-					_																
Gene											FATHMM				SIFT					POLYPHEN	
ABCC8	Serial No.	Protein ID	Substitution	Prediction	Score	Warr HMM		HMM Description	HMM Pos.	HMM Prob. W.	HMM Prob. M.	HMM Weights D.	HMM Weights O.	Prediction	Median Sequen	Score	Sequence	Description	Score	Sensitivity	Specificity
								ABC transporter													
		1 Q09428	L582V	DAMAGING		-2.87 ABC	membrane	transmembrane region	2	0.2894652569	0.0819218119	471	83	AFFECT	3.04		2.	DAMAGING	0.99	5 0.6	68 0.97
		2 Q09428	C435R	DAMAGING		-3.4		ABC transporter transi	1	139 0.01018845564	0.014875347	382	36	AFFECT	3.04	0.0	2.	1 BENIGN	0.31	1 0	0.89
								ABC transporter													
		3 Q09428	H1023Y	DAMAGING		-3.4	53060	transmembrane region		27 0.01285143244	0.01976465574	382	36	TOLERATED	3.04	0.3	2.	BENIGN	0.27	4 0.5	91 0.88
		0 400-120	1110201	DAMINGING			membran	region		2. 0.0.200.4024	0.01010400014		-		0.04	0.01		, DEMON	0.2.	0.0	0.00
		4 Q09428	R1182Q	DAMAGING		-2.52 e		ABC transporter transi		162 0.03925250559	0.02598593107	471		TOLERATED	3.04	0.0	2*	1 BENIGN	0.09	B 0.9	93 0.85
		5 Q09428	R1379C	DAMAGING		-3.4 ABC	_tran	ABC transporter		19 0.09709843706	0.004470969516	547	57	AFFECT	3.04		2*	DAMAGING		1	0 1
Gene					-	Warning					FATHMM	HMM Weights	HMM Weights		SIFT					POLYPHEN	_
TCF7L2	Serial No.	Protein ID	Substitution	Prediction	Score	HMM		HMM Description	HMM Pos.	HMM Prob. W.	HMM Prob. M.	D.	O.	Prediction	Median Sequen	Score	Sequence	Description	Score	Sensitivity	Specificity
		1 Q9NQB0	E322A	DAMAGING		-5.09	7989		3	322 0.205	0.074	88	3	DAMAGING	3.51		23	DAMAGING	0.99	7 0.7	71 0.97
		2 Q9NQB0	D16A	DAMAGING		-7.46	7989			16 0.835	0.012	88	3	DAMAGING	3.63		14	4 DAMAGING	0.99	9 0.1	14 0.99
		3 Q9NQB0	E17A	DAMAGING		-7.27	7989			17 0.812	0.014	88	3	DAMAGING	3.63		14	4 DAMAGING	0.99	9 0.1	14 0.99
		4 Q9NQB0	I19A	DAMAGING		-5.4	7989			19 0.329	0.038	88	3	DAMAGING	3.63		14	DAMAGING	0.99	8 0.2	27 0.99
		5 Q9NQB0	F21A	DAMAGING		-6.57	7989			21 0.693	0.079	88	3	DAMAGING	3.63		14	DAMAGING	0.99	B 0.2	27 0.99
		6 Q9NQB0	E24A	DAMAGING		-6.81	7989			24 0.743	0.019	88	3	DAMAGING	3.63		14	DAMAGING	0.99	9 0.1	14 0.99
		7 Q9NQB0	E26A	DAMAGING		-5.74	7989			26 0.464	0.025	88	3	DAMAGING	3.63		14	DAMAGING	0.99	6 0.5	55 0.98
		8 Q9NQB0	E28A	DAMAGING		-5.49	7989			28 0.375	0.039	88	3	DAMAGING	3.63		14	DAMAGING	0.88	4 0.8	82 0.94
		9 Q9NQB0	E29A	DAMAGING		-5.39	7989			29 0.328	0.04	88	3	DAMAGING	3.63		14	DAMAGING	0.96	9 0.7	77 0.95
	1	0 Q9NQB0	L48A	DAMAGING		-6.52	7989			48 0.687	0.021	88	3	DAMAGING	3.63		14	DAMAGING	0.99	9 0.1	14 0.99
	1	1 Q9NQB0	K320R	DAMAGING		-5.16	7989		3	320 0.235	0.065	88	3	DAMAGING	3.52		22	DAMAGING	0.99	1 0.7	71 0.97
Gene											FATHMM				SIFT					POLYPHEN	
KCQN1	Serial No.	Protein ID	Substitution	Prediction	Score	ID	ning HMM	HMM Description	HMM Pos.	HMM Prob. W.	HMM Prob. M.	HMM Weights D.	HMM Weights O.	Prediction	Median Sequen	Score	Sequence	Description	Score	Sensitivity	Specificity
		1 P51787	S27A	DAMAGING		-5.64		·		27 0.139	0.084	375	8	TOLERATED	4.32	0.0		4 DAMAGING	0.62	4 0.8	87 0.91
		2 P51787	V324L	DAMAGING		-4.9 lon_	Trans	Ion Transport protein	1	176 0.119	0.121	1141	38	TOLERATED	3.01	0.6	134	4 BENIGN	0.00	4 0.9	97 0.59
		3 P51787	T327V	DAMAGING		-4.78 lon_1	trans	Ion Transport protein	1	179 0.0611	0.14	1141	38	TOLERATED	3.01		134	4 BENIGN	0.36	5 0	0.89
	-	4 P51787	1328L	DAMAGING		-4.81 lon_1		Ion Transport protein		180 0.0694		1141	38	TOLERATED	3.01				0.7	8 0.8	85 0.93
		5 P51787	F340C	DAMAGING		-5.08 lon_1		Ion Transport protein		193 0.12		1141		DAMAGING	3.01		134			1	1 (
	-	6 P51787	A590W	DAMAGING	-			KCNQ voltage K Chani		156 0.191		75		DAMAGING	3.4		15	DAMAGING	0.99		
	_	7 P51787	L602A	DAMAGING	-			KCNQ voltage K Chani		168 0.17		75	1	DAMAGING	3.4		15	DEMINI	0.05		
		8 P51787	1609A	DAMAGING		-6.49 KCN	u_cnannel	KCNQ voltage K Chani	1 1	175 0.193	0.0302	75	1	DAMAGING	3.49	0.0	1	DAMAGING	0.90	1 0.8	82 0.94