color | 0,2703 | 0,04053 | 2,871E-11 |
| AFG3L1P | rs8063160 | 16_89988301 | 0,988 | Light vs. dark hair color | 3,069 European ancestry light hair individuals, 4,022 European ancestry dark hair individuals | 2015-07-13 | hair_color_red | 2,577764331 | 0,277177014 | 8,88529E-15 |
| AFG3L1P | rs8063160 | 16_89988301 | 0,988 | Light vs. dark hair color | 3,069 European ancestry light hair individuals, 4,022 European ancestry dark hair individuals | 2015-07-13 | hair_color | 0,2703 | 0,04053 | 2,871E-11 |

| | | | | | | | | | | |
|--------------------|------------|-------------|-------|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------------------|--------------|-------------|-------------|
| AFG3L1P | rs8063160 | 16_89988301 | 0,988 | Red vs non-red hair color | 181 European ancestry red hair individuals, 6,910 European ancestry non-red hair individuals | 2015-07-13 | hair_color_red | 2,577764331 | 0,277177014 | 8,88529E-15 |
| AFG3L1P | rs8063160 | 16_89988301 | 0,988 | Red vs non-red hair color | 181 European ancestry red hair individuals, 6,910 European ancestry non-red hair individuals | 2015-07-13 | hair_color | 0,2703 | 0,04053 | 2,871E-11 |
| TSPAN10 | rs9747347 | 17_81639794 | 0,982 | Myopia | 106,086 European ancestry cases, 85,757 European ancestry controls | 2016-05-16 | hair_color_black | -0,320571125 | 0,056989787 | 1,45766E-08 |
| TSPAN10 | rs9747347 | 17_81639794 | 0,982 | Myopia | 106,086 European ancestry cases, 85,757 European ancestry controls | 2016-05-16 | hair_color_phototype_score | -0,5263 | 0,08726 | 1,751E-09 |
| HMG1P31 - CDH20 | rs12455952 | 18_61173285 | 0,953 | rectovaginal disease with dense adhesions | 1,364 European ancestry cases, 7,060 European ancestry controls. | 2017-04-01 | handedness | 0,04517 | 0,008211 | 3,981E-08 |
| SMARCA4 - LDLR | rs55791371 | 19_11077477 | 1 | Lipid metabolism phenotypes | 8,330 European ancestry individuals | 2012-01-29 | icd9_code3_272 | -0,498975175 | 0,08088197 | 6,63465E-10 |
| SMARCA4 - LDLR | rs55791371 | 19_11077477 | 1 | Myocardial infarction | 27,509 European ancestry cases, 130 African American cases, 278 Hispanic American cases, 10,257 South Asian ancestry cases, 288 Lebanese ancestry cases, 1,687 East Asian ancestry cases, 99,121 European ancestry controls, 2,778 African American controls, 3,337 Hispanic American controls, 12,899 South Asian ancestry controls, 466 Lebanese ancestry controls, 7,709 East Asian ancestry controls | 2015-09-07 | icd9_code3_272 | -0,498975175 | 0,08088197 | 6,63465E-10 |

| | | | | | | | | | | |
|----------------|-------------|-------------|-------|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------|--------------|-------------|-------------|
| SMARCA4 - LDLR | rs56289821 | 19_11077571 | 1 | Coronary artery disease | 42,096 European ancestry cases, 361 African American cases, 758 Hispanic American cases, 12,658 South Asian ancestry cases, 1,802 Lebanese ancestry cases, 3,614 East Asian ancestry cases, 99,121 European ancestry controls, 2,778 African American controls, 3,337 Hispanic American controls, 12,899 South Asian ancestry controls, 466 Lebanese ancestry controls, 7,709 East Asian ancestry controls | 2015-09-07 | icd9_code3_272 | -0,494409567 | 0,080872945 | 9,35553E-10 |
| SMARCA4 - LDLR | rs112374545 | 19_11078223 | 1 | Cholesterol, total | up to 62,166 European ancestry individuals | 2015-05-11 | icd9_code3_272 | -0,487630234 | 0,080642883 | 1,40714E-09 |
| SMARCA4 - LDLR | rs112374545 | 19_11078223 | 1 | LDL cholesterol | up 62,166 European ancestry individuals | 2015-05-11 | icd9_code3_272 | -0,487630234 | 0,080642883 | 1,40714E-09 |
| SMARCA4 - LDLR | rs142130958 | 19_11079976 | 1 | Metabolite levels (lipoprotein measures) | 2,118 Erasmus Rucphen (founder/genetic isolate), 22,807 European ancestry individuals | 2016-03-23 | icd9_code3_272 | -0,507375058 | 0,080921467 | 3,54578E-10 |
| SMARCA4 - LDLR | rs10412048 | 19_11083273 | 0,999 | Cholesterol, total | 19,259 British ancestry individuals from 6863 families. | 2017-03-07 | icd9_code3_272 | -0,500948538 | 0,079649474 | 3,1517E-10 |
| LDLR | rs6511720 | 19_11091630 | 1 | LDL cholesterol | 8,589 European ancestry individuals | 2008-01-13 | icd9_code3_272 | -0,493238836 | 0,080690276 | 9,36612E-10 |
| LDLR | rs6511720 | 19_11091630 | 1 | LDL cholesterol | 19,840 European ancestry individuals | 2008-12-07 | icd9_code3_272 | -0,493238836 | 0,080690276 | 9,36612E-10 |
| LDLR | rs6511720 | 19_11091630 | 1 | Carotid intima media thickness | Up to 31,211 European ancestry individuals | 2011-09-11 | icd9_code3_272 | -0,493238836 | 0,080690276 | 9,36612E-10 |
| LDLR | rs6511720 | 19_11091630 | 1 | Cardiovascular disease risk factors associated | 11,683 European ancestry individuals | 2011-09-24 | icd9_code3_272 | -0,493238836 | 0,080690276 | 9,36612E-10 |
| LDLR | rs6511720 | 19_11091630 | 1 | phospholipase A2 activity and mass | 12,126 European ancestry individuals, 1,538 individuals | 2011-10-14 | icd9_code3_272 | -0,493238836 | 0,080690276 | 9,36612E-10 |
| LDLR | rs6511720 | 19_11091630 | 1 | LDL cholesterol | 95,454 European ancestry individuals | 2010-08-05 | icd9_code3_272 | -0,493238836 | 0,080690276 | 9,36612E-10 |
| LDLR | rs6511720 | 19_11091630 | 1 | Cholesterol, total | 100,184 European ancestry individuals | 2010-08-05 | icd9_code3_272 | -0,493238836 | 0,080690276 | 9,36612E-10 |

| | | | | | | | | | |
|---------------------|-----------|-------------|-------------------------------|-----------------------------------------------------------------|------------|---------------------|--------------|-------------|-------------|
| LDLR | rs6511720 | 19_11091630 | 1 Metabolite levels | 6,608 European ancestry individuals | 2012-08-16 | icd9_code3_272 | -0,493238836 | 0,080690276 | 9,36612E-10 |
| LDLR | rs6511720 | 19_11091630 | 1 Lipid metabolism phenotypes | Up to 17,296 European ancestry female individuals | 2009-11-20 | icd9_code3_272 | -0,493238836 | 0,080690276 | 9,36612E-10 |
| LDLR | rs6511720 | 19_11091630 | 1 Lipid metabolism phenotypes | Up to 17,296 European ancestry female individuals | 2009-11-20 | icd9_code3_272 | -0,493238836 | 0,080690276 | 9,36612E-10 |
| LDLR | rs6511720 | 19_11091630 | 1 Lipid metabolism phenotypes | Up to 17,296 European ancestry female individuals | 2009-11-20 | icd9_code3_272 | -0,493238836 | 0,080690276 | 9,36612E-10 |
| LDLR | rs6511720 | 19_11091630 | 1 Lipid metabolism phenotypes | Up to 17,296 European ancestry female individuals | 2009-11-20 | icd9_code3_272 | -0,493238836 | 0,080690276 | 9,36612E-10 |
| LDLR | rs6511720 | 19_11091630 | 1 Abdominal aortic aneurysm | 1,755 European ancestry cases, 5,314 European ancestry controls | 2013-09-17 | icd9_code3_272 | -0,493238836 | 0,080690276 | 9,36612E-10 |
| LDLR | rs6511720 | 19_11091630 | 1 LDL cholesterol | 94,595 European ancestry individuals | 2013-10-06 | icd9_code3_272 | -0,493238836 | 0,080690276 | 9,36612E-10 |
| LDLR | rs6511720 | 19_11091630 | 1 LDL cholesterol | 94,595 European ancestry individuals | 2013-10-06 | icd9_code3_272 | -0,493238836 | 0,080690276 | 9,36612E-10 |
| LDLR | rs6511720 | 19_11091630 | 1 Cholesterol, total | 94,595 European ancestry individuals | 2013-10-06 | icd9_code3_272 | -0,493238836 | 0,080690276 | 9,36612E-10 |
| LDLR | rs6511720 | 19_11091630 | 1 LDL cholesterol | 7,565 African American individuals | 2011-02-10 | icd9_code3_272 | -0,493238836 | 0,080690276 | 9,36612E-10 |
| LDLR | rs6511720 | 19_11091630 | 1 LDL cholesterol | 2,758 European ancestry individuals | 2008-01-13 | icd9_code3_272 | -0,493238836 | 0,080690276 | 9,36612E-10 |
| RPL41P1 - LINC01432 | rs201563 | 20_22019643 | 1 Male-pattern baldness | 9,009 European ancestry cases, 8,491 European ancestry controls | 2016-05-16 | hair_loss_40_binary | 0,363260212 | 0,066757593 | 3,14358E-08 |
| RPL41P1 - LINC01432 | rs201563 | 20_22019643 | 1 Male-pattern baldness | 9,009 European ancestry cases, 8,491 European ancestry controls | 2016-05-16 | hair_loss_40 | 0,1901 | 0,03259 | 6,281E-09 |
| LINC01432 | rs6047844 | 20_22056937 | 1 Male-pattern baldness | 3,891 European ancestry cases, 8,915 European ancestry controls | 2012-05-31 | hair_loss_40 | 0,1839 | 0,03264 | 1,99E-08 |
| LINC01432 | rs1160312 | 20_22069865 | 1 Male-pattern baldness | 578 European ancestry cases, 547 European ancestry controls | 2008-10-12 | hair_loss_40_binary | 0,365166884 | 0,065744851 | 1,62149E-08 |
| LINC01432 | rs1160312 | 20_22069865 | 1 Male-pattern baldness | 578 European ancestry cases, 547 European ancestry controls | 2008-10-12 | hair_loss_40 | 0,1939 | 0,03213 | 1,852E-09 |