

Supplementary Table 1: Remaining variants after filtering

Patient II-7:

Chr.	Start	ref	var	rsid	MAF	GERP	gene	aaChange
1	222791555	C	T	rs572466037	0.08		MIA3	H35Y
1	223286129	G	A	rs764535	0.59	-3.1	TLR5	T82I
1	225340410	G	A	rs17578819	0.76	-4	DNAH14	G1657E
2	73677882	G	C	rs201517720	0.01		ALMS1	A1409P
2	74598723	T	C	rs55862001	0.36	-5.3	DCTN1	I196V
2	220477946	C	T	rs116409665	0.42		STK11IP	R846C
5	157214762	C	G	rs201102111	0.06	-5.1	CLINT1	M608I
6	30698826	C	T	rs149283777	0.03	-4.2	FLOT1	V259M
6	33372689	C	T	rs142110898	0.29	-3.3	KIFC1	R273W
10	49658338	G	T		0		ARHGAP22	R628S
10	123325158	G	A	rs56226109	0.49	-5.3	FGFR2	S57L
10	127459115	TT			0		MMP21	K342R
19	57642413	C	A	rs35394887	0.59		USP29	D790E

Patient II-6:

Chr.	Start	ref	var	rsid	MAF	GERP	genes	aaChange
9	117840405	C	T	rs199896561	0.02	-5.4	TNC	D831N
10	123325158	G	A	rs56226109	0.49	-5.3	FGFR2	S57L
10	127459114	TT			0		MMP21	K342R
12	80935439	A	G	rs35189291	0.37	-5.8	PTPRQ	Y1083C
12	94603406	G	C	rs34565975	0.79		PLXNC1	E494Q
19	1004590	AT		rs552594749	0.1	-3.6	GRIN3B	M364V
19	1010755	G	A	rs10401738	0.61		TMEM259	S486L
19	1360644	G	C	rs113767687	0.11		MUM1	D243H
19	1506824	A	T	rs76330688	0.1		ADAMTSL5	L329Q
19	1622372	T	C	rs11879402	0.35		TCF3	T198A
19	2076913	A	G		0.01	-3.7	MOB3A	I174T