

**Supplementary Table 1.**

Nonsynonymous SNPs used to compare MAF distributions and intronic ratios between SNPs predicted to be benign, possibly damaging, and probably damaging. SNP functionality was predicted by PolyPhen.

AA –amino acid

SNP	acc number	AA1	AA2	AA1/AA2	prediction
rs47	XP_371877	N	D	ND	benign
rs268	NP_000228	N	S	NS	benign
rs298	NP_000228	V	M	VM	benign
rs300	NP_000228	T	A	TA	benign
rs334	NP_000509	E	V	EV	possibly damaging
rs662	NP_000437	Q	R	QR	benign
rs665	NP_000138	V	I	VI	benign
rs669	NP_000005	V	I	VI	benign
rs671	NP_000681	E	K	EK	possibly damaging
rs678	NP_002206	V	E	VE	probably damaging
rs698	NP_000660	I	V	IV	benign
rs699	NP_000020	M	T	MT	benign
rs704	NP_000629	M	T	MT	benign
rs713	NP_064445	L	M	LM	benign
rs980	XP_375718	L	I	LI	benign
rs1098	NP_078974	L	Q	LQ	possibly damaging
rs1115	NP_076946	E	K	EK	benign
rs1124	NP_003009	N	S	NS	benign
rs1208	NP_000006	K	R	KR	benign
rs1258	NP_722516	M	T	MT	benign
rs1303	NP_000286	D	E	DE	benign
rs1320	NP_009059	D	N	DN	benign
rs1337	NP_775933	L	F	LF	benign
rs1339	NP_775933	I	M	IM	benign
rs1395	NP_066918	F	S	FS	possibly damaging
rs1528	NP_036271	K	E	KE	benign
rs1545	NP_740754	G	V	GV	probably damaging
rs1547	NP_740754	R	C	RC	benign
rs1567	NP_861447	D	E	DE	benign
rs1576	NP_061925	S	C	SC	benign
rs1635	XP_167149	T	N	TN	benign
rs1666	NP_660278	L	V	LV	benign
rs1716	NP_002199	R	W	RW	benign
rs1727	NP_001538	E	D	ED	benign
rs1811	NP_919306	R	Q	RQ	benign
rs1818	NP_079107	T	I	TI	benign
rs1823	NP_808760	N	K	NK	benign
rs1823	NP_060737	N	K	NK	benign
rs1899	NP_057097	H	R	HR	benign

rs1921	NP_005092	S	N	SN	benign
rs1989	NP_075379	P	S	PS	probably damaging
rs1991	NP_079352	Q	R	QR	benign
rs2240	NP_002408	L	V	LV	benign
rs2347	NP_060589	S	A	SA	benign
rs2433	NP_078959	I	V	IV	benign
rs2435	NP_932095	Q	R	QR	benign
rs2436	NP_932095	K	T	KT	benign
rs2461	NP_112241	L	V	LV	benign
rs2607	XP_375853	E	Q	EQ	benign
rs2637	NP_078993	R	W	RW	probably damaging
rs2640	NP_055228	K	R	KR	benign
rs2708	NP_064579	E	G	EG	possibly damaging
rs2759	NP_000241	I	V	IV	benign
rs2791	NP_057376	R	H	RH	benign
rs2906	NP_786924	Q	P	QP	benign
rs2906	NP_060578	Q	P	QP	benign
rs2941	NP_000829	V	I	VI	benign
rs3027	NP_115758	L	R	LR	possibly damaging
rs3085	XP_114735	I	V	IV	benign
rs3147	NP_001143	I	T	IT	possibly damaging
rs3162	NP_001055	L	V	LV	benign
rs3308	NP_005821	N	D	ND	benign
rs3316	NP_005740	K	R	KR	benign
rs3429	NP_079379	T	I	TI	benign
rs3501	NP_031375	M	V	MV	benign
rs3505	NP_001307	V	L	VL	benign
rs3568	NP_008896	G	W	GW	possibly damaging
rs3575	NP_002291	C	Y	CY	probably damaging
rs3625	NP_569736	T	A	TA	benign
rs4193	NP_002113	G	R	GR	possibly damaging
rs4220	NP_005132	R	K	RK	benign
rs4236	NP_000891	A	T	AT	benign
rs4277	NP_001877	T	M	TM	benign
rs4303	NP_000780	A	S	AS	benign
rs4314	NP_000780	R	W	RW	possibly damaging
rs4317	NP_690044	S	P	SP	benign
rs4317	NP_690043	S	P	SP	benign
rs4318	NP_690044	S	G	SG	benign
rs4318	NP_690043	S	G	SG	benign
rs4364	NP_000780	R	S	RS	benign
rs4364	NP_690043	R	S	RS	benign
rs4367	NP_004280	P	S	PS	benign
rs4524	NP_000121	R	K	RK	benign
rs4526	NP_112246	A	T	AT	benign
rs4529	NP_001052	L	V	LV	benign

rs4529	NP_112246	L	V	LV	benign
rs4530	NP_000666	A	V	AV	benign
rs4531	NP_000778	A	S	AS	benign
rs4537	NP_000489	N	S	NS	benign
rs4541	NP_000488	V	A	VA	possibly damaging
rs4544	NP_000489	I	T	IT	benign
rs4545	NP_000489	G	S	GS	benign
rs4562	NP_001298	A	V	AV	benign
rs4581	NP_000033	L	V	LV	benign
rs4588	NP_000574	T	K	TK	benign
rs4602	NP_002267	A	G	AG	benign
rs4619	NP_000587	I	M	IM	benign
rs4660	NP_000573	R	H	RH	possibly damaging
rs4667	NP_004143	R	L	RL	benign
rs4673	NP_000092	H	Y	HY	possibly damaging
rs4678	XP_373419	R	Q	RQ	benign
rs4680	NP_009294	V	M	VM	benign
rs4688	NP_006423	P	L	PL	probably damaging
rs4723	NP_004699	E	K	EK	benign
rs4731	NP_004453	K	R	KR	benign
rs4737	XP_496169	A	T	AT	benign
rs4740	NP_005746	V	I	VI	benign
rs4756	NP_932172	I	V	IV	benign
rs4760	NP_002650	L	P	LP	possibly damaging
rs4762	NP_000020	T	K	TK	possibly damaging
rs4767	NP_002055	D	Y	DY	probably damaging
rs4774	NP_000237	A	G	AG	benign
rs4775	XP_208356	P	L	PL	probably damaging
rs4779	XP_495870	I	F	IF	possibly damaging
rs4784	NP_002467	G	V	GV	probably damaging
rs4785	NP_002711	V	L	VL	possibly damaging
rs4807	NP_005733	K	R	KR	benign
rs4812	NP_002611	H	D	HD	probably damaging
rs4816	NP_005380	V	I	VI	benign
rs4830	NP_982297	C	R	CR	benign
rs4830	NP_064514	C	R	CR	benign
rs4845	NP_114107	R	Q	RQ	benign
rs4864	XP_372191	V	L	VL	benign
rs4866	NP_945191	V	M	VM	benign
rs4866	NP_945192	V	M	VM	benign
rs4870	NP_003811	K	R	KR	benign
rs4872	NP_996740	D	N	DN	benign
rs4873	NP_004356	V	L	VL	benign
rs4877	NP_003678	G	C	GC	probably damaging
rs4878	NP_005331	G	R	GR	possibly damaging
rs4879	XP_371380	E	D	ED	benign

rs4880	NP_000627	V	A	VA	benign
rs4883	NP_005611	T	P	TP	benign
rs4893	NP_001416	I	V	IV	benign
rs4894	NP_877962	Q	P	QP	possibly damaging
rs4896	NP_002098	L	F	LF	benign
rs4907	NP_002786	M	L	ML	benign
rs4909	NP_006004	S	N	SN	benign
rs4911	NP_005792	Q	K	QK	probably damaging
rs4917	NP_001613	T	M	TM	benign
rs4918	NP_001613	T	S	TS	benign
rs4919	NP_009035	Q	K	QK	probably damaging
rs4920	NP_004654	K	N	KN	benign
rs4922	NP_002801	P	R	PR	probably damaging
rs4923	NP_002086	E	K	EK	benign
rs4925	NP_004823	A	D	AD	benign
rs4926	NP_000053	V	M	VM	benign
rs4929	NP_006818	S	Y	SY	benign
rs4930	NP_008960	A	G	AG	benign
rs4945	NP_005919	R	S	RS	benign
rs4948	NP_001741	A	V	AV	benign
rs4948	NP_775083	A	V	AV	benign
rs4948	NP_775084	A	V	AV	benign
rs4948	NP_775085	A	V	AV	benign
rs4961	NP_789771	G	W	GW	possibly damaging
rs4961	NP_001110	G	W	GW	possibly damaging
rs4961	NP_054908	G	W	GW	probably damaging
rs4961	NP_054909	G	W	GW	probably damaging
rs4962	NP_054908	N	I	NI	probably damaging
rs4962	NP_054909	N	I	NI	probably damaging
rs4962	NP_789771	N	I	NI	probably damaging
rs4962	NP_001110	N	I	NI	probably damaging
rs4963	NP_054908	S	C	SC	benign
rs4963	NP_054909	S	C	SC	benign
rs4963	NP_789771	S	C	SC	benign
rs4963	NP_001110	S	C	SC	benign
rs4971	NP_054908	Y	N	YN	probably damaging
rs4971	NP_054909	Y	N	YN	probably damaging
rs4971	NP_789771	Y	N	YN	probably damaging
rs4971	NP_001110	Y	N	YN	probably damaging
rs4972	NP_054908	E	D	ED	benign
rs4972	NP_054909	E	D	ED	benign
rs4972	NP_789771	E	D	ED	benign
rs4972	NP_001110	E	D	ED	benign
rs4976	NP_690044	I	T	IT	benign
rs4976	NP_000780	I	T	IT	benign
rs4976	NP_690043	I	T	IT	benign

rs4980	NP_000780	R	Q	RQ	benign
rs4980	NP_690043	R	Q	RQ	benign
rs4981	NP_000780	Q	P	QP	possibly damaging
rs4981	NP_690043	Q	P	QP	possibly damaging
rs4982	NP_059519	E	D	ED	benign
rs4982	NP_059522	E	D	ED	benign
rs4982	NP_001608	E	D	ED	benign
rs4985	NP_059517	S	R	SR	benign
rs4985	NP_059519	S	R	SR	benign
rs4985	NP_001608	S	R	SR	benign
rs4985	NP_059520	S	R	SR	possibly damaging
rs4986	NP_059517	D	N	DN	benign
rs4986	NP_059520	D	N	DN	benign
rs4986	NP_059522	D	N	DN	possibly damaging
rs4986	NP_001608	D	N	DN	possibly damaging
rs4990	NP_000666	R	H	RH	benign
rs4994	NP_000016	W	R	WR	probably damaging
rs4995	NP_000016	T	M	TM	benign
rs5005	NP_001115	S	R	SR	possibly damaging
rs5018	NP_000333	I	F	IF	benign
rs5019	NP_000333	M	L	ML	benign
rs5022	NP_000333	I	V	IV	benign
rs5023	NP_000333	S	G	SG	possibly damaging
rs5025	NP_000333	R	H	RH	probably damaging
rs5026	NP_000333	V	I	VI	benign
rs5035	NP_000333	D	A	DA	possibly damaging
rs5036	NP_000333	K	E	KE	benign
rs5037	NP_000333	R	S	RS	possibly damaging
rs5041	NP_000020	L	R	LR	benign
rs5054	NP_001619	I	F	IF	possibly damaging
rs5056	NP_001619	H	L	HL	probably damaging
rs5057	NP_001619	L	V	LV	benign
rs5061	NP_001619	G	S	GS	benign
rs5062	NP_001619	T	I	TI	benign
rs5063	NP_006163	V	M	VM	benign
rs5122	NP_000474	E	K	EK	benign
rs5126	NP_000474	K	Q	KQ	benign
rs5167	NP_001637	L	R	LR	probably damaging
rs5168	NP_001637	Q	L	QL	probably damaging
rs5170	NP_059992	I	L	IL	benign
rs5170	NP_150643	I	L	IL	benign
rs5170	NP_004622	I	L	IL	benign
rs5171	NP_059992	S	T	ST	benign
rs5171	NP_150643	S	T	ST	benign
rs5171	NP_004622	S	T	ST	benign
rs5172	NP_059992	R	Q	RQ	benign

rs5172	NP_150643	R	Q	RQ	benign
rs5172	NP_004622	R	Q	RQ	benign
rs5174	NP_059992	R	Q	RQ	benign
rs5174	NP_150643	R	Q	RQ	benign
rs5180	NP_059992	V	M	VM	benign
rs5180	NP_150643	V	M	VM	benign
rs5181	NP_059992	W	C	WC	probably damaging
rs5181	NP_150643	W	C	WC	probably damaging
rs5181	NP_004622	W	C	WC	probably damaging
rs5191	NP_000677	R	K	RK	benign
rs5195	NP_000481	P	L	PL	benign
rs5196	NP_000045	T	S	TS	benign
rs5198	NP_000045	A	V	AV	benign
rs5200	NP_000045	A	V	AV	benign
rs5215	NP_000516	V	I	VI	benign
rs5217	NP_000516	R	H	RH	possibly damaging
rs5219	NP_000516	E	K	EK	benign
rs5227	NP_002512	R	L	RL	benign
rs5229	NP_002512	R	H	RH	benign
rs5230	NP_002512	M	L	ML	benign
rs5232	NP_001718	T	P	TP	possibly damaging
rs5234	NP_001718	L	Q	LQ	possibly damaging
rs5239	NP_001732	D	N	DN	benign
rs5241	NP_001732	S	R	SR	benign
rs5246	NP_001827	G	R	GR	possibly damaging
rs5247	NP_001827	H	R	HR	probably damaging
rs5251	NP_000076	V	L	VL	benign
rs5253	NP_000076	T	M	TM	benign
rs5256	NP_000076	S	R	SR	benign
rs5259	NP_000076	N	H	NH	benign
rs5267	NP_077720	R	Q	RQ	benign
rs5272	NP_000954	E	G	EG	probably damaging
rs5273	NP_000954	V	A	VA	benign
rs5288	NP_000488	F	L	FL	benign
rs5291	NP_000488	S	N	SN	benign
rs5292	NP_000488	L	V	LV	benign
rs5308	NP_000489	N	T	NT	benign
rs5312	NP_000488	E	V	EV	probably damaging
rs5312	NP_000489	E	V	EV	probably damaging
rs5317	NP_000489	F	V	FV	probably damaging
rs5319	NP_000778	E	Q	EQ	benign
rs5320	NP_000778	A	T	AT	benign
rs5321	NP_000778	K	N	KN	benign
rs5323	NP_000778	E	Q	EQ	benign
rs5324	NP_000778	D	N	DN	benign
rs5325	NP_000778	L	P	LP	possibly damaging

rs5327	NP_000785	T	P	TP	possibly damaging
rs5328	NP_000785	T	R	TR	possibly damaging
rs5330	NP_000785	R	S	RS	possibly damaging
rs5331	NP_000785	S	A	SA	benign
rs5345	NP_003982	L	Q	LQ	benign
rs5345	NP_000106	L	Q	LQ	benign
rs5346	NP_003982	L	F	LF	benign
rs5346	NP_000106	L	F	LF	benign
rs5347	NP_000106	F	V	FV	possibly damaging
rs5347	NP_003982	F	V	FV	probably damaging
rs5350	NP_003982	T	M	TM	possibly damaging
rs5350	NP_000106	T	M	TM	possibly damaging
rs5352	NP_003982	S	N	SN	benign
rs5352	NP_000106	S	N	SN	benign
rs5361	NP_000441	S	R	SR	possibly damaging
rs5364	NP_000441	E	K	EK	benign
rs5366	NP_000441	E	Q	EQ	benign
rs5368	NP_000441	Y	H	YH	probably damaging
rs5370	NP_001946	N	K	NK	benign
rs5376	NP_001471	N	S	NS	benign
rs5377	NP_001471	P	L	PL	probably damaging
rs5388	NP_072053	V	I	VI	benign
rs5388	NP_072054	V	I	VI	benign
rs5388	NP_000506	V	I	VI	benign
rs5389	NP_072051	R	W	RW	possibly damaging
rs5389	NP_072050	R	W	RW	possibly damaging
rs5389	NP_072052	R	W	RW	probably damaging
rs5389	NP_002050	R	W	RW	probably damaging
rs5392	NP_000155	L	V	LV	benign
rs5397	NP_000331	L	V	LV	benign
rs5400	NP_000331	T	I	TI	possibly damaging
rs5434	NP_001033	T	S	TS	benign
rs5442	NP_002066	G	S	GS	possibly damaging
rs5444	NP_002066	W	L	WL	probably damaging
rs5447	NP_002094	M	V	MV	benign
rs5450	NP_002094	E	Q	EQ	benign
rs5453	NP_002094	P	A	PA	probably damaging
rs5455	NP_002094	I	M	IM	possibly damaging
rs5456	NP_002094	K	E	KE	possibly damaging
rs5461	NP_002094	N	S	NS	possibly damaging
rs5465	NP_002094	E	G	EG	benign
rs5491	NP_000192	K	M	KM	benign
rs5492	NP_000192	K	N	KN	benign
rs5495	NP_000192	V	M	VM	benign
rs5497	NP_000192	R	Q	RQ	possibly damaging
rs5498	NP_000192	E	K	EK	benign

rs5503	NP_000864	A	T	AT	benign
rs5504	NP_000864	R	H	RH	benign
rs5515	NP_002248	R	H	RH	probably damaging
rs5516	NP_002248	E	Q	EQ	benign
rs5517	NP_002248	K	E	KE	benign
rs5518	NP_002248	V	E	VE	benign
rs5522	NP_000892	I	V	IV	benign
rs5523	NP_000892	N	T	NT	benign
rs5526	NP_000892	R	Q	RQ	possibly damaging
rs5527	NP_000892	N	S	NS	benign
rs5557	NP_066920	E	V	EV	probably damaging
rs5558	NP_001034	F	C	FC	benign
rs5559	NP_001034	Y	H	YH	possibly damaging
rs5563	NP_001034	N	T	NT	benign
rs5565	NP_001034	V	L	VL	benign
rs5566	NP_001034	A	P	AP	possibly damaging
rs5567	NP_001034	N	S	NS	benign
rs5570	NP_001034	K	R	KR	benign
rs5571	NP_000896	L	M	LM	benign
rs5578	NP_000900	K	T	KT	possibly damaging
rs5584	NP_000952	P	S	PS	possibly damaging
rs5622	NP_000952	S	R	SR	benign
rs5623	NP_000952	E	A	EA	benign
rs5624	NP_000952	F	L	FL	benign
rs5626	NP_000952	R	C	RC	possibly damaging
rs5632	NP_000919	D	A	DA	benign
rs5635	NP_000919	N	T	NT	benign
rs5636	NP_000919	N	K	NK	possibly damaging
rs5639	NP_002677	S	C	SC	benign
rs5640	NP_002677	L	H	LH	benign
rs5641	NP_002677	L	Q	LQ	probably damaging
rs5642	NP_002677	R	H	RH	possibly damaging
rs5643	NP_002677	W	R	WR	possibly damaging
rs5650	NP_002045	A	V	AV	benign
rs5658	NP_009048	L	V	LV	benign
rs5670	NP_000948	M	L	ML	benign
rs5670	NP_942005	M	L	ML	benign
rs5670	NP_942008	M	L	ML	benign
rs5670	NP_942009	M	L	ML	benign
rs5670	NP_942010	M	L	ML	benign
rs5670	NP_942011	M	L	ML	benign
rs5670	NP_942006	M	L	ML	benign
rs5670	NP_942013	M	L	ML	benign
rs5694	NP_942013	P	L	PL	probably damaging
rs5713	NP_005613	L	P	LP	probably damaging
rs5713	NP_973729	L	P	LP	probably damaging



rs5716	NP_005613	K	N	KN	benign
rs5716	NP_973729	K	N	KN	benign
rs5733	NP_001030	G	C	GC	probably damaging
rs5736	NP_001030	G	S	GS	benign
rs5743	NP_001051	C	S	CS	probably damaging
rs5744	NP_001051	V	E	VE	possibly damaging
rs5746	NP_001051	E	V	EV	possibly damaging
rs5749	NP_001051	A	T	AT	benign
rs5750	NP_001051	V	E	VE	possibly damaging
rs5751	NP_001051	V	I	VI	benign
rs5760	NP_001052	G	V	GV	probably damaging
rs5760	NP_112246	G	V	GV	probably damaging
rs5762	NP_001052	R	C	RC	probably damaging
rs5762	NP_112246	R	C	RC	probably damaging
rs5763	NP_112246	T	N	TN	benign
rs5768	NP_001052	D	E	DE	benign
rs5768	NP_112246	D	E	DE	benign
rs5769	NP_112246	K	E	KE	benign
rs5770	NP_001052	R	G	RG	probably damaging
rs5770	NP_112246	R	G	RG	probably damaging
rs5771	NP_001052	Q	K	QK	benign
rs5771	NP_112246	Q	K	QK	benign
rs5774	NP_003292	N	K	NK	possibly damaging
rs5789	NP_000953	L	M	LM	benign
rs5789	NP_542158	L	M	LM	benign
rs5791	NP_542158	K	R	KR	benign
rs5791	NP_000953	K	R	KR	possibly damaging
rs5792	NP_000953	I	V	IV	benign
rs5792	NP_542158	I	V	IV	benign
rs5793	NP_000953	K	E	KE	possibly damaging
rs5793	NP_542158	K	E	KE	possibly damaging
rs5794	NP_000953	V	I	VI	benign
rs5794	NP_542158	V	I	VI	benign
rs5798	NP_001947	F	L	FL	benign
rs5811	NP_006507	K	T	KT	possibly damaging
rs5816	NP_000898	Q	E	QE	benign
rs5816	NP_003986	Q	E	QE	benign
rs5880	NP_000069	A	P	AP	benign
rs5881	NP_000069	G	S	GS	possibly damaging
rs5882	NP_000069	I	V	IV	benign
rs5887	NP_000069	V	M	VM	benign
rs5893	NP_001983	S	G	SG	benign
rs5896	NP_000497	T	M	TM	possibly damaging
rs5897	NP_000497	P	T	PT	probably damaging
rs5901	NP_001984	R	W	RW	benign
rs5904	NP_000176	T	M	TM	possibly damaging

rs5905	NP_000176	A	T	AT	benign
rs5907	NP_000176	R	H	RH	possibly damaging
rs5908	NP_000850	I	V	IV	benign
rs5911	NP_000410	I	S	IS	benign
rs5914	NP_000410	Y	N	YN	probably damaging
rs5915	NP_000410	T	I	TI	possibly damaging
rs5917	NP_000203	R	Q	RQ	possibly damaging
rs5918	NP_000203	L	P	LP	benign
rs5921	NP_000203	V	I	VI	benign
rs5928	NP_000518	R	Q	RQ	benign
rs5931	NP_000518	G	R	GR	probably damaging
rs5932	NP_000518	V	I	VI	benign
rs5934	NP_000228	A	T	AT	benign
rs5938	NP_000943	A	D	AD	benign
rs5939	NP_000943	N	S	NS	benign
rs5940	NP_006278	V	M	VM	benign
rs5941	NP_005130	F	S	FS	probably damaging
rs5948	NP_005130	I	N	IN	possibly damaging
rs5949	NP_005130	P	L	PL	probably damaging
rs5951	NP_005130	S	N	SN	benign
rs5954	NP_001638	S	L	SL	possibly damaging
rs5955	NP_001638	T	K	TK	possibly damaging
rs5961	NP_000495	Q	H	QH	benign
rs5967	NP_000119	C	F	CF	probably damaging
rs5968	NP_000119	P	L	PL	possibly damaging
rs5969	NP_000119	Q	R	QR	benign
rs5972	NP_000119	I	F	IF	possibly damaging
rs5982	NP_000120	P	L	PL	benign
rs5983	NP_000120	L	Q	LQ	benign
rs5984	NP_000120	T	I	TI	benign
rs5985	NP_000120	V	L	VL	benign
rs5987	NP_000120	V	I	VI	benign
rs5988	NP_000120	Q	E	QE	benign
rs5991	NP_001985	E	V	EV	possibly damaging
rs5999	NP_001985	H	R	HR	benign
rs6000	NP_001985	D	E	DE	benign
rs6001	NP_001985	Y	S	YS	probably damaging
rs6002	NP_001985	M	V	MV	benign
rs6003	NP_001985	H	R	HR	benign
rs6005	NP_000121	H	Q	HQ	possibly damaging
rs6007	NP_000121	E	A	EA	benign
rs6011	NP_000121	T	S	TS	benign
rs6018	NP_000121	N	T	NT	possibly damaging
rs6019	NP_000121	D	H	DH	benign
rs6020	NP_000121	R	K	RK	benign
rs6025	NP_000121	R	Q	RQ	benign

rs6026	NP_000121	M	I	MI	benign
rs6027	NP_000121	D	G	DG	benign
rs6030	NP_000121	V	M	VM	benign
rs6031	NP_000121	P	S	PS	possibly damaging
rs6033	NP_000121	M	T	MT	benign
rs6045	NP_062562	V	D	VD	possibly damaging
rs6045	NP_000122	V	D	VD	possibly damaging
rs6046	NP_062562	R	Q	RQ	benign
rs6046	NP_000122	R	Q	RQ	benign
rs6048	NP_000124	T	A	TA	possibly damaging
rs6050	NP_068657	T	A	TA	benign
rs6050	NP_000499	T	A	TA	benign
rs6052	NP_068657	K	E	KE	benign
rs6052	NP_000499	K	E	KE	benign
rs6054	NP_005132	P	L	PL	probably damaging
rs6061	NP_068656	M	V	MV	probably damaging
rs6061	NP_000500	M	V	MV	probably damaging
rs6063	NP_068656	G	R	GR	probably damaging
rs6063	NP_000500	G	R	GR	probably damaging
rs6065	NP_000164	T	M	TM	benign
rs6068	NP_000164	R	H	RH	benign
rs6072	NP_005542	V	L	VL	benign
rs6078	NP_000227	V	M	VM	benign
rs6079	NP_000227	S	N	SN	benign
rs6083	NP_000227	N	S	NS	benign
rs6087	NP_005364	A	V	AV	benign
rs6088	NP_005364	E	K	EK	benign
rs6090	NP_000593	V	I	VI	benign
rs6092	NP_000593	A	T	AT	benign
rs6098	NP_002566	N	D	ND	benign
rs6100	NP_002566	R	H	RH	benign
rs6103	NP_002566	N	K	NK	benign
rs6104	NP_002566	S	C	SC	possibly damaging
rs6114	NP_000615	G	R	GR	possibly damaging
rs6115	NP_000615	N	S	NS	benign
rs6118	NP_000615	A	V	AV	benign
rs6119	NP_000615	K	E	KE	benign
rs6120	NP_000615	P	A	PA	probably damaging
rs6122	NP_000304	T	M	TM	possibly damaging
rs6124	NP_002996	P	L	PL	probably damaging
rs6127	NP_002996	N	D	ND	benign
rs6130	NP_002996	S	F	SF	benign
rs6131	NP_002996	S	N	SN	benign
rs6133	NP_002996	L	V	LV	benign
rs6134	NP_002996	M	V	MV	benign
rs6136	NP_002996	T	P	TP	benign

rs6137	NP_112246	L	I	LI	benign
rs6138	NP_112246	R	H	RH	possibly damaging
rs6140	NP_001052	I	T	IT	possibly damaging
rs6140	NP_112246	I	T	IT	possibly damaging
rs6146	NP_003374	E	K	EK	benign
rs6149	NP_003374	V	I	VI	benign
rs6161	NP_000772	E	K	EK	benign
rs6165	NP_852111	A	T	AT	benign
rs6165	NP_000136	A	T	AT	benign
rs6166	NP_852111	S	N	SN	benign
rs6166	NP_000136	S	N	SN	benign
rs6167	NP_852111	S	R	SR	possibly damaging
rs6167	NP_000136	S	R	SR	possibly damaging
rs6170	NP_000501	S	I	SI	benign
rs6174	NP_072053	S	C	SC	benign
rs6174	NP_072054	S	C	SC	possibly damaging
rs6174	NP_000506	S	C	SC	probably damaging
rs6177	NP_000154	R	H	RH	possibly damaging
rs6180	NP_000154	I	L	IL	benign
rs6181	NP_000154	R	H	RH	benign
rs6182	NP_000154	C	F	CF	probably damaging
rs6183	NP_000154	P	T	PT	probably damaging
rs6184	NP_000154	P	T	PT	benign
rs6185	NP_000816	S	W	SW	benign
rs6190	NP_000167	R	K	RK	benign
rs6192	NP_000167	F	V	FV	possibly damaging
rs6195	NP_000167	N	S	NS	benign
rs6201	NP_000853	I	V	IV	benign
rs6205	NP_000853	F	L	FL	benign
rs6211	NP_000189	E	Q	EQ	benign
rs6232	NP_000430	N	D	ND	benign
rs6234	NP_000430	Q	E	QE	benign
rs6235	NP_000430	S	T	ST	benign
rs6258	NP_001031	P	L	PL	probably damaging
rs6259	NP_001031	D	N	DN	benign
rs6260	NP_001031	R	H	RH	probably damaging
rs6262	NP_000781	P	L	PL	probably damaging
rs6263	NP_000781	M	V	MV	benign
rs6264	NP_000781	V	M	VM	benign
rs6265	NP_733931	V	M	VM	benign
rs6265	NP_733930	V	M	VM	benign
rs6265	NP_733927	V	M	VM	benign
rs6266	NP_000605	H	R	HR	probably damaging
rs6267	NP_009294	A	S	AS	benign
rs6270	NP_000745	C	S	CS	benign
rs6271	NP_000778	R	C	RC	probably damaging

rs6280	NP_387507	S	G	SG	benign
rs6280	NP_387508	S	G	SG	benign
rs6280	NP_387509	S	G	SG	benign
rs6280	NP_000787	S	G	SG	benign
rs6282	NP_000789	L	R	LR	possibly damaging
rs6291	NP_002036	V	I	VI	benign
rs6299	NP_000855	S	L	SL	benign
rs6303	NP_000856	S	F	SF	possibly damaging
rs6304	NP_000612	I	V	IV	benign
rs6308	NP_000612	A	V	AV	benign
rs6314	NP_000612	H	Y	HY	probably damaging
rs6318	NP_000859	C	S	CS	benign
rs6330	NP_002497	V	A	VA	benign
rs6336	NP_002520	H	Y	HY	possibly damaging
rs6339	NP_002520	G	V	GV	benign
rs6345	NP_001035	R	Q	RQ	benign
rs6352	NP_001036	K	N	KN	possibly damaging
rs6355	NP_001036	G	A	GA	benign
rs6356	NP_954987	V	M	VM	benign
rs6356	NP_000351	V	M	VM	benign
rs6356	NP_954986	V	M	VM	benign
rs6407	NP_000488	A	T	AT	benign
rs6438	NP_000489	A	T	AT	benign
rs6441	NP_000489	R	Q	RQ	benign
rs6445	NP_000491	P	S	PS	probably damaging
rs6471	NP_000491	V	L	VL	benign
rs6472	NP_000491	S	T	ST	benign
rs6473	NP_000491	S	N	SN	benign
rs6474	NP_000491	R	K	RK	benign
rs6475	NP_000491	I	N	IN	benign
rs6476	NP_000491	M	K	MK	benign
rs6499	NP_116559	D	H	DH	possibly damaging
rs6499	NP_002898	D	H	DH	possibly damaging
rs6501	NP_116559	K	T	KT	benign
rs6501	NP_002898	K	T	KT	benign
rs6510	NP_003105	H	Y	HY	possibly damaging
rs6510	NP_757367	H	Y	HY	possibly damaging
rs6511	NP_003105	M	T	MT	benign
rs6511	NP_757367	M	T	MT	benign
rs6522	NP_002177	E	Q	EQ	benign
rs6522	NP_789743	E	Q	EQ	benign
rs6525	NP_861525	H	R	HR	possibly damaging
rs6529	NP_066963	A	T	AT	benign
rs6561	NP_056441	L	S	LS	benign
rs6561	NP_599026	L	S	LS	possibly damaging
rs6574	NP_005782	E	K	EK	benign

rs6577	NP_000837	E	A	EA	benign
rs6643	NP_057578	Y	H	YH	possibly damaging
rs6647	NP_000286	V	A	VA	benign
rs6682	NP_076436	A	V	AV	benign
rs6753	NP_006383	M	T	MT	benign
rs6791	NP_008880	V	I	VI	benign
rs6794	NP_055819	L	V	LV	benign
rs6834	NP_005539	T	S	TS	benign
rs6887	XP_496289	C	S	CS	benign
rs6901	NP_055704	Q	R	QR	benign
rs6940	NP_005522	T	S	TS	benign
rs6952	XP_058961	S	A	SA	benign
rs6962	NP_004159	I	V	IV	benign
rs6971	NP_000705	A	T	AT	benign
rs6972	NP_000705	H	R	HR	benign
rs7006	NP_056263	L	S	LS	benign
rs7007	NP_113608	E	G	EG	possibly damaging
rs7011	NP_116019	R	H	RH	benign
rs7041	NP_000574	D	E	DE	benign
rs7050	NP_663620	T	I	TI	possibly damaging
rs7052	NP_663620	R	K	RK	benign
rs7056	NP_115534	K	R	KR	benign
rs7056	NP_683738	K	R	KR	benign
rs7127	NP_057712	T	S	TS	benign
rs7127	NP_567822	T	S	TS	benign
rs7127	NP_567823	T	S	TS	benign
rs7163	NP_006815	R	H	RH	benign
rs7166	NP_996667	A	D	AD	benign
rs7166	NP_006108	A	D	AD	benign
rs7185	NP_005678	I	V	IV	benign
rs7192	NP_061984	V	L	VL	benign
rs7251	NP_001562	S	T	ST	benign
rs7313	NP_061902	V	A	VA	benign
rs7313	NP_112601	V	A	VA	benign
rs7412	NP_000032	R	C	RC	benign
rs7437	NP_542159	A	S	AS	benign
rs7437	NP_057169	A	S	AS	benign
rs7462	NP_060386	P	L	PL	benign
rs7483	NP_000840	V	I	VI	benign
rs7539	NP_620829	E	Q	EQ	benign
rs7539	NP_620832	E	Q	EQ	benign
rs7539	NP_620830	E	Q	EQ	benign
rs7540	NP_115682	R	Q	RQ	benign
rs7575	NP_003767	R	H	RH	possibly damaging
rs7640	NP_060551	A	G	AG	benign
rs7648	NP_076974	A	P	AP	benign

rs7775	NP_001454	R	G	RG	probably damaging
rs7790	NP_001125	A	G	AG	benign
rs7799	NP_758961	N	S	NS	benign
rs7813	NP_056536	R	C	RC	possibly damaging
rs7824	NP_001302	A	V	AV	possibly damaging
rs7887	NP_079532	N	T	NT	benign
rs7887	NP_006700	N	T	NT	benign
rs7895	XP_371182	T	A	TA	benign
rs7946	NP_680478	V	M	VM	benign
rs7990	NP_002113	A	D	AD	benign
rs7990	NP_064440	A	D	AD	benign
rs7999	NP_055190	K	R	KR	benign
rs8002	NP_982283	T	I	TI	possibly damaging
rs8099	NP_057105	G	V	GV	probably damaging
rs8131	NP_061924	L	F	LF	benign
rs8144	NP_060095	R	P	RP	probably damaging
rs8147	NP_057390	I	V	IV	benign
rs8207	NP_004783	N	D	ND	benign
rs8237	NP_006422	V	F	VF	possibly damaging
rs8286	NP_000656	V	E	VE	probably damaging
rs8286	NP_056646	V	E	VE	probably damaging
rs8289	NP_005808	I	V	IV	benign
rs8296	NP_777280	T	A	TA	possibly damaging
rs8305	NP_009126	T	A	TA	benign
rs8337	NP_006389	S	C	SC	benign
rs8340	NP_861522	Y	D	YD	benign
rs8350	NP_000286	C	W	CW	probably damaging
rs8363	NP_055398	R	W	RW	probably damaging
rs8392	XP_059776	H	R	HR	benign
rs8418	NP_056195	V	I	VI	benign
rs8451	NP_060618	R	S	RS	benign
rs8455	NP_064554	R	H	RH	possibly damaging
rs8473	NP_002408	K	E	KE	benign
rs8480	NP_113608	E	A	EA	benign
rs8500	NP_872286	V	M	VM	benign
rs8500	NP_872282	V	M	VM	benign
rs8572	NP_005006	V	A	VA	benign
rs8634	NP_056525	D	A	DA	probably damaging
rs8660	NP_653182	I	V	IV	benign
rs8755	NP_203698	R	G	RG	benign
rs8755	NP_001777	R	G	RG	possibly damaging
rs8801	NP_005547	G	C	GC	probably damaging
rs8821	NP_002009	R	H	RH	benign
rs8875	NP_004540	L	V	LV	benign
rs8923	NP_006432	T	A	TA	benign
rs8940	NP_001224	Q	E	QE	possibly damaging

rs8957	NP_064446	E	D	ED	benign
rs8971	NP_000810	D	G	DG	possibly damaging
rs8986	NP_536351	R	L	RL	probably damaging
rs8986	NP_000507	R	L	RL	probably damaging
rs9001	NP_060867	E	A	EA	possibly damaging
rs9002	XP_291111	V	M	VM	benign
rs9013	NP_003928	K	E	KE	benign
rs9014	NP_005756	P	A	PA	benign
rs9016	NP_000574	H	R	HR	benign
rs9057	NP_057198	T	I	TI	benign
rs9073	NP_620311	V	M	VM	benign
rs9073	NP_055391	V	M	VM	benign
rs9073	NP_620310	V	M	VM	benign
rs9087	NP_060199	G	D	GD	possibly damaging
rs9087	NP_573441	G	D	GD	possibly damaging
rs9087	NP_631943	G	D	GD	possibly damaging
rs9088	NP_060957	T	A	TA	benign
rs9114	NP_009140	L	P	LP	possibly damaging
rs9133	NP_001297	A	S	AS	benign
rs9169	NP_001488	H	R	HR	benign
rs9191	NP_115867	D	H	DH	possibly damaging
rs9197	NP_004719	A	S	AS	benign
rs9202	NP_060904	N	K	NK	benign
rs9209	NP_066399	S	T	ST	benign
rs9209	NP_066400	S	T	ST	benign
rs9209	NP_000539	S	T	ST	benign
rs9250	NP_056386	C	Y	CY	possibly damaging
rs9257	NP_056330	T	A	TA	benign
rs9257	NP_775320	T	A	TA	benign
rs9260	NP_064440	M	V	MV	benign
rs9262	XP_495929	V	L	VL	benign
rs9280	NP_073598	V	A	VA	benign
rs9346	NP_057554	V	G	VG	possibly damaging
rs9350	NP_003677	P	L	PL	probably damaging
rs9350	NP_569082	P	L	PL	probably damaging
rs9352	NP_005474	V	A	VA	benign
rs9354	NP_006058	A	V	AV	benign
rs9357	NP_056018	S	G	SG	benign
rs9365	NP_783313	G	C	GC	benign
rs9438	NP_065916	C	S	CS	benign
rs9439	NP_958505	N	H	NH	benign
rs9464	NP_060805	P	S	PS	possibly damaging
rs9470	NP_150644	A	V	AV	benign
rs9470	NP_000964	A	V	AV	benign
rs9517	NP_037539	Q	E	QE	benign
rs9517	NP_037538	Q	E	QE	possibly damaging



rs9517	NP_001921	Q	E	QE	probably damaging
rs9526	NP_057581	M	I	MI	probably damaging
rs9530	NP_000172	P	L	PL	probably damaging
rs9575	NP_061327	D	N	DN	benign
rs9575	NP_872289	D	N	DN	benign
rs9575	NP_057227	D	N	DN	benign
rs9593	NP_443077	M	K	MK	possibly damaging
rs9600	NP_004542	P	Q	PQ	possibly damaging
rs9604	NP_065159	R	S	RS	benign
rs9614	NP_036300	K	T	KT	benign
rs9621	NP_004354	G	R	GR	possibly damaging
rs9624	NP_776245	L	R	LR	probably damaging
rs9632	NP_000929	E	K	EK	possibly damaging
rs9744	XP_209704	R	T	RT	probably damaging
rs9748	NP_002775	R	H	RH	benign
rs9754	NP_065159	F	S	FS	benign
rs9790	NP_079069	R	W	RW	probably damaging
rs9809	NP_002606	V	I	VI	benign
rs9820	NP_003810	Y	F	YF	benign
rs9854	NP_958861	S	F	SF	probably damaging
rs9855	NP_116197	S	F	SF	benign
rs9865	NP_950245	I	V	IV	benign
rs9869	XP_043500	L	P	LP	possibly damaging
rs9882	NP_061894	A	V	AV	benign
rs9898	NP_000403	P	S	PS	benign
rs9969	NP_078965	R	Q	RQ	benign
rs9971	NP_877495	D	Y	DY	possibly damaging
rs9971	NP_068779	D	Y	DY	possibly damaging
rs9989	NP_002219	T	M	TM	probably damaging
rs10004	NP_003135	S	L	SL	benign
rs10012	NP_000095	R	G	RG	benign
rs10017	NP_659494	G	R	GR	benign
rs10067	NP_002548	H	Q	HQ	probably damaging
rs10093	NP_064440	E	Q	EQ	benign
rs10172	NP_690876	T	A	TA	benign
rs10240	XP_053074	A	D	AD	benign
rs10242	NP_006405	I	T	IT	benign
rs10242	NP_892117	I	T	IT	benign
rs10243	NP_060111	G	D	GD	possibly damaging
rs10265	NP_932068	A	S	AS	benign
rs10278	NP_005822	P	A	PA	possibly damaging
rs10317	NP_006346	G	R	GR	possibly damaging
rs10330	NP_955476	T	I	TI	benign
rs10330	NP_009194	T	I	TI	possibly damaging
rs10342	NP_003916	A	T	AT	benign
rs10371	NP_570123	A	T	AT	benign

rs10379	NP_660206	A	E	AE	benign
rs10380	NP_076915	H	Y	HY	benign
rs10380	NP_002445	H	Y	HY	benign
rs10444	NP_775269	S	P	SP	benign
rs10455	NP_079119	N	S	NS	benign
rs10480	NP_114107	R	C	RC	benign
rs10502	NP_057105	L	V	LV	benign
rs10563	NP_001013	K	R	KR	benign
rs10583	NP_006396	R	H	RH	benign
rs10642	NP_056988	S	G	SG	benign
rs10676	NP_078981	G	R	GR	benign
rs10716	NP_115595	P	S	PS	possibly damaging
rs10755	NP_982297	F	L	FL	benign
rs10755	NP_064514	F	L	FL	benign
rs10767	NP_071401	V	D	VD	possibly damaging
rs10770	NP_000403	I	T	IT	benign
rs10776	NP_116056	A	T	AT	benign
rs10788	NP_036271	G	E	GE	possibly damaging
rs10794	XP_371204	D	N	DN	benign
rs10806	NP_065190	R	L	RL	possibly damaging
rs10820	NP_057049	Q	K	QK	benign
rs10846	NP_002732	V	I	VI	benign
rs10846	NP_998725	V	I	VI	benign
rs10869	NP_036583	T	A	TA	benign
rs10885	NP_004629	P	S	PS	probably damaging
rs10885	NP_542417	P	S	PS	probably damaging
rs10920	NP_057717	M	K	MK	benign
rs10921	NP_000499	S	R	SR	benign
rs10921	NP_068657	S	R	SR	possibly damaging
rs10949	NP_060370	I	T	IT	benign
rs10953	XP_291763	V	A	VA	benign
rs10960	NP_000287	I	V	IV	benign
rs10963	NP_113679	D	N	DN	benign
rs10988	NP_064502	K	R	KR	benign
rs11079	NP_065758	M	V	MV	benign
rs11097	NP_006327	L	I	LI	benign
rs11106	NP_002408	T	S	TS	benign
rs11119	XP_496612	C	F	CF	possibly damaging
rs11127	NP_006424	T	I	TI	benign
rs11146	NP_112241	Y	H	YH	probably damaging
rs11154	NP_002083	P	S	PS	possibly damaging
rs11159	NP_003721	R	W	RW	benign
rs11177	NP_055181	R	Q	RQ	benign
rs11177	NP_996562	R	Q	RQ	benign
rs11250	NP_001803	F	L	FL	benign
rs11268	NP_000794	A	D	AD	possibly damaging

rs11276	NP_066549	N	D	ND	benign
rs11278	NP_116221	E	Q	EQ	benign
rs11307	NP_002083	P	A	PA	possibly damaging
rs11349	NP_006585	I	F	IF	benign
rs11357	NP_002444	I	V	IV	benign
rs11377	NP_002572	Q	H	QH	benign
rs11380	NP_057581	L	F	LF	benign
rs11385	NP_874368	D	E	DE	benign
rs11385	NP_874369	D	E	DE	benign
rs11385	NP_006379	D	E	DE	benign
rs11435	NP_689763	V	I	VI	benign
rs11474	NP_995317	F	Y	FY	benign
rs11479	NP_001944	S	L	SL	benign
rs11499	NP_005078	A	V	AV	benign
rs11502	NP_892017	A	V	AV	benign
rs11507	NP_006312	E	K	EK	benign
rs11531	NP_006286	P	S	PS	possibly damaging
rs11551	NP_001987	R	L	RL	benign
rs11562	NP_067060	R	S	RS	benign
rs11564	NP_076977	R	Q	RQ	benign
rs11570	NP_056291	D	Y	DY	benign
rs11574	NP_002158	A	T	AT	benign
rs11591	NP_076424	A	T	AT	benign
rs11613	NP_056448	A	P	AP	benign
rs11640	NP_057230	D	A	DA	possibly damaging
rs11687	NP_078908	E	Q	EQ	benign
rs11706	NP_852130	S	L	SL	possibly damaging
rs11731	XP_166529	S	L	SL	benign
rs11735	NP_112578	T	K	TK	possibly damaging
rs11746	NP_116127	R	Q	RQ	benign
rs11754	NP_659421	Q	H	QH	possibly damaging
rs11759	NP_000204	D	Y	DY	probably damaging
rs11792	NP_054908	E	D	ED	benign
rs11792	NP_001110	E	D	ED	benign
rs11813	NP_776251	F	L	FL	benign
rs11820	NP_892115	A	S	AS	benign
rs11952	NP_775744	F	L	FL	benign
rs11955	NP_114107	A	D	AD	benign
rs11957	NP_065203	L	F	LF	benign
rs11965	NP_001307	Q	E	QE	benign
rs11974	NP_055439	H	R	HR	possibly damaging
rs11981	XP_371107	L	P	LP	benign
rs11987	NP_835225	V	A	VA	benign
rs11989	NP_057153	Q	K	QK	benign
rs12000	XP_167149	Y	C	YC	probably damaging
rs12003	NP_057657	D	N	DN	benign

rs12042	NP_000109	T	R	TR	possibly damaging
rs12043	NP_002788	L	M	LM	benign
rs12046	XP_371107	S	I	SI	possibly damaging
rs12075	NP_002027	G	D	GD	possibly damaging
rs12077	NP_000286	G	W	GW	probably damaging
rs12083	NP_060725	Y	C	YC	probably damaging
rs12109	NP_037394	V	L	VL	benign
rs12110	NP_659003	R	H	RH	possibly damaging
rs12118	NP_536355	A	E	AE	benign
rs12125	NP_114140	V	L	VL	benign
rs12157	NP_060618	E	D	ED	benign
rs12175	XP_377713	P	S	PS	possibly damaging
rs12233	NP_000286	P	S	PS	benign
rs12249	NP_542172	H	R	HR	probably damaging
rs12257	NP_079437	D	N	DN	benign
rs12281	NP_976221	W	L	WL	probably damaging
rs12338	NP_680090	L	V	LV	possibly damaging
rs12338	NP_680091	L	V	LV	possibly damaging
rs12338	NP_680092	L	V	LV	possibly damaging
rs12338	NP_680093	L	V	LV	possibly damaging
rs12338	NP_001899	L	V	LV	possibly damaging
rs12339	NP_004171	L	F	LF	benign
rs12377	XP_372083	R	S	RS	benign
rs12388	NP_002216	Y	H	YH	probably damaging
rs12402	NP_054901	F	L	FL	possibly damaging
rs12408	NP_079305	G	W	GW	possibly damaging
rs12454	NP_057710	G	C	GC	benign
rs12459	NP_570720	S	T	ST	possibly damaging
rs12482	NP_004517	I	S	IS	probably damaging
rs12497	NP_071942	R	W	RW	probably damaging
rs12499	NP_060947	T	S	TS	benign
rs12505	NP_001814	L	F	LF	benign
rs12529	NP_003730	H	Q	HQ	benign
rs12544	NP_000033	E	G	EG	possibly damaging
rs12571	NP_005868	G	D	GD	possibly damaging
rs12572	NP_689677	V	I	VI	benign
rs12577	NP_061879	E	D	ED	benign
rs12582	NP_060880	S	F	SF	benign
rs12648	NP_060838	D	E	DE	benign
rs12676	NP_060867	R	L	RL	benign
rs12689	XP_377716	N	S	NS	benign
rs12709	NP_004062	E	G	EG	benign
rs12759	NP_004801	L	F	LF	benign
rs12763	NP_059973	G	S	GS	benign
rs12788	NP_689499	R	H	RH	possibly damaging
rs12807	NP_003324	L	R	LR	benign

rs12812	NP_066957	T	A	TA	benign
rs12820	NP_000983	V	D	VD	benign
rs12824	NP_001634	T	A	TA	possibly damaging
rs12834	NP_115866	F	L	FL	benign
rs12864	NP_036234	Q	H	QH	benign
rs12865	NP_056194	T	A	TA	benign
rs12890	NP_061879	E	K	EK	possibly damaging
rs12893	XP_291064	E	K	EK	benign
rs12917	NP_002403	L	F	LF	benign
rs12949	NP_002279	S	T	ST	benign
rs12960	NP_003110	R	Q	RQ	benign
rs12993	NP_000603	K	N	KN	benign
rs13018	NP_004137	S	N	SN	benign
rs13021	NP_002678	S	G	SG	benign
rs13043	NP_060617	L	S	LS	benign
rs13087	NP_076988	D	E	DE	benign
rs13088	NP_659421	F	S	FS	benign
rs13097	NP_787114	C	Y	CY	probably damaging
rs13151	NP_775918	E	D	ED	benign
rs13181	NP_000391	K	Q	KQ	benign
rs13206	NP_006387	S	Y	SY	possibly damaging
rs13237	NP_060917	M	T	MT	probably damaging
rs13268	NP_006477	H	R	HR	benign
rs13294	NP_004416	S	G	SG	benign
rs13294	NP_073155	S	G	SG	benign
rs13303	NP_055951	T	M	TM	benign
rs13321	NP_002151	Q	E	QE	benign
rs13330	NP_056480	K	M	KM	benign
rs13394	NP_060386	V	I	VI	benign
rs13412	NP_006446	Q	R	QR	benign
rs13427	NP_036346	N	D	ND	benign
rs13428	NP_006428	R	G	RG	benign
rs13441	NP_005103	I	V	IV	benign
rs13441	NP_059830	I	V	IV	benign
rs13462	XP_114317	V	F	VF	possibly damaging
rs13502	NP_000982	R	L	RL	possibly damaging
rs13508	NP_005821	N	D	ND	benign
rs13538	NP_003951	S	F	SF	probably damaging
rs13560	NP_114367	R	C	RC	probably damaging
rs13560	NP_114368	R	C	RC	probably damaging
rs13560	NP_002810	R	C	RC	probably damaging
rs13571	NP_057575	C	S	CS	benign
rs13574	NP_006825	E	D	ED	benign
rs13579	NP_001004	R	S	RS	benign
rs13587	NP_054901	K	N	KN	possibly damaging
rs13617	NP_000891	Q	R	QR	possibly damaging

rs13622	NP_112557	S	F	SF	benign
rs13622	NP_003709	S	F	SF	benign
rs13660	NP_620125	G	R	GR	possibly damaging
rs13660	NP_997193	G	R	GR	possibly damaging
rs13663	NP_001061	M	V	MV	benign
rs13669	NP_004134	Q	H	QH	possibly damaging
rs13706	NP_001245	V	I	VI	benign
rs13721	NP_003991	R	W	RW	probably damaging
rs13747	XP_208356	L	P	LP	probably damaging
rs13767	NP_006618	D	N	DN	benign
rs13768	NP_733822	R	L	RL	benign
rs13768	NP_733821	R	L	RL	benign
rs13783	NP_115866	K	Q	KQ	benign
rs13787	NP_789842	K	N	KN	benign
rs13787	NP_789845	K	N	KN	benign
rs13787	NP_008834	K	N	KN	benign
rs13787	NP_789843	K	N	KN	benign
rs13805	NP_002083	A	T	AT	benign
rs13807	NP_001988	T	I	TI	benign
rs13815	NP_775738	G	A	GA	possibly damaging
rs13817	NP_079404	H	R	HR	benign
rs13846	NP_060388	Y	F	YF	benign
rs13856	NP_006187	D	E	DE	benign
rs13874	NP_775742	T	M	TM	benign
rs13883	NP_003734	S	Y	SY	possibly damaging
rs13883	NP_671756	S	Y	SY	possibly damaging
rs13883	NP_671766	S	Y	SY	possibly damaging
rs13894	NP_597998	R	C	RC	possibly damaging
rs13898	NP_001120	V	I	VI	benign
rs13899	NP_115503	T	N	TN	benign
rs13926	NP_057376	G	R	GR	benign
rs13928	NP_001120	K	E	KE	benign
rs13955	NP_078895	L	P	LP	probably damaging
rs13962	NP_002027	A	T	AT	benign
rs13963	NP_003269	S	G	SG	benign
rs13965	NP_068757	M	I	MI	probably damaging
rs13991	NP_006532	Q	H	QH	benign
rs14005	NP_001627	Q	R	QR	benign
rs14008	NP_002344	E	D	ED	benign
rs14009	NP_000983	P	Q	PQ	benign
rs14026	NP_689598	V	A	VA	benign
rs14079	NP_001302	C	F	CF	probably damaging
rs14092	NP_002427	E	Q	EQ	benign
rs14115	NP_037519	I	V	IV	benign
rs14120	NP_061884	K	M	KM	benign
rs14120	NP_996994	K	M	KM	benign

rs14120	NP_996999	K	M	KM	possibly damaging
rs14159	NP_006819	L	S	LS	benign
rs14222	NP_006401	A	P	AP	benign
rs14227	NP_003951	L	V	LV	benign
rs14251	NP_776189	I	L	IL	benign
rs14296	NP_004143	H	Y	HY	probably damaging
rs14329	NP_955400	I	T	IT	benign
rs14329	NP_056453	I	T	IT	benign
rs14367	NP_000603	K	N	KN	possibly damaging
rs14378	NP_115637	S	N	SN	benign
rs14421	NP_075567	A	V	AV	benign
rs14422	NP_079437	A	T	AT	benign
rs14429	NP_660144	L	Q	LQ	possibly damaging
rs14429	NP_660145	L	Q	LQ	possibly damaging
rs14429	NP_002748	L	Q	LQ	possibly damaging
rs14429	NP_660143	L	Q	LQ	possibly damaging
rs14452	NP_599026	R	S	RS	benign
rs14452	NP_599027	R	S	RS	benign
rs14452	NP_056441	R	S	RS	benign
rs14547	NP_003098	A	S	AS	benign
rs14628	NP_036458	V	L	VL	benign
rs14635	NP_982353	R	L	RL	possibly damaging
rs14635	NP_058637	R	L	RL	possibly damaging
rs14659	NP_005478	L	P	LP	possibly damaging
rs14665	NP_005604	A	S	AS	benign
rs14670	NP_056189	G	W	GW	possibly damaging
rs14704	NP_001719	K	N	KN	benign
rs14704	NP_940991	K	N	KN	possibly damaging
rs14714	NP_003323	Y	H	YH	possibly damaging
rs14714	NP_937758	Y	H	YH	possibly damaging
rs14777	NP_005908	L	P	LP	probably damaging
rs14812	NP_055135	E	A	EA	benign
rs14835	NP_857591	K	E	KE	benign
rs14835	NP_857592	K	E	KE	benign
rs14835	NP_057410	K	E	KE	benign
rs14835	NP_058647	K	E	KE	benign
rs14872	NP_291028	L	M	LM	benign
rs14926	NP_005608	K	E	KE	benign
rs14930	NP_006254	T	K	TK	benign
rs14969	NP_689896	T	K	TK	benign
rs14999	NP_005118	G	C	GC	probably damaging
rs15001	NP_061973	G	A	GA	benign
rs15013	NP_006414	V	E	VE	benign
rs15015	NP_877577	V	F	VF	possibly damaging
rs15033	NP_005987	A	V	AV	benign
rs15033	NP_057653	A	V	AV	benign

rs15063	NP_116071	H	Y	HY	possibly damaging
rs15085	NP_115936	E	K	EK	benign
rs15094	NP_001350	K	N	KN	possibly damaging
rs15097	NP_078899	N	S	NS	benign
rs15140	NP_002291	T	I	TI	benign
rs15146	XP_371107	Q	R	QR	possibly damaging
rs15148	XP_375375	T	I	TI	possibly damaging
rs15166	NP_005818	K	N	KN	benign
rs15184	XP_497558	F	I	FI	benign
rs15188	NP_002468	K	R	KR	benign
rs15208	NP_037541	S	P	SP	benign
rs15233	NP_005824	M	I	MI	possibly damaging
rs15251	NP_000347	A	V	AV	benign
rs15252	NP_000347	K	E	KE	benign
rs15253	NP_000347	T	K	TK	benign
rs15303	NP_001975	G	D	GD	benign
rs15341	NP_060707	K	R	KR	benign
rs15389	NP_006388	A	G	AG	benign
rs15396	NP_857594	K	N	KN	benign
rs15448	NP_006417	P	T	PT	benign
rs15495	NP_060937	E	D	ED	benign
rs15511	XP_048070	S	Y	SY	possibly damaging
rs15566	NP_005580	E	G	EG	possibly damaging
rs15594	NP_004724	Q	H	QH	possibly damaging
rs15611	NP_056295	R	L	RL	possibly damaging
rs15633	NP_002255	E	Q	EQ	possibly damaging
rs15648	NP_057212	M	T	MT	probably damaging
rs15660	NP_002255	P	T	PT	probably damaging
rs15700	NP_937868	R	K	RK	benign
rs15702	NP_056286	V	M	VM	benign
rs15769	NP_004069	C	F	CF	probably damaging
rs15772	NP_006405	A	G	AG	benign
rs15772	NP_892117	A	G	AG	benign
rs15783	NP_663625	T	I	TI	benign
rs15809	NP_000177	Q	E	QE	benign
rs15809	NP_002104	Q	E	QE	benign
rs15873	NP_085140	L	P	LP	possibly damaging
rs15896	NP_079413	V	F	VF	benign
rs15911	NP_004379	V	I	VI	benign
rs15917	XP_294473	P	L	PL	probably damaging
rs15922	NP_005634	T	R	TR	benign
rs15934	NP_116784	F	S	FS	possibly damaging
rs15938	NP_001004	G	C	GC	probably damaging
rs15943	XP_372199	Q	E	QE	benign
rs15960	NP_001892	H	Y	HY	benign
rs15967	NP_071888	P	T	PT	possibly damaging



rs15999	NP_000059	A	V	AV	benign
rs16019	NP_000059	E	A	EA	benign
rs16020	NP_000059	P	S	PS	benign
rs16022	NP_000059	E	D	ED	benign
rs16023	NP_000059	E	V	EV	possibly damaging
rs16024	NP_000059	E	K	EK	benign
rs16028	NP_000059	P	L	PL	probably damaging
rs16139	NP_000896	L	P	LP	possibly damaging
rs16522	XP_372668	Q	R	QR	benign
rs16941	NP_009230	E	G	EG	benign
rs16941	NP_009231	E	G	EG	benign
rs16941	NP_009232	E	G	EG	benign
rs16941	NP_009233	E	G	EG	benign
rs16941	NP_009228	E	G	EG	benign
rs16942	NP_009230	K	R	KR	benign
rs16942	NP_009231	K	R	KR	benign
rs16942	NP_009232	K	R	KR	benign
rs16942	NP_009233	K	R	KR	benign
rs16942	NP_009228	K	R	KR	benign
rs17456	NP_001995	I	V	IV	benign
rs17467	NP_954657	L	V	LV	benign
rs17467	NP_000215	L	V	LV	benign
rs17560	NP_001136	K	E	KE	benign
rs17561	NP_000566	A	S	AS	benign
rs17562	NP_000566	N	D	ND	possibly damaging
rs17563	NP_570911	A	V	AV	benign
rs17563	NP_570912	A	V	AV	benign
rs17563	NP_001193	A	V	AV	benign
rs17567	NP_001972	I	M	IM	benign
rs17571	NP_001900	A	V	AV	benign
rs17573	NP_680090	S	N	SN	benign
rs17573	NP_680091	S	N	SN	benign
rs17573	NP_680092	S	N	SN	benign
rs17573	NP_680093	S	N	SN	benign
rs17573	NP_001899	S	N	SN	benign
rs17580	NP_000286	E	V	EV	probably damaging
rs17585	NP_002930	P	Q	PQ	possibly damaging
rs17585	NP_976318	P	Q	PQ	possibly damaging
rs17585	NP_976322	P	Q	PQ	possibly damaging
rs17585	NP_976323	P	Q	PQ	possibly damaging
rs17585	NP_976321	P	Q	PQ	possibly damaging
rs17585	NP_976320	P	Q	PQ	possibly damaging
rs17585	NP_976317	P	Q	PQ	possibly damaging
rs17585	NP_976319	P	Q	PQ	possibly damaging
rs17592	NP_077320	A	G	AG	benign
rs17592	NP_775110	A	G	AG	benign

rs17592	NP_997629	A	G	AG	benign
rs17592	NP_997630	A	G	AG	benign
rs17592	NP_000061	A	G	AG	benign
rs17607	NP_001242	A	T	AT	benign
rs17608	NP_001819	A	V	AV	benign
rs17610	NP_001726	S	N	SN	benign
rs17611	NP_001726	V	I	VI	benign
rs17613	NP_000597	H	N	HN	probably damaging
rs17615	NP_001868	S	N	SN	benign
rs17621	NP_003640	H	Y	HY	benign
rs17621	NP_004023	H	Y	HY	possibly damaging
rs17622	NP_003640	Q	E	QE	benign
rs17622	NP_004023	Q	E	QE	benign
rs17623	NP_003640	L	R	LR	possibly damaging
rs17623	NP_004023	L	R	LR	possibly damaging
rs17624	NP_000099	L	V	LV	benign
rs17655	NP_000114	H	D	HD	benign
rs20319	NP_004645	P	S	PS	possibly damaging
rs20320	NP_004645	T	A	TA	benign
rs20361	NP_009293	F	L	FL	benign
rs20361	NP_006720	F	L	FL	benign
rs20541	NP_002179	Q	R	QR	benign
rs20551	NP_001420	I	V	IV	benign
rs20559	NP_002284	R	Q	RQ	benign
rs20571	NP_005172	V	I	VI	benign
rs25414	NP_000037	S	N	SN	benign
rs25414	NP_942002	S	N	SN	benign
rs25474	NP_006288	P	L	PL	probably damaging
rs25487	NP_006288	R	Q	RQ	benign
rs25489	NP_006288	R	H	RH	possibly damaging
rs25490	NP_006288	T	A	TA	benign
rs25491	NP_006288	P	S	PS	benign
rs25496	NP_006288	V	A	VA	possibly damaging
rs25640	NP_000405	R	H	RH	possibly damaging
rs25644	NP_002551	S	G	SG	benign
rs25647	NP_002078	G	A	GA	possibly damaging
rs25653	NP_001141	Q	R	QR	benign
rs25655	NP_001739	E	D	ED	benign
rs25680	NP_001233	A	T	AT	benign
rs25683	NP_005882	K	R	KR	benign
rs25688	NP_037522	R	K	RK	benign
rs25689	NP_037522	R	H	RH	possibly damaging
rs25692	NP_037522	P	S	PS	possibly damaging
rs25695	NP_037522	D	E	DE	benign
rs25789	XP_496746	R	H	RH	benign
rs25882	NP_000749	I	T	IT	benign

rs25901	NP_036466	T	S	TS	benign
rs26618	NP_057526	I	M	IM	benign
rs26653	NP_057526	P	R	PR	possibly damaging
rs26722	NP_057264	K	E	KE	benign
rs26740	NP_036466	R	Q	RQ	benign
rs26764	XP_370946	S	T	ST	benign
rs26839	NP_004415	H	R	HR	benign
rs26856	NP_872369	G	S	GS	benign
rs26857	NP_872369	I	V	IV	benign
rs27027	XP_209728	E	Q	EQ	benign
rs27044	NP_057526	E	Q	EQ	benign
rs27742	NP_803564	E	K	EK	benign
rs27742	NP_001045	E	K	EK	benign
rs27895	NP_057526	G	D	GD	benign
rs28265	NP_115580	D	H	DH	possibly damaging
rs28963	NP_776246	H	R	HR	probably damaging
rs29281	NP_002015	A	S	AS	benign
rs29372	NP_066187	N	S	NS	possibly damaging
rs29910	XP_376412	A	T	AT	benign
rs29911	XP_376412	M	I	MI	benign
rs30168	NP_001360	A	V	AV	benign
rs30187	NP_057526	R	K	RK	benign
rs30386	NP_942568	K	T	KT	benign
rs30386	NP_055858	K	T	KT	benign
rs30461	NP_742152	N	D	ND	benign
rs30489	NP_963964	G	R	GR	possibly damaging
rs30832	NP_000103	T	I	TI	possibly damaging
rs30842	NP_002071	G	V	GV	benign
rs31208	NP_570969	T	M	TM	benign
rs31244	XP_043493	D	N	DN	benign
rs31517	NP_002293	V	I	VI	benign
rs31655	NP_061337	A	T	AT	benign
rs31655	NP_061338	A	T	AT	benign
rs31655	NP_000434	A	T	AT	benign
rs31726	NP_073746	K	R	KR	benign
rs31728	NP_073746	A	P	AP	benign
rs31738	NP_037472	I	T	IT	benign
rs31849	NP_061760	K	R	KR	benign
rs31853	NP_061759	V	I	VI	benign
rs32854	NP_079262	A	D	AD	benign
rs32857	XP_293976	L	S	LS	possibly damaging
rs33204	NP_060738	V	I	VI	benign
rs33391	NP_000167	N	K	NK	possibly damaging
rs33555	NP_689837	L	F	LF	benign
rs34677	NP_055139	Q	H	QH	possibly damaging
rs34899	NP_055714	D	N	DN	benign

rs34966	NP_065847	H	Y	HY	possibly damaging
rs35195	NP_387513	T	M	TM	benign
rs35195	NP_001788	T	M	TM	possibly damaging
rs35213	NP_001788	S	A	SA	benign
rs35213	NP_387513	S	A	SA	benign
rs36259	NP_078828	A	T	AT	benign
rs36571	NP_115580	P	S	PS	benign
rs36657	NP_653287	Q	E	QE	benign
rs36686	NP_055071	H	R	HR	benign
rs37369	NP_114106	V	I	VI	benign
rs37370	NP_114106	S	N	SN	benign
rs37458	NP_777623	A	T	AT	benign
rs37458	NP_777628	A	T	AT	benign
rs37458	NP_777631	A	T	AT	benign
rs38794	XP_377955	L	M	LM	benign
rs40401	NP_000579	P	S	PS	benign
rs40470	NP_787069	L	F	LF	benign
rs40497	NP_714917	K	E	KE	benign
rs40986	NP_036291	P	L	PL	benign
rs41245	NP_001288	E	Q	EQ	benign
rs41469	NP_062545	R	H	RH	benign
rs41551	NP_997219	Q	H	QH	benign
rs41552	NP_997219	G	V	GV	probably damaging
rs42138	NP_954651	G	S	GS	possibly damaging
rs42139	NP_954651	M	I	MI	benign
rs42663	NP_149098	W	C	WC	probably damaging
rs42664	NP_149098	N	S	NS	benign
rs42766	NP_036466	G	V	GV	probably damaging
rs42942	NP_055118	T	S	TS	benign
rs44058	XP_293923	S	C	SC	benign
rs85276	NP_009135	I	T	IT	benign
rs86312	NP_000254	G	R	GR	possibly damaging
rs90951	NP_878910	C	R	CR	benign
rs90951	NP_006335	R	C	RC	benign
rs96489	XP_372347	Q	R	QR	benign
rs100803	NP_945322	A	V	AV	benign
rs100803	NP_056332	A	V	AV	benign
rs103612	NP_005076	P	S	PS	benign
rs106287	NP_008860	V	M	VM	benign
rs121966	NP_942150	W	R	WR	benign
rs122213	XP_497306	T	A	TA	benign
rs123509	NP_689606	C	R	CR	probably damaging
rs125555	NP_056723	P	A	PA	benign
rs125555	NP_056669	P	A	PA	benign
rs125555	NP_002375	P	A	PA	benign
rs125555	NP_056671	P	A	PA	possibly damaging

rs129415	NP_766638	R	G	RG	benign
rs130015	NP_004371	V	I	VI	benign
rs130060	NP_000854	F	C	FC	benign
rs130061	NP_000854	F	L	FL	benign
rs130063	NP_000854	I	V	IV	benign
rs130064	NP_000854	E	K	EK	possibly damaging
rs130065	NP_061925	R	G	RG	possibly damaging
rs130066	NP_061925	S	R	SR	benign
rs130067	NP_061925	E	D	ED	benign
rs130069	NP_061925	Q	R	QR	benign
rs130072	NP_061925	R	Q	RQ	benign
rs130074	NP_061925	Q	H	QH	possibly damaging
rs130075	NP_061925	R	Q	RQ	benign
rs130076	NP_061925	R	W	RW	possibly damaging
rs130079	NP_061925	G	C	GC	probably damaging
rs131779	NP_612442	H	R	HR	possibly damaging
rs132760	NP_663612	I	V	IV	benign
rs133072	NP_005288	D	N	DN	benign
rs133335	NP_689826	G	D	GD	possibly damaging
rs133885	NP_115997	G	E	GE	possibly damaging
rs135311	NP_598397	R	P	RP	possibly damaging
rs136175	NP_003652	M	I	MI	benign
rs136175	NP_663318	M	I	MI	benign
rs136175	NP_663319	M	I	MI	benign
rs136176	NP_003652	R	K	RK	benign
rs136176	NP_663318	R	K	RK	benign
rs136176	NP_663319	R	K	RK	benign
rs136467	NP_006596	I	V	IV	benign
rs136468	NP_006596	C	R	CR	probably damaging
rs136470	NP_006596	G	S	GS	benign
rs136472	NP_006596	S	T	ST	benign
rs136478	NP_006596	Y	C	YC	possibly damaging
rs136603	NP_683515	F	V	FV	benign
rs136730	NP_001987	R	Q	RQ	benign
rs136730	NP_006476	R	Q	RQ	possibly damaging
rs136730	NP_006477	R	Q	RQ	possibly damaging
rs136730	NP_006478	R	Q	RQ	possibly damaging
rs136853	NP_066919	I	V	IV	benign
rs137055	NP_055324	C	R	CR	probably damaging
rs137064	NP_733799	Q	R	QR	benign
rs137203	NP_066938	W	L	WL	probably damaging
rs137731	NP_073622	T	A	TA	benign
rs137731	NP_942153	T	A	TA	benign
rs137794	NP_073622	H	Y	HY	benign
rs137794	NP_942153	H	Y	HY	benign
rs138708	NP_056189	R	C	RC	possibly damaging

rs138951	NP_055955	R	W	RW	possibly damaging
rs138993	NP_766638	P	S	PS	probably damaging
rs139297	NP_861438	G	R	GR	possibly damaging
rs139298	NP_861438	K	E	KE	benign
rs139299	NP_861438	K	N	KN	benign
rs139300	NP_861438	E	K	EK	benign
rs139302	NP_861438	E	D	ED	benign
rs140054	NP_057510	R	W	RW	possibly damaging
rs140195	NP_000845	E	K	EK	benign
rs140431	NP_997357	R	G	RG	possibly damaging
rs140504	NP_067585	S	N	SN	benign
rs140504	NP_004318	S	N	SN	benign
rs140627	NP_000129	C	F	CF	probably damaging
rs140638	NP_000129	N	S	NS	possibly damaging
rs140693	NP_003916	E	K	EK	benign
rs144848	NP_000050	H	N	HN	benign
rs149836	NP_004247	G	A	GA	benign
rs150122	NP_055498	M	V	MV	possibly damaging
rs150481	NP_037447	Y	S	YS	benign
rs150481	NP_954869	Y	S	YS	benign
rs150481	NP_954870	Y	S	YS	benign
rs150482	NP_037447	L	P	LP	benign
rs150482	NP_954869	L	P	LP	benign
rs150482	NP_954870	L	P	LP	benign
rs150857	NP_037408	K	E	KE	benign
rs150989	NP_003544	T	A	TA	benign
rs151611	NP_005099	D	E	DE	benign
rs152451	NP_078951	Q	R	QR	benign
rs153477	NP_000396	I	V	IV	benign
rs153478	NP_000396	M	V	MV	benign
rs155733	NP_006169	T	M	TM	benign
rs156265	NP_001598	E	D	ED	benign
rs156631	NP_003697	S	P	SP	probably damaging
rs156697	NP_899062	N	D	ND	benign
rs156853	XP_057040	Q	H	QH	benign
rs156855	XP_057040	T	A	TA	benign
rs157024	XP_028522	I	M	IM	benign
rs157496	NP_835260	T	A	TA	benign
rs158551	NP_003648	V	A	VA	benign
rs160076	XP_293923	L	V	LV	benign
rs160277	NP_004376	D	Y	DY	benign
rs160278	NP_004376	F	Y	FY	benign
rs160632	NP_060813	R	G	RG	probably damaging
rs160838	XP_290867	A	V	AV	benign
rs161400	NP_004928	I	T	IT	benign
rs161704	NP_620586	S	N	SN	benign

rs161931	NP_689685	E	K	EK	benign
rs162036	NP_076915	K	R	KR	benign
rs162036	NP_002445	K	R	KR	benign
rs162832	NP_060730	P	L	PL	probably damaging
rs164075	NP_057664	H	N	HN	benign
rs164181	NP_872387	V	A	VA	benign
rs164365	NP_666018	I	M	IM	benign
rs164515	NP_057664	S	N	SN	benign
rs165815	NP_001661	R	Q	RQ	benign
rs165867	NP_000176	H	P	HP	probably damaging
rs165907	XP_496496	A	T	AT	benign
rs165907	XP_496500	A	T	AT	benign
rs166452	NP_005874	T	S	TS	benign
rs166453	NP_005874	A	V	AV	benign
rs167037	NP_000073	S	C	SC	possibly damaging
rs167437	NP_071940	G	S	GS	benign
rs167447	NP_000690	H	L	HL	probably damaging
rs167479	XP_290867	P	H	PH	probably damaging
rs168107	NP_055942	S	R	SR	benign
rs168192	NP_061720	P	T	PT	probably damaging
rs169068	NP_001044	P	L	PL	possibly damaging
rs169548	NP_000050	S	P	SP	benign
rs169758	NP_037447	G	E	GE	possibly damaging
rs169758	NP_954869	G	E	GE	possibly damaging
rs169758	NP_954870	G	E	GE	possibly damaging
rs170462	XP_294590	R	K	RK	benign
rs170646	XP_498015	G	E	GE	benign
rs170758	NP_061977	A	V	AV	benign
rs171114	NP_000907	A	G	AG	benign
rs171170	NP_000675	R	L	RL	possibly damaging
rs172298	NP_006188	N	D	ND	benign
rs173042	NP_689836	T	P	TP	benign
rs174264	NP_689741	L	P	LP	probably damaging
rs174477	NP_037533	Q	R	QR	benign
rs175080	NP_055196	P	L	PL	benign
rs175081	NP_055196	D	N	DN	benign
rs175218	NP_003678	V	I	VI	benign
rs176250	NP_005095	L	F	LF	benign
rs177386	XP_370765	G	R	GR	benign
rs177484	XP_377934	F	V	FV	benign
rs178412	NP_002305	F	Y	FY	possibly damaging
rs178614	XP_375869	D	Y	DY	benign
rs178614	XP_496391	Y	D	YD	benign
rs179008	NP_057646	Q	L	QL	possibly damaging
rs179472	NP_001711	S	T	ST	benign
rs179472	NP_861525	S	T	ST	benign

rs179489	NP_861463	G	R	GR	possibly damaging
rs179489	NP_000209	G	R	GR	possibly damaging
rs179489	NP_861462	R	G	RG	possibly damaging
rs180749	NP_114106	T	I	TI	benign
rs180897	NP_000675	A	T	AT	benign
rs181206	NP_663634	L	P	LP	benign
rs181984	XP_066058	G	R	GR	possibly damaging
rs182844	XP_371770	S	G	SG	benign
rs183360	NP_057394	A	S	AS	benign
rs183490	XP_371770	N	S	NS	benign
rs183854	NP_036559	D	N	DN	probably damaging
rs184437	XP_294590	N	S	NS	benign
rs184457	NP_982258	S	P	SP	possibly damaging
rs184496	XP_094074	D	N	DN	benign
rs185153	NP_705831	P	L	PL	probably damaging
rs185435	XP_291142	M	V	MV	benign
rs185819	NP_061978	H	R	HR	possibly damaging
rs187033	XP_372563	Q	E	QE	benign
rs187033	XP_372565	Q	E	QE	benign
rs187316	NP_065829	L	P	LP	possibly damaging
rs188096	NP_000443	A	S	AS	benign
rs188242	NP_031390	F	S	FS	probably damaging
rs188387	NP_066387	Q	H	QH	probably damaging
rs188703	NP_004376	R	H	RH	benign
rs189429	NP_000675	E	D	ED	benign
rs190325	NP_115582	L	V	LV	benign
rs190631	NP_463459	Q	H	QH	probably damaging
rs190631	NP_055090	Q	H	QH	probably damaging
rs190645	NP_067013	S	F	SF	benign
rs192026	NP_076937	S	T	ST	benign
rs192200	XP_375376	E	K	EK	benign
rs193192	NP_945327	H	P	HP	probably damaging
rs194134	NP_588612	P	S	PS	possibly damaging
rs194524	NP_694544	Q	R	QR	benign
rs194525	NP_694544	I	M	IM	benign
rs194685	NP_004794	T	I	TI	benign
rs194998	NP_817089	V	L	VL	benign
rs196380	NP_005099	Y	N	YN	benign
rs196586	NP_085139	N	S	NS	benign
rs196594	NP_085139	P	S	PS	benign
rs196864	NP_005373	T	P	TP	benign
rs197367	NP_061155	R	K	RK	benign
rs197412	NP_009135	I	T	IT	benign
rs197414	NP_009135	R	S	RS	benign
rs197922	NP_473363	R	K	RK	benign
rs197922	NP_004278	R	K	RK	benign



rs198400	NP_068503	G	E	GE	benign
rs198400	NP_068504	G	E	GE	benign
rs198400	NP_068505	G	E	GE	benign
rs198400	NP_001277	G	E	GE	possibly damaging
rs198977	NP_005542	R	W	RW	possibly damaging
rs199396	NP_002459	R	C	RC	probably damaging
rs199603	NP_061866	A	T	AT	benign
rs200454	NP_060668	T	S	TS	benign
rs200658	NP_055256	S	N	SN	benign
rs200916	NP_066383	A	G	AG	benign
rs200917	NP_066383	D	G	DG	benign
rs202084	NP_115492	A	S	AS	benign
rs202210	NP_031363	R	G	RG	possibly damaging
rs202210	NP_005097	R	G	RG	possibly damaging
rs202444	NP_065757	N	T	NT	benign
rs202676	NP_004467	Y	H	YH	possibly damaging
rs203462	NP_009133	I	V	IV	benign
rs203710	NP_006496	M	I	MI	benign
rs203870	XP_498061	I	N	IN	benign
rs204710	XP_037759	D	G	DG	possibly damaging
rs204718	XP_037759	V	M	VM	possibly damaging
rs204781	NP_005527	I	V	IV	benign
rs204896	NP_061978	R	H	RH	possibly damaging
rs204900	NP_061978	S	A	SA	benign
rs205498	NP_005073	L	P	LP	benign
rs208294	NP_002553	Y	H	YH	benign
rs208696	NP_056093	Q	R	QR	benign
rs208753	NP_006188	M	V	MV	possibly damaging
rs209569	XP_372031	H	R	HR	benign
rs209720	NP_055685	M	V	MV	possibly damaging
rs209729	NP_055685	C	Y	CY	probably damaging
rs210280	NP_008886	R	C	RC	probably damaging
rs210585	NP_066386	K	R	KR	benign
rs210586	NP_066386	I	V	IV	benign
rs210968	NP_002935	N	K	NK	possibly damaging
rs212146	NP_037447	E	K	EK	benign
rs212146	NP_954869	E	K	EK	benign
rs212146	NP_954870	E	K	EK	benign
rs212989	XP_117174	V	M	VM	benign
rs212991	XP_117174	I	M	IM	benign
rs213227	NP_077819	H	Q	HQ	possibly damaging
rs213246	XP_375075	S	F	SF	benign
rs213544	XP_087225	A	D	AD	possibly damaging
rs213950	NP_000483	M	V	MV	benign
rs216195	NP_060045	K	Q	KQ	benign
rs216321	NP_000543	R	Q	RQ	benign

rs216462	XP_496202	H	R	HR	possibly damaging
rs217086	NP_001805	T	I	TI	benign
rs217180	NP_112583	A	T	AT	benign
rs217435	NP_037521	E	K	EK	benign
rs218966	XP_376578	K	R	KR	benign
rs219567	XP_497515	V	I	VI	benign
rs220159	NP_775839	D	N	DN	benign
rs220379	NP_005732	C	S	CS	benign
rs220461	NP_114171	T	I	TI	benign
rs220462	NP_114171	D	G	DG	benign
rs220479	NP_002199	V	I	VI	benign
rs221057	NP_694945	E	Q	EQ	benign
rs221058	NP_694945	G	R	GR	benign
rs221214	XP_373223	H	R	HR	benign
rs222581	NP_005594	T	A	TA	benign
rs224331	NP_000548	S	A	SA	benign
rs224496	NP_037408	E	D	ED	benign
rs225014	NP_054644	T	A	TA	benign
rs225014	NP_000784	T	A	TA	benign
rs226405	NP_000005	D	N	DN	benign
rs226794	NP_008969	P	L	PL	benign
rs226891	NP_055526	M	I	MI	benign
rs226959	NP_899229	H	Q	HQ	benign
rs227368	NP_005899	V	I	VI	benign
rs227584	NP_076937	T	P	TP	benign
rs227787	NP_036505	E	K	EK	benign
rs227789	NP_036505	I	T	IT	benign
rs228104	NP_061837	I	V	IV	benign
rs228406	NP_000100	G	D	GD	benign
rs228406	NP_003997	G	D	GD	benign
rs228406	NP_003998	G	D	GD	benign
rs228406	NP_004000	G	D	GD	benign
rs228406	NP_004001	G	D	GD	benign
rs228648	NP_068835	T	M	TM	benign
rs228696	NP_058515	L	P	LP	probably damaging
rs228697	NP_058515	P	A	PA	possibly damaging
rs228753	NP_689557	E	K	EK	benign
rs228757	NP_631944	D	E	DE	benign
rs228757	NP_005465	E	D	ED	benign
rs228942	NP_000869	D	E	DE	benign
rs229150	NP_057190	K	R	KR	benign
rs229526	NP_114116	P	R	PR	benign
rs229526	NP_872292	P	R	PR	benign
rs229527	NP_114116	G	V	GV	benign
rs229527	NP_872292	G	V	GV	benign
rs229568	NP_001042	S	T	ST	benign

rs230321	NP_071403	L	R	LR	possibly damaging
rs230898	NP_114104	G	A	GA	benign
rs231267	XP_208319	F	V	FV	benign
rs231677	XP_497524	R	K	RK	benign
rs231678	XP_497524	S	A	SA	benign
rs231696	NP_003695	R	C	RC	possibly damaging
rs231775	NP_005205	T	A	TA	benign
rs232518	NP_004531	L	P	LP	probably damaging
rs232729	NP_742003	L	P	LP	probably damaging
rs232777	XP_055481	E	K	EK	benign
rs233223	NP_005916	S	P	SP	possibly damaging
rs233240	NP_941966	N	D	ND	benign
rs233252	NP_941969	Y	C	YC	probably damaging
rs235035	NP_004767	D	N	DN	benign
rs235330	NP_000202	H	Q	HQ	possibly damaging
rs235636	NP_689551	S	G	SG	benign
rs235637	NP_689551	V	L	VL	benign
rs235638	NP_689551	T	S	TS	benign
rs235650	NP_015556	G	R	GR	benign
rs235768	NP_001191	R	S	RS	probably damaging
rs235836	XP_047025	A	T	AT	benign
rs235842	NP_060353	R	H	RH	possibly damaging
rs236150	NP_001810	K	N	KN	benign
rs236151	NP_001810	A	T	AT	possibly damaging
rs236152	NP_001810	A	G	AG	benign
rs236565	XP_497555	M	T	MT	probably damaging
rs236632	NP_942150	C	S	CS	probably damaging
rs236652	NP_115534	T	S	TS	benign
rs236652	NP_663620	T	S	TS	benign
rs236652	NP_684281	T	S	TS	benign
rs236661	XP_496895	A	T	AT	benign
rs236661	XP_290401	T	A	TA	benign
rs236666	XP_290401	P	T	PT	probably damaging
rs236666	XP_496895	P	T	PT	probably damaging
rs236812	NP_113644	V	A	VA	benign
rs236813	NP_113644	Q	E	QE	benign
rs237227	XP_497552	H	R	HR	benign
rs237422	NP_689717	A	V	AV	benign
rs237831	NP_060850	A	T	AT	benign
rs237901	NP_000907	T	M	TM	probably damaging
rs237903	NP_000907	A	V	AV	benign
rs238209	NP_066363	T	I	TI	possibly damaging
rs238221	NP_066363	Q	H	QH	benign
rs238234	NP_055914	A	P	AP	benign
rs238238	NP_443739	N	S	NS	benign
rs238238	NP_001967	N	S	NS	benign

rs238239	NP_443739	A	V	AV	benign
rs238239	NP_001967	A	V	AV	benign
rs238519	NP_055585	G	A	GA	possibly damaging
rs238520	NP_055585	Q	H	QH	possibly damaging
rs238521	NP_055585	G	V	GV	probably damaging
rs238639	NP_851421	S	N	SN	benign
rs238639	NP_851422	S	N	SN	benign
rs238639	NP_055818	S	N	SN	benign
rs238639	XP_496064	S	N	SN	benign
rs238740	NP_000675	D	E	DE	benign
rs238741	NP_000675	R	S	RS	possibly damaging
rs239259	XP_495880	M	I	MI	benign
rs239798	XP_294139	K	T	KT	benign
rs239942	XP_292765	G	S	GS	benign
rs240033	NP_004794	P	R	PR	probably damaging
rs240736	NP_542376	I	T	IT	benign
rs240736	NP_004361	I	T	IT	benign
rs240768	NP_006819	Y	C	YC	probably damaging
rs240780	NP_006819	S	C	SC	probably damaging
rs241419	NP_683756	V	I	VI	benign
rs241419	NP_002791	V	I	VI	benign
rs241447	NP_000535	A	T	AT	benign
rs241571	NP_000287	T	K	TK	benign
rs241572	NP_000287	R	P	RP	benign
rs242017	NP_116069	A	V	AV	benign
rs242018	NP_116069	E	K	EK	benign
rs242056	NP_061324	G	R	GR	possibly damaging
rs242296	XP_376869	R	T	RT	probably damaging
rs242944	NP_787078	H	R	HR	probably damaging
rs243383	NP_005474	A	S	AS	benign
rs243829	NP_060309	Q	H	QH	benign
rs244903	NP_002878	V	I	VI	benign
rs246074	NP_061721	L	V	LV	benign
rs246074	NP_114088	L	V	LV	benign
rs246669	NP_061761	T	A	TA	benign
rs246679	NP_037472	F	L	FL	benign
rs246703	NP_061762	H	Q	HQ	benign
rs246704	NP_061762	L	P	LP	benign
rs246707	NP_061762	V	A	VA	possibly damaging
rs247818	XP_375376	M	L	ML	benign
rs247897	XP_375376	M	L	ML	possibly damaging
rs249038	NP_055548	G	S	GS	possibly damaging
rs250430	NP_006042	R	C	RC	possibly damaging
rs250430	NP_573418	R	C	RC	possibly damaging
rs250430	NP_573420	R	C	RC	possibly damaging
rs250430	NP_573419	R	C	RC	possibly damaging

rs250563	NP_000327	F	L	FL	probably damaging
rs251353	NP_054724	S	R	SR	benign
rs251353	NP_114063	S	R	SR	benign
rs251354	NP_054724	L	V	LV	benign
rs251354	NP_114063	L	V	LV	benign
rs251355	NP_054724	G	R	GR	benign
rs251355	NP_114063	G	R	GR	benign
rs251362	NP_114065	S	R	SR	benign
rs251362	NP_114066	S	R	SR	benign
rs251362	NP_061724	S	R	SR	benign
rs251364	NP_114065	V	G	VG	benign
rs251364	NP_061724	V	G	VG	benign
rs251513	XP_377896	R	Q	RQ	benign
rs251514	XP_377896	S	R	SR	possibly damaging
rs251732	NP_003214	Q	H	QH	benign
rs252176	XP_372473	V	M	VM	benign
rs254460	NP_976042	G	S	GS	benign
rs254460	NP_976041	G	S	GS	benign
rs255051	NP_071750	R	P	RP	probably damaging
rs257878	XP_496134	W	R	WR	probably damaging
rs259028	NP_055548	T	I	TI	possibly damaging
rs259290	NP_997274	S	A	SA	benign
rs259358	NP_056300	A	V	AV	benign
rs262496	XP_371496	M	V	MV	probably damaging
rs262993	NP_060493	V	I	VI	benign
rs264731	XP_370713	G	S	GS	benign
rs265277	NP_005874	S	A	SA	benign
rs265282	XP_059051	G	R	GR	possibly damaging
rs265771	NP_055276	A	S	AS	benign
rs266472	NP_005725	V	I	VI	benign
rs266788	XP_375308	N	I	NI	possibly damaging
rs266789	XP_375308	R	H	RH	benign
rs267561	NP_002198	E	G	EG	benign
rs267733	NP_003559	G	D	GD	possibly damaging
rs267738	NP_859530	E	A	EA	possibly damaging
rs267745	XP_043739	E	D	ED	benign
rs267746	XP_043739	K	Q	KQ	benign
rs268671	NP_870998	V	A	VA	benign
rs268673	NP_870998	I	M	IM	benign
rs268674	NP_870998	R	G	RG	benign
rs268687	NP_037508	A	T	AT	benign
rs269243	XP_371960	P	H	PH	probably damaging
rs269757	XP_375308	T	N	TN	benign
rs269868	NP_054799	S	L	SL	benign
rs270495	NP_060238	Q	P	QP	possibly damaging
rs270771	NP_077293	A	V	AV	benign

rs270790	NP_703144	V	I	VI	benign
rs272128	NP_997247	P	T	PT	possibly damaging
rs272893	NP_003050	I	T	IT	benign
rs273687	NP_055256	N	K	NK	benign
rs273688	NP_055256	A	D	AD	benign
rs273690	NP_055256	V	A	VA	benign
rs276921	NP_077741	R	W	RW	probably damaging
rs276921	NP_001932	R	W	RW	probably damaging
rs276937	NP_077741	S	T	ST	benign
rs276937	NP_001932	S	T	ST	benign
rs276938	NP_077741	R	K	RK	benign
rs276938	NP_001932	R	K	RK	benign
rs277995	NP_071415	G	A	GA	probably damaging
rs278981	NP_061900	V	M	VM	benign
rs279549	NP_703190	R	Q	RQ	benign
rs279549	NP_703191	R	Q	RQ	benign
rs279549	NP_116121	R	Q	RQ	benign
rs279552	NP_056328	V	M	VM	benign
rs279601	NP_997234	E	Q	EQ	benign
rs280528	NP_008996	G	E	GE	benign
rs282009	XP_371267	I	V	IV	benign
rs282129	NP_002034	T	M	TM	possibly damaging
rs282414	XP_371755	S	P	SP	benign
rs283526	NP_036200	P	L	PL	possibly damaging
rs283816	NP_006105	F	L	FL	possibly damaging
rs284246	XP_088797	K	R	KR	benign
rs284662	NP_940942	S	G	SG	benign
rs284797	NP_000664	R	H	RH	benign
rs284859	NP_060257	A	S	AS	benign
rs284860	NP_060257	P	S	PS	benign
rs285227	NP_775901	H	R	HR	possibly damaging
rs285501	XP_496145	R	W	RW	possibly damaging
rs285584	NP_037509	G	S	GS	possibly damaging
rs288326	NP_001454	R	W	RW	probably damaging
rs288334	NP_061854	H	Q	HQ	benign
rs289723	NP_115582	Q	K	QK	benign
rs291102	NP_002635	A	V	AV	benign
rs291466	NP_932164	M	T	MT	benign
rs291466	NP_055177	M	T	MT	benign
rs291728	NP_443165	K	Q	KQ	benign
rs291915	XP_496435	K	R	KR	benign
rs291915	XP_496461	K	R	KR	benign
rs292501	NP_060765	L	F	LF	possibly damaging
rs292502	NP_060765	A	V	AV	benign
rs292592	NP_054868	P	L	PL	benign
rs292680	XP_374653	E	Q	EQ	benign

rs293813	NP_777568	M	T	MT	possibly damaging
rs293833	XP_093644	Q	R	QR	benign
rs293979	NP_663625	S	W	SW	benign
rs295330	XP_374191	V	G	VG	possibly damaging
rs295331	XP_374191	L	R	LR	benign
rs295761	XP_496034	V	A	VA	benign
rs296520	NP_060735	C	R	CR	probably damaging
rs297054	XP_166877	S	A	SA	benign
rs297055	XP_166877	L	P	LP	possibly damaging
rs297081	XP_166879	N	D	ND	benign
rs297118	XP_372386	C	Y	CY	possibly damaging
rs298109	NP_004684	G	R	GR	benign
rs299284	NP_036617	R	C	RC	benign
rs299284	NP_036616	R	C	RC	benign
rs299290	NP_036617	V	A	VA	benign
rs299290	NP_036616	V	A	VA	benign
rs299295	NP_036617	A	V	AV	benign
rs299295	NP_036616	A	V	AV	benign
rs299671	XP_375150	R	H	RH	possibly damaging
rs300169	NP_872431	I	T	IT	possibly damaging
rs300175	NP_872431	N	S	NS	benign
rs302453	NP_604393	Q	L	QL	possibly damaging
rs303819	XP_377265	T	P	TP	possibly damaging
rs303821	XP_377265	H	R	HR	benign
rs305974	NP_000765	D	N	DN	benign
rs306197	NP_065829	L	P	LP	possibly damaging
rs306547	NP_073616	I	V	IV	benign
rs306548	NP_073616	R	Q	RQ	benign
rs307377	XP_371210	C	R	CR	probably damaging
rs307658	NP_060919	N	S	NS	benign
rs307658	NP_065918	N	S	NS	benign
rs307692	NP_060919	A	V	AV	benign
rs307692	NP_065918	A	V	AV	benign
rs307761	XP_088315	S	N	SN	benign
rs307771	XP_088315	K	E	KE	benign
rs307772	XP_088315	M	T	MT	benign
rs307821	NP_891555	R	L	RL	benign
rs307826	NP_002011	T	A	TA	benign
rs307826	NP_891555	T	A	TA	benign
rs308925	XP_496170	R	H	RH	possibly damaging
rs309195	XP_028253	A	G	AG	benign
rs309369	NP_689831	E	D	ED	benign
rs309370	NP_689831	R	Q	RQ	benign
rs309559	NP_004376	K	R	KR	benign
rs310631	NP_208384	V	L	VL	benign
rs310632	NP_208384	H	R	HR	benign

rs310654	NP_543013	V	L	VL	benign
rs310655	NP_543013	A	T	AT	benign
rs310657	NP_543013	V	L	VL	benign
rs310680	NP_002059	C	Y	CY	probably damaging
rs310791	NP_976328	L	F	LF	benign
rs310831	NP_976328	H	Q	HQ	benign
rs311685	NP_061135	R	Q	RQ	benign
rs311686	NP_061135	E	K	EK	benign
rs312966	XP_371480	M	V	MV	benign
rs313549	NP_060793	P	S	PS	benign
rs314665	NP_057541	A	V	AV	benign
rs315675	XP_376310	L	H	LH	possibly damaging
rs316019	NP_694861	A	S	AS	benign
rs316019	NP_003049	A	S	AS	benign
rs317139	NP_058627	I	M	IM	benign
rs317926	NP_787067	D	G	DG	possibly damaging
rs320821	XP_375869	A	S	AS	benign
rs320821	XP_496391	S	A	SA	benign
rs321612	XP_496207	K	E	KE	benign
rs321613	XP_496207	P	S	PS	benign
rs321776	NP_078945	V	M	VM	benign
rs321937	NP_775801	P	R	PR	possibly damaging
rs322937	NP_659505	R	G	RG	benign
rs322965	NP_659505	I	V	IV	benign
rs323343	NP_112561	R	K	RK	benign
rs323344	NP_112561	V	L	VL	benign
rs323562	NP_115976	I	V	IV	benign
rs323844	NP_037387	C	G	CG	probably damaging
rs323870	NP_005476	Q	R	QR	benign
rs323872	NP_127503	G	S	GS	benign
rs323872	NP_065151	G	S	GS	benign
rs323872	NP_127502	G	S	GS	benign
rs324109	NP_115799	S	N	SN	benign
rs324136	NP_065796	V	I	VI	benign
rs324146	NP_872345	L	P	LP	probably damaging
rs324420	NP_001432	P	T	PT	possibly damaging
rs324981	NP_997056	N	I	NI	benign
rs324981	NP_997055	N	I	NI	benign
rs325465	NP_997056	S	G	SG	benign
rs325465	NP_997055	S	G	SG	benign
rs325609	XP_062263	T	A	TA	benign
rs325706	XP_290552	E	V	EV	possibly damaging
rs325864	NP_775760	I	V	IV	benign
rs326146	NP_065433	V	I	VI	benign
rs326181	XP_376372	P	S	PS	possibly damaging
rs327463	XP_496002	H	R	HR	possibly damaging



rs328694	NP_877438	P	S	PS	possibly damaging
rs329003	NP_005125	I	V	IV	benign
rs329709	NP_150630	R	Q	RQ	benign
rs329709	NP_942596	R	Q	RQ	benign
rs329940	NP_060770	T	M	TM	benign
rs329942	XP_375639	M	V	MV	probably damaging
rs329964	XP_496321	K	N	KN	benign
rs329965	XP_496321	D	N	DN	benign
rs330150	NP_060009	I	M	IM	benign
rs330261	NP_079117	T	A	TA	benign
rs330877	NP_001965	A	T	AT	benign
rs330880	NP_001965	S	R	SR	benign
rs331312	NP_000100	E	D	ED	benign
rs331312	NP_003997	E	D	ED	benign
rs331312	NP_003998	E	D	ED	benign
rs331312	NP_004000	E	D	ED	benign
rs331312	NP_004002	E	D	ED	benign
rs331312	NP_004003	E	D	ED	benign
rs331312	NP_004001	E	D	ED	benign
rs331510	XP_372347	R	W	RW	probably damaging
rs331537	XP_061676	R	H	RH	probably damaging
rs333550	NP_115821	R	H	RH	benign
rs333971	NP_757349	S	F	SF	benign
rs333971	NP_757350	S	F	SF	possibly damaging
rs333971	NP_757351	S	F	SF	possibly damaging
rs334773	NP_886552	L	P	LP	possibly damaging
rs336552	XP_208300	K	R	KR	benign
rs336873	XP_498321	I	L	IL	benign
rs336874	XP_498321	D	N	DN	benign
rs337277	NP_775758	V	M	VM	benign
rs337382	NP_061930	P	S	PS	possibly damaging
rs337820	XP_372941	S	P	SP	benign
rs339041	NP_001699	R	W	RW	probably damaging
rs339445	NP_001360	H	Q	HQ	possibly damaging
rs340138	XP_290854	Q	R	QR	benign
rs340151	XP_293599	S	C	SC	probably damaging
rs340167	NP_078892	S	G	SG	benign
rs341047	NP_002590	T	I	TI	benign
rs343320	NP_066928	H	Y	HY	probably damaging
rs343376	XP_378181	V	A	VA	benign
rs344140	NP_065910	A	G	AG	benign
rs344141	NP_065910	A	P	AP	possibly damaging
rs344560	NP_742011	E	K	EK	benign
rs344560	NP_003798	K	E	KE	benign
rs345512	NP_065926	I	L	IL	benign
rs345512	NP_996672	I	L	IL	benign

rs345513	NP_065926	D	G	DG	possibly damaging
rs345513	NP_996672	D	G	DG	possibly damaging
rs346821	NP_060456	V	A	VA	benign
rs346822	NP_060456	R	Q	RQ	benign
rs347877	NP_851421	V	I	VI	benign
rs347877	NP_851422	V	I	VI	benign
rs347877	NP_055818	V	I	VI	benign
rs347877	XP_496064	V	I	VI	benign
rs347879	NP_851421	R	Q	RQ	benign
rs347879	NP_851422	R	Q	RQ	benign
rs347879	NP_055818	R	Q	RQ	benign
rs347879	XP_496064	R	Q	RQ	benign
rs347880	NP_851421	K	N	KN	benign
rs347880	NP_851422	K	N	KN	benign
rs347880	NP_055818	K	N	KN	benign
rs347880	XP_496064	K	N	KN	benign
rs349053	NP_872379	S	N	SN	benign
rs349660	XP_372563	Q	E	QE	benign
rs349660	XP_372565	Q	E	QE	benign
rs350132	NP_115940	H	L	HL	probably damaging
rs351111	NP_002768	I	V	IV	benign
rs351260	NP_055588	T	A	TA	benign
rs351371	NP_004176	V	M	VM	benign
rs351371	NP_078613	V	M	VM	benign
rs351733	NP_776191	D	E	DE	benign
rs351855	NP_998812	G	R	GR	possibly damaging
rs351993	NP_079164	P	S	PS	possibly damaging
rs351994	NP_079164	T	A	TA	benign
rs352493	NP_057623	S	N	SN	benign
rs353163	NP_872412	R	Q	RQ	benign
rs353693	XP_114000	S	A	SA	benign
rs354478	NP_079199	V	M	VM	benign
rs354479	NP_079199	L	S	LS	benign
rs356356	XP_497056	D	G	DG	possibly damaging
rs356357	XP_497056	D	G	DG	possibly damaging
rs357373	XP_374655	R	K	RK	benign
rs357564	NP_000255	L	P	LP	benign
rs358733	NP_775928	S	N	SN	benign
rs360057	NP_066277	D	A	DA	benign
rs361499	NP_002299	E	G	EG	possibly damaging
rs361499	NP_033665	E	G	EG	probably damaging
rs361566	NP_699165	P	S	PS	possibly damaging
rs361566	NP_878315	P	S	PS	possibly damaging
rs361580	NP_542778	Y	S	YS	benign
rs361666	NP_542778	R	S	RS	benign
rs361762	NP_542778	F	L	FL	benign

rs361863	XP_376008	S	G	SG	benign
rs361959	NP_542778	K	N	KN	benign
rs362003	NP_542778	N	D	ND	benign
rs362011	NP_542778	N	S	NS	benign
rs362090	XP_376008	P	S	PS	benign
rs362124	NP_542778	G	A	GA	benign
rs362132	NP_542778	N	S	NS	benign
rs362691	NP_005036	L	V	LV	benign
rs362691	NP_774959	L	V	LV	benign
rs362800	NP_005036	L	V	LV	benign
rs362800	NP_774959	L	V	LV	benign
rs362936	NP_000829	G	E	GE	benign
rs363193	NP_775887	L	I	LI	benign
rs363212	NP_003896	S	F	SF	possibly damaging
rs363294	NP_776152	R	Q	RQ	benign
rs363295	NP_776152	H	Q	HQ	possibly damaging
rs363315	NP_862823	S	P	SP	benign
rs363359	NP_862823	A	G	AG	benign
rs363360	NP_862823	A	V	AV	benign
rs363494	NP_000821	I	V	IV	benign
rs363494	NP_783300	I	V	IV	benign
rs363503	NP_000821	A	V	AV	benign
rs363504	NP_000821	L	S	LS	benign
rs363747	NP_079197	I	V	IV	benign
rs363748	NP_079197	Q	H	QH	benign
rs363751	NP_079197	E	A	EA	benign
rs363766	NP_079197	P	S	PS	benign
rs363774	NP_079197	M	L	ML	benign
rs363775	NP_079197	M	V	MV	benign
rs363802	NP_000129	V	I	VI	benign
rs363810	NP_000129	C	S	CS	probably damaging
rs363811	NP_000129	G	R	GR	probably damaging
rs363831	NP_000129	D	E	DE	benign
rs363835	NP_000129	P	S	PS	probably damaging
rs363850	NP_000129	H	Q	HQ	probably damaging
rs363852	NP_000129	C	R	CR	probably damaging
rs363853	NP_000129	C	R	CR	probably damaging
rs363926	NP_061876	T	A	TA	benign
rs364101	NP_054724	K	R	KR	benign
rs364101	NP_114063	K	R	KR	benign
rs364111	NP_443116	Q	R	QR	benign
rs364111	XP_375634	R	Q	RQ	benign
rs364146	XP_371430	S	F	SF	possibly damaging
rs364427	NP_703146	F	L	FL	benign
rs364435	NP_703146	L	V	LV	benign
rs364444	NP_703146	T	S	TS	benign

rs364637	NP_000141	Q	K	QK	benign
rs364891	NP_055561	T	A	TA	benign
rs364897	NP_000148	N	S	NS	benign
rs365331	NP_031361	D	E	DE	benign
rs365331	NP_031363	D	E	DE	benign
rs365331	NP_031364	D	E	DE	benign
rs365331	NP_031362	D	E	DE	benign
rs365745	NP_037491	T	S	TS	benign
rs365915	XP_497031	D	N	DN	benign
rs365915	XP_372092	N	D	ND	benign
rs365990	NP_002462	A	V	AV	benign
rs366111	NP_037491	R	G	RG	benign
rs366439	NP_003231	S	L	SL	benign
rs366793	NP_060730	I	T	IT	possibly damaging
rs366837	NP_542790	T	A	TA	benign
rs367923	NP_037387	Q	P	QP	possibly damaging
rs368060	NP_000148	A	P	AP	probably damaging
rs368844	NP_002146	R	Q	RQ	benign
rs368865	XP_085028	M	V	MV	benign
rs369636	NP_054724	K	Q	KQ	benign
rs369636	NP_114063	K	Q	KQ	benign
rs369639	NP_054724	K	T	KT	benign
rs369639	NP_114063	K	T	KT	benign
rs369998	NP_991111	T	I	TI	possibly damaging
rs370094	NP_001965	A	V	AV	benign
rs370289	XP_497031	L	P	LP	benign
rs370289	XP_372092	P	L	PL	possibly damaging
rs370429	NP_006188	T	I	TI	benign
rs370465	NP_003725	N	D	ND	benign
rs370551	XP_292832	T	A	TA	benign
rs370752	NP_998762	T	M	TM	benign
rs371404	XP_375569	S	R	SR	benign
rs371513	NP_689825	G	R	GR	possibly damaging
rs371523	NP_002847	A	P	AP	benign
rs371715	NP_037456	P	H	PH	benign
rs371715	NP_659508	P	H	PH	benign
rs371749	NP_001143	R	L	RL	benign
rs372725	NP_000140	N	S	NS	benign
rs373032	NP_005865	D	E	DE	benign
rs373381	NP_000140	P	S	PS	benign
rs373381	NP_002025	S	P	SP	benign
rs373496	NP_001183	N	S	NS	benign
rs373533	NP_001965	K	Q	KQ	benign
rs373554	NP_060730	K	T	KT	probably damaging
rs373572	NP_064550	Q	R	QR	benign
rs373854	NP_006854	L	P	LP	benign

rs374045	NP_775814	H	R	HR	benign
rs374230	XP_375187	P	L	PL	possibly damaging
rs375436	NP_059991	A	D	AD	benign
rs376270	NP_001288	N	K	NK	possibly damaging
rs376618	NP_075252	P	L	PL	benign
rs376618	NP_998812	P	L	PL	benign
rs377408	NP_859016	T	A	TA	benign
rs377840	NP_443116	L	V	LV	benign
rs377860	NP_000029	K	Q	KQ	benign
rs378098	NP_872599	P	S	PS	possibly damaging
rs378127	XP_497481	E	K	EK	benign
rs378483	NP_543013	P	L	PL	benign
rs379147	NP_003544	F	C	FC	probably damaging
rs379370	NP_006675	S	P	SP	benign
rs379707	NP_955367	V	F	VF	benign
rs379707	NP_001456	V	F	VF	benign
rs379856	NP_003544	S	P	SP	benign
rs380585	NP_941967	F	C	FC	benign
rs380736	NP_079199	L	I	LI	benign
rs381143	NP_742017	L	P	LP	probably damaging
rs381418	NP_000148	N	K	NK	benign
rs381427	NP_000148	V	G	VG	possibly damaging
rs381484	NP_037411	M	I	MI	possibly damaging
rs381737	NP_000148	F	I	FI	benign
rs382212	XP_374318	R	G	RG	possibly damaging
rs382524	NP_000164	A	S	AS	benign
rs382627	NP_067674	L	P	LP	benign
rs382771	NP_005295	Q	R	QR	benign
rs382771	NP_005296	R	Q	RQ	benign
rs382789	NP_954648	E	K	EK	benign
rs382789	NP_115499	E	K	EK	benign
rs382789	NP_954649	E	K	EK	benign
rs383038	XP_292832	F	L	FL	benign
rs383369	NP_005865	H	R	HR	benign
rs384081	NP_061759	L	P	LP	benign
rs384403	XP_496496	G	R	GR	possibly damaging
rs384403	XP_496500	R	G	RG	possibly damaging
rs384487	NP_000080	S	P	SP	benign
rs386056	NP_005865	V	M	VM	benign
rs386269	XP_496050	Q	H	QH	benign
rs386598	NP_057294	A	D	AD	benign
rs386820	NP_733793	Q	H	QH	benign
rs386820	NP_004832	Q	H	QH	possibly damaging
rs387416	XP_371430	Q	R	QR	benign
rs388218	NP_002146	S	I	SI	possibly damaging
rs388685	NP_003416	P	R	PR	benign

rs388703	XP_496034	A	T	AT	benign
rs388706	NP_003416	T	A	TA	benign
rs388862	NP_002104	Q	E	QE	benign
rs389088	NP_037411	M	I	MI	benign
rs389319	NP_060738	G	D	GD	possibly damaging
rs389624	NP_659479	D	A	DA	benign
rs390427	XP_372343	F	S	FS	benign
rs390427	XP_114987	S	F	SF	benign
rs390659	NP_000313	E	Q	EQ	possibly damaging
rs391026	XP_498195	M	I	MI	possibly damaging
rs391125	NP_002146	T	A	TA	benign
rs391326	NP_067628	P	T	PT	benign
rs391326	NP_036258	T	P	TP	benign
rs391326	NP_078809	T	P	TP	possibly damaging
rs391768	NP_057066	R	Q	RQ	benign
rs392609	NP_000080	L	F	LF	benign
rs392610	NP_001002029	S	Y	SY	benign
rs392610	NP_000583	Y	S	YS	benign
rs392713	XP_374318	Q	R	QR	benign
rs392824	XP_499223	R	G	RG	possibly damaging
rs393014	XP_370838	A	E	AE	possibly damaging
rs393014	XP_496050	E	A	EA	possibly damaging
rs393063	XP_496895	I	T	IT	benign
rs393063	NP_742017	I	T	IT	benign
rs393599	NP_006855	D	N	DN	benign
rs393949	NP_057442	E	G	EG	possibly damaging
rs393956	NP_057442	E	G	EG	possibly damaging
rs394558	XP_376203	V	I	VI	benign
rs394732	NP_003648	Q	K	QK	benign
rs394965	NP_002146	R	H	RH	benign
rs395127	NP_115534	A	V	AV	benign
rs395127	NP_683881	A	V	AV	benign
rs395127	NP_683738	A	V	AV	benign
rs395408	NP_079199	P	R	PR	probably damaging
rs395420	XP_294590	R	Q	RQ	benign
rs395763	XP_290401	G	S	GS	benign
rs396058	NP_115897	M	V	MV	benign
rs396190	NP_005671	I	V	IV	benign
rs396716	NP_000560	Y	H	YH	benign
rs396946	XP_497714	T	A	TA	benign
rs396991	NP_000560	V	F	VF	benign
rs397205	NP_110413	A	T	AT	benign
rs397861	NP_003725	R	Q	RQ	benign
rs398003	XP_290401	T	A	TA	benign
rs398064	NP_003050	L	V	LV	benign
rs398235	NP_003436	I	F	IF	benign

rs398235	NP_932355	I	F	IF	benign
rs398263	NP_612190	Q	K	QK	benign
rs398263	NP_066984	Q	K	QK	benign
rs398263	NP_612191	Q	K	QK	benign
rs398607	NP_000144	I	T	IT	benign
rs398829	NP_055059	V	I	VI	benign
rs399098	NP_003416	R	K	RK	benign
rs399140	XP_371430	A	T	AT	benign
rs399145	NP_002650	T	A	TA	benign
rs399340	XP_498195	R	K	RK	benign
rs399482	NP_941966	D	V	DV	probably damaging
rs399490	NP_066405	K	N	KN	benign
rs400282	NP_115534	W	S	WS	probably damaging
rs400282	NP_683881	W	S	WS	probably damaging
rs400282	NP_683738	W	S	WS	probably damaging
rs400377	NP_000067	T	S	TS	benign
rs400562	NP_056484	S	P	SP	benign
rs400835	NP_002146	R	Q	RQ	benign
rs401003	NP_982258	Q	H	QH	benign
rs401091	XP_498195	F	S	FS	possibly damaging
rs401292	XP_498195	R	W	RW	benign
rs401640	NP_005712	D	H	DH	probably damaging
rs401641	NP_006151	E	D	ED	benign
rs401757	XP_374318	S	L	SL	benign
rs402286	XP_499223	R	G	RG	possibly damaging
rs402680	NP_003725	R	Q	RQ	benign
rs403016	NP_000560	R	S	RS	benign
rs403989	NP_005295	L	V	LV	benign
rs403989	NP_005296	V	L	VL	benign
rs404299	NP_954648	A	T	AT	benign
rs404299	NP_115499	A	T	AT	benign
rs404299	NP_954649	A	T	AT	benign
rs404527	NP_056222	C	W	CW	probably damaging
rs405397	XP_028522	V	I	VI	benign
rs406113	NP_874360	F	L	FL	benign
rs406141	NP_009043	P	T	PT	probably damaging
rs406459	NP_006364	E	Q	EQ	benign
rs406970	NP_002305	G	S	GS	benign
rs406970	NP_058015	G	S	GS	benign
rs407371	NP_005712	Y	C	YC	probably damaging
rs407645	NP_000140	Q	R	QR	benign
rs407645	NP_002025	R	Q	RQ	benign
rs407731	NP_003416	R	K	RK	benign
rs408038	NP_003725	V	M	VM	benign
rs408535	NP_000080	A	G	AG	benign
rs408911	NP_443183	A	T	AT	benign

rs409093	NP_005297	L	H	LH	probably damaging
rs409193	NP_037411	R	K	RK	benign
rs409364	XP_498195	Y	H	YH	possibly damaging
rs409447	NP_663620	P	Q	PQ	possibly damaging
rs409652	XP_496413	R	G	RG	benign
rs409674	XP_496045	L	P	LP	benign
rs409674	XP_496034	P	L	PL	benign
rs409782	NP_658983	L	V	LV	benign
rs410232	NP_000177	V	L	VL	benign
rs410232	NP_002104	V	L	VL	benign
rs410352	NP_054785	E	K	EK	benign
rs410400	XP_372584	P	R	PR	possibly damaging
rs411127	NP_001788	F	L	FL	benign
rs411127	NP_387513	F	L	FL	benign
rs411622	XP_497999	T	K	TK	benign
rs411681	XP_371430	G	V	GV	benign
rs412533	NP_775109	I	V	IV	benign
rs412750	NP_006188	S	N	SN	benign
rs412978	XP_292021	S	N	SN	benign
rs413801	NP_060779	A	T	AT	benign
rs414352	NP_006260	S	P	SP	benign
rs414416	XP_371243	S	F	SF	probably damaging
rs414528	NP_060937	S	L	SL	possibly damaging
rs414702	XP_498195	Q	P	QP	benign
rs414818	NP_067628	T	S	TS	benign
rs415064	NP_110400	Q	H	QH	probably damaging
rs415610	NP_036258	P	S	PS	benign
rs415610	NP_078809	P	S	PS	benign
rs415793	NP_038478	S	N	SN	benign
rs415895	NP_055870	E	Q	EQ	benign
rs416185	XP_496895	P	T	PT	probably damaging
rs416185	XP_290401	T	P	TP	probably damaging
rs416507	NP_054785	E	K	EK	benign
rs416574	NP_976042	V	A	VA	benign
rs416574	NP_976041	V	A	VA	benign
rs417079	XP_496261	R	C	RC	probably damaging
rs417341	NP_000140	R	G	RG	probably damaging
rs417707	NP_002146	V	F	VF	benign
rs417751	NP_005316	T	I	TI	possibly damaging
rs417808	NP_113610	T	P	TP	benign
rs418082	XP_373672	Q	H	QH	benign
rs418495	NP_031361	D	A	DA	benign
rs418495	NP_031363	D	A	DA	benign
rs418495	NP_031362	D	A	DA	benign
rs418495	NP_031364	D	A	DA	possibly damaging
rs418546	NP_113610	K	T	KT	possibly damaging



rs418570	NP_000080	H	Q	HQ	benign
rs418638	XP_496034	M	V	MV	benign
rs418638	XP_496046	V	M	VM	benign
rs418888	NP_057257	L	M	LM	benign
rs419160	NP_037456	H	Q	HQ	probably damaging
rs419160	NP_659508	H	Q	HQ	probably damaging
rs419164	NP_031361	Q	H	QH	benign
rs419164	NP_031363	Q	H	QH	benign
rs419164	NP_031364	Q	H	QH	benign
rs419164	NP_031362	Q	H	QH	benign
rs419182	NP_031361	N	Y	NY	benign
rs419182	NP_031363	N	Y	NY	benign
rs419182	NP_031362	N	Y	NY	benign
rs419182	NP_031364	N	Y	NY	possibly damaging
rs419202	NP_037456	P	R	PR	probably damaging
rs419202	NP_659508	P	R	PR	probably damaging
rs419346	NP_037456	P	H	PH	probably damaging
rs419346	NP_659508	P	H	PH	probably damaging
rs419616	NP_031361	Q	P	QP	benign
rs419616	NP_031363	Q	P	QP	benign
rs419616	NP_031362	Q	P	QP	benign
rs419616	NP_031364	Q	P	QP	possibly damaging
rs419653	NP_055281	I	T	IT	possibly damaging
rs420451	XP_375634	L	V	LV	benign
rs421206	XP_498195	I	L	IL	benign
rs421262	NP_000144	A	T	AT	benign
rs421427	NP_054785	Q	H	QH	possibly damaging
rs422098	XP_374318	L	P	LP	possibly damaging
rs422145	NP_065998	R	C	RC	possibly damaging
rs422361	NP_000080	D	E	DE	benign
rs422902	XP_497258	T	P	TP	possibly damaging
rs423074	NP_689836	E	K	EK	benign
rs423120	NP_859016	S	C	SC	possibly damaging
rs423385	NP_005296	C	R	CR	possibly damaging
rs423385	NP_005295	R	C	RC	possibly damaging
rs424132	NP_689570	L	I	LI	benign
rs424241	NP_005295	R	W	RW	possibly damaging
rs424241	NP_005296	W	R	WR	possibly damaging
rs424715	NP_005295	A	V	AV	benign
rs424715	NP_005296	V	A	VA	benign
rs424816	XP_374318	R	M	RM	benign
rs425757	NP_002104	Y	H	YH	benign
rs425876	NP_000313	K	R	KR	benign
rs426453	NP_060287	N	S	NS	benign
rs426938	NP_085050	P	A	PA	possibly damaging
rs427127	NP_060730	D	E	DE	benign

rs427206	XP_290401	T	A	TA	benign
rs427300	XP_499223	D	G	DG	possibly damaging
rs427461	XP_209140	R	P	RP	probably damaging
rs427880	NP_689570	N	S	NS	benign
rs428073	NP_057365	N	S	NS	benign
rs428231	NP_060700	T	P	TP	benign
rs428398	NP_689801	D	Y	DY	probably damaging
rs428785	NP_008919	A	P	AP	benign
rs428888	NP_000560	D	N	DN	benign
rs429329	NP_000583	A	T	AT	benign
rs429329	NP_001002029	T	A	TA	benign
rs429358	NP_000032	C	R	CR	probably damaging
rs429477	NP_003231	Q	R	QR	benign
rs429710	XP_290401	K	R	KR	benign
rs429710	XP_496895	K	R	KR	benign
rs430296	NP_612398	P	L	PL	benign
rs430554	NP_775490	V	A	VA	benign
rs430945	NP_006061	A	V	AV	benign
rs430991	NP_068555	H	Q	HQ	benign
rs431371	XP_371174	I	L	IL	benign
rs431818	NP_065998	V	I	VI	benign
rs431898	NP_003741	K	N	KN	benign
rs431994	XP_499223	R	C	RC	possibly damaging
rs432500	NP_002572	R	K	RK	benign
rs433016	NP_443116	K	Q	KQ	benign
rs433016	XP_375634	Q	K	QK	benign
rs433032	NP_079199	A	P	AP	benign
rs433272	NP_068555	T	N	TN	benign
rs434127	NP_006855	H	N	HN	benign
rs434331	NP_059991	A	D	AD	benign
rs434473	NP_000688	N	S	NS	benign
rs435590	NP_037491	P	A	PA	probably damaging
rs435727	NP_803235	G	R	GR	probably damaging
rs435728	NP_803235	G	A	GA	possibly damaging
rs436278	NP_065998	D	E	DE	benign
rs436737	NP_477352	G	R	GR	probably damaging
rs437014	NP_005546	V	I	VI	benign
rs437179	NP_008860	L	M	LM	benign
rs438096	NP_631944	R	Q	RQ	benign
rs438096	NP_005465	R	Q	RQ	benign
rs438287	NP_003725	Y	H	YH	probably damaging
rs438363	NP_208384	N	S	NS	benign
rs438766	NP_005059	L	F	LF	benign
rs438804	XP_290331	R	W	RW	possibly damaging
rs438999	NP_008860	R	Q	RQ	benign
rs439078	NP_002146	G	S	GS	benign

rs439676	NP_037491	R	C	RC	probably damaging
rs439825	XP_496034	R	Q	RQ	benign
rs439898	XP_496413	W	R	WR	possibly damaging
rs439898	NP_000148	R	W	RW	probably damaging
rs440160	NP_061978	R	P	RP	possibly damaging
rs440731	NP_443116	R	W	RW	benign
rs440731	XP_375634	W	R	WR	possibly damaging
rs440755	NP_005365	Q	H	QH	benign
rs441071	NP_009036	R	G	RG	possibly damaging
rs441610	NP_000140	L	M	LM	benign
rs441827	NP_604393	T	A	TA	benign
rs442275	NP_002462	Q	E	QE	possibly damaging
rs442800	NP_775814	K	E	KE	benign
rs443082	NP_000560	G	D	GD	benign
rs443225	NP_031361	Q	H	QH	benign
rs443225	NP_031363	Q	H	QH	benign
rs443225	NP_031362	Q	H	QH	benign
rs443225	NP_031364	Q	H	QH	possibly damaging
rs443563	NP_775821	I	N	IN	benign
rs443658	NP_001965	N	S	NS	benign
rs443751	NP_075565	R	K	RK	benign
rs444172	NP_060730	R	C	RC	benign
rs444527	NP_689836	R	W	RW	benign
rs444772	NP_006260	R	H	RH	benign
rs445154	NP_002572	P	L	PL	probably damaging
rs445159	NP_002572	P	L	PL	probably damaging
rs445895	XP_499223	L	P	LP	possibly damaging
rs446014	NP_954648	R	S	RS	possibly damaging
rs446014	NP_115499	R	S	RS	possibly damaging
rs446014	NP_954649	R	S	RS	possibly damaging
rs446227	NP_006260	A	T	AT	benign
rs446644	NP_775814	A	T	AT	benign
rs447017	NP_892029	S	R	SR	benign
rs447727	NP_942568	L	V	LV	benign
rs447802	NP_060178	A	T	AT	benign
rs448012	NP_002011	Q	H	QH	benign
rs448012	NP_891555	Q	H	QH	benign
rs448076	NP_031361	L	F	LF	benign
rs448076	NP_031363	L	F	LF	benign
rs448076	NP_031364	L	F	LF	benign
rs448076	NP_031362	L	F	LF	benign
rs448446	NP_689570	P	R	PR	probably damaging
rs448740	NP_000560	S	N	SN	benign
rs448921	NP_003436	R	H	RH	benign
rs448921	NP_932355	R	H	RH	benign
rs449000	NP_663620	D	E	DE	benign

rs449407	NP_114062	T	N	TN	benign
rs449407	NP_061734	T	N	TN	benign
rs449643	NP_008860	V	A	VA	benign
rs449709	XP_374318	Q	R	QR	benign
rs449770	NP_982258	Q	H	QH	benign
rs449856	NP_000552	S	T	ST	benign
rs449856	NP_666533	S	T	ST	benign
rs449856	NP_000839	T	S	TS	benign
rs449911	NP_703146	W	C	WC	possibly damaging
rs450042	XP_374318	S	P	SP	benign
rs450046	NP_057419	R	Q	RQ	benign
rs450205	NP_703146	F	L	FL	benign
rs450363	NP_002146	G	V	GV	probably damaging
rs450501	XP_371243	R	K	RK	benign
rs451195	NP_000934	N	S	NS	benign
rs451571	NP_057023	E	G	EG	benign
rs451863	NP_031361	P	A	PA	possibly damaging
rs451863	NP_031363	P	A	PA	possibly damaging
rs451863	NP_031364	P	A	PA	possibly damaging
rs451863	NP_031362	P	A	PA	possibly damaging
rs452004	NP_002146	M	V	MV	benign
rs452752	NP_000832	L	F	LF	benign
rs452942	NP_054762	I	L	IL	benign
rs454175	NP_054762	K	T	KT	benign
rs454301	NP_037491	I	F	IF	benign
rs454995	XP_496146	R	Q	RQ	benign
rs455527	NP_705900	F	L	FL	benign
rs455863	NP_705615	R	Q	RQ	benign
rs456070	NP_703190	Q	K	QK	benign
rs456070	NP_703192	Q	K	QK	possibly damaging
rs456070	NP_116121	Q	K	QK	possibly damaging
rs456392	NP_003050	Q	H	QH	benign
rs457297	XP_375931	L	F	LF	benign
rs457403	XP_370958	P	L	PL	probably damaging
rs457651	NP_996916	G	E	GE	possibly damaging
rs457651	NP_996917	G	E	GE	possibly damaging
rs457651	NP_996915	G	E	GE	possibly damaging
rs457755	NP_996916	G	R	GR	probably damaging
rs457755	NP_996917	G	R	GR	probably damaging
rs457755	NP_996915	G	R	GR	probably damaging
rs457857	NP_001965	I	V	IV	benign
rs457896	NP_945346	L	R	LR	benign
rs457947	NP_008969	A	G	AG	benign
rs458017	NP_002903	C	Y	CY	benign
rs458210	NP_059990	T	P	TP	benign
rs458245	XP_373053	M	T	MT	benign

rs458273	NP_037387	D	H	DH	benign
rs458683	NP_002305	P	L	PL	possibly damaging
rs458683	NP_058015	P	L	PL	probably damaging
rs458698	NP_705615	P	Q	PQ	probably damaging
rs458698	NP_705616	P	Q	PQ	probably damaging
rs459096	NP_008969	V	G	VG	possibly damaging
rs459552	NP_000029	D	V	DV	benign
rs460184	NP_000177	V	A	VA	benign
rs460589	NP_848652	A	G	AG	benign
rs460897	NP_000177	S	L	SL	possibly damaging
rs461222	NP_705615	R	G	RG	possibly damaging
rs461222	NP_705616	R	G	RG	probably damaging
rs461285	NP_037411	T	N	TN	benign
rs461645	NP_001965	I	V	IV	benign
rs461653	NP_061759	T	S	TS	benign
rs462007	NP_941965	C	R	CR	probably damaging
rs462733	XP_373053	M	L	ML	benign
rs462779	NP_002903	I	T	IT	benign
rs463312	NP_110400	Q	P	QP	probably damaging
rs464391	NP_941967	P	R	PR	benign
rs464424	NP_941967	V	L	VL	benign
rs464691	NP_733764	Y	S	YS	benign
rs464691	NP_653273	Y	S	YS	possibly damaging
rs464696	NP_653273	T	P	TP	benign
rs464696	NP_733764	T	P	TP	possibly damaging
rs465223	XP_371813	S	T	ST	benign
rs465279	NP_941961	S	P	SP	benign
rs466096	NP_037387	L	I	LI	benign
rs466113	NP_945346	N	D	ND	benign
rs466384	NP_005443	V	A	VA	possibly damaging
rs466519	NP_037387	P	H	PH	probably damaging
rs466876	NP_001965	T	M	TM	possibly damaging
rs467744	NP_003874	R	P	RP	probably damaging
rs468120	XP_375243	V	I	VI	benign
rs468203	NP_009049	G	S	GS	benign
rs469062	NP_001953	N	K	NK	possibly damaging
rs469390	NP_002453	I	V	IV	benign
rs470035	NP_598397	R	G	RG	probably damaging
rs470117	NP_689453	E	K	EK	benign
rs470117	NP_689452	E	K	EK	benign
rs470208	XP_372437	T	A	TA	benign
rs470365	NP_004707	A	T	AT	benign
rs470365	XP_113228	T	A	TA	benign
rs470428	NP_005134	T	A	TA	benign
rs470897	XP_113228	G	R	GR	possibly damaging
rs470897	NP_004707	R	G	RG	possibly damaging

rs470947	NP_055039	T	A	TA	benign
rs471009	XP_113228	R	S	RS	benign
rs471009	NP_004707	S	R	SR	benign
rs471334	NP_008877	A	V	AV	benign
rs471525	XP_497082	R	Q	RQ	benign
rs472287	NP_612425	P	R	PR	probably damaging
rs472442	XP_372436	S	N	SN	benign
rs473009	XP_497309	E	D	ED	benign
rs473076	XP_496692	M	T	MT	benign
rs473093	NP_004707	R	Q	RQ	benign
rs473131	NP_004707	H	Y	HY	benign
rs473267	NP_056414	D	N	DN	possibly damaging
rs473840	XP_113228	M	R	MR	benign
rs473937	XP_113228	N	S	NS	benign
rs474299	XP_371304	T	M	TM	probably damaging
rs474299	XP_371302	T	M	TM	probably damaging
rs474474	NP_443128	H	R	HR	benign
rs474536	NP_115646	G	D	GD	benign
rs475002	NP_003074	L	V	LV	benign
rs475076	NP_689766	V	I	VI	benign
rs475807	XP_497720	A	S	AS	benign
rs475911	NP_001097	I	S	IS	probably damaging
rs475923	NP_940936	Y	N	YN	probably damaging
rs475947	XP_496032	T	M	TM	probably damaging
rs476188	XP_371304	P	H	PH	probably damaging
rs476188	XP_371302	P	H	PH	probably damaging
rs477207	NP_003725	G	S	GS	benign
rs477830	NP_361013	S	G	SG	benign
rs478185	NP_848660	G	E	GE	possibly damaging
rs478812	NP_006009	I	S	IS	benign
rs479085	XP_034717	D	E	DE	benign
rs479175	XP_034717	H	R	HR	benign
rs479448	NP_999841	Y	C	YC	probably damaging
rs479448	NP_999842	Y	C	YC	probably damaging
rs479448	NP_999843	Y	C	YC	probably damaging
rs479448	NP_999844	Y	C	YC	probably damaging
rs479448	NP_999840	Y	C	YC	probably damaging
rs479499	NP_963917	Q	K	QK	benign
rs479499	NP_612210	Q	K	QK	benign
rs479588	NP_536739	S	A	SA	benign
rs479612	NP_076984	Q	H	QH	benign
rs479617	NP_076984	K	T	KT	possibly damaging
rs479632	NP_002644	A	G	AG	benign
rs479661	NP_443178	E	G	EG	possibly damaging
rs479917	XP_212238	R	W	RW	benign
rs480625	XP_370872	D	N	DN	possibly damaging

rs480727	NP_112190	A	T	AT	benign
rs480963	NP_940949	V	A	VA	benign
rs481119	XP_290923	G	V	GV	benign
rs482082	NP_079039	R	Q	RQ	benign
rs482145	NP_005518	T	M	TM	probably damaging
rs482849	XP_212241	H	Y	HY	benign
rs482849	XP_212238	Y	H	YH	benign
rs482912	NP_055213	I	V	IV	benign
rs483638	NP_005337	S	N	SN	benign
rs484373	NP_004458	T	I	TI	benign
rs484373	NP_671736	T	I	TI	benign
rs484373	NP_963846	T	I	TI	benign
rs484373	NP_963847	T	I	TI	benign
rs484770	NP_002262	E	K	EK	possibly damaging
rs484870	NP_940936	D	G	DG	possibly damaging
rs486055	NP_002416	R	K	RK	benign
rs486473	XP_497999	R	G	RG	possibly damaging
rs486770	NP_065208	T	P	TP	possibly damaging
rs486770	NP_065209	T	P	TP	possibly damaging
rs486770	NP_000028	T	P	TP	possibly damaging
rs486770	NP_065210	T	P	TP	possibly damaging
rs486907	NP_066956	R	Q	RQ	benign
rs486914	XP_371677	E	K	EK	benign
rs487230	XP_371254	V	A	VA	benign
rs487848	NP_006587	A	V	AV	benign
rs487848	NP_955452	A	V	AV	benign
rs487956	NP_004779	S	R	SR	benign
rs487989	NP_002680	G	R	GR	benign
rs488018	NP_036368	D	N	DN	possibly damaging
rs488228	NP_665808	G	A	GA	benign
rs488295	NP_071403	G	S	GS	possibly damaging
rs491160	XP_166869	P	T	PT	benign
rs491208	XP_372548	F	L	FL	possibly damaging
rs491333	NP_079060	K	Q	KQ	benign
rs491671	NP_060310	R	C	RC	benign
rs491684	NP_945342	L	W	LW	possibly damaging
rs492193	NP_055397	F	Y	FY	benign
rs492594	NP_066999	V	L	VL	benign
rs494791	NP_068597	F	L	FL	benign
rs495294	NP_065796	A	D	AD	benign
rs495335	NP_006052	S	P	SP	benign
rs495820	NP_037438	R	C	RC	benign
rs496207	NP_003817	L	F	LF	benign
rs496420	XP_372563	W	S	WS	probably damaging
rs496420	XP_372565	W	S	WS	probably damaging
rs497554	NP_055972	R	W	RW	possibly damaging

rs498055	XP_495845	D	E	DE	benign
rs498336	XP_294634	L	M	LM	benign
rs499895	XP_290331	M	V	MV	benign
rs500049	XP_290923	A	V	AV	benign
rs500611	NP_001097	E	D	ED	benign
rs500969	XP_496194	R	Q	RQ	benign
rs501590	XP_371028	L	V	LV	benign
rs502209	NP_001513	Q	R	QR	benign
rs502569	XP_495898	R	C	RC	probably damaging
rs502882	NP_065895	E	G	EG	benign
rs503063	NP_112493	K	Q	KQ	benign
rs503223	XP_372436	G	S	GS	benign
rs504122	NP_005833	P	S	PS	benign
rs504280	XP_496300	R	Q	RQ	possibly damaging
rs504465	NP_065208	A	P	AP	benign
rs504465	NP_065209	A	P	AP	benign
rs504465	NP_000028	A	P	AP	benign
rs504465	NP_065210	A	P	AP	possibly damaging
rs504593	NP_699193	Q	R	QR	benign
rs504815	XP_376965	E	K	EK	benign
rs505151	NP_777596	G	E	GE	possibly damaging
rs505480	NP_065895	P	T	PT	benign
rs505760	NP_060570	E	K	EK	benign
rs506028	NP_008877	V	A	VA	benign
rs506425	NP_065955	I	V	IV	benign
rs506504	NP_001265	V	I	VI	benign
rs507329	NP_112190	R	C	RC	probably damaging
rs507335	XP_372441	H	R	HR	benign
rs507360	XP_372441	Q	R	QR	benign
rs507879	NP_004338	A	T	AT	benign
rs507959	XP_497720	L	P	LP	probably damaging
rs508405	NP_653176	A	T	AT	benign
rs509941	NP_115885	L	V	LV	benign
rs509962	NP_115885	K	N	KN	benign
rs510145	NP_060236	Y	H	YH	possibly damaging
rs510579	NP_659417	M	I	MI	benign
rs510643	XP_034717	G	S	GS	benign
rs510737	NP_542780	V	G	VG	possibly damaging
rs510858	NP_849192	D	H	DH	probably damaging
rs511280	XP_212238	L	F	LF	benign
rs512110	XP_041018	A	T	AT	benign
rs512215	XP_087254	E	K	EK	benign
rs512327	XP_212238	E	Q	EQ	benign
rs512327	XP_212241	Q	E	QE	benign
rs512437	XP_212241	I	V	IV	benign
rs512437	XP_212238	I	V	IV	benign



rs512736	XP_497472	Q	E	QE	benign
rs513094	XP_212238	K	T	KT	benign
rs513094	XP_212241	T	K	TK	benign
rs513591	XP_372437	T	S	TS	benign
rs513964	NP_002412	D	G	DG	probably damaging
rs514521	NP_068658	S	R	SR	possibly damaging
rs514521	NP_004349	S	R	SR	possibly damaging
rs514521	NP_997695	S	R	SR	possibly damaging
rs514521	NP_068660	S	R	SR	possibly damaging
rs514523	NP_068658	S	T	ST	benign
rs514523	NP_004349	S	T	ST	benign
rs514523	NP_997695	S	T	ST	benign
rs514523	NP_068660	S	T	ST	benign
rs514970	NP_954651	P	S	PS	probably damaging
rs515299	NP_000177	S	I	SI	possibly damaging
rs515457	XP_497472	E	D	ED	benign
rs515582	NP_579891	A	S	AS	benign
rs517634	XP_041018	T	A	TA	benign
rs517733	NP_954651	S	C	SC	benign
rs518835	NP_005924	S	L	SL	benign
rs519972	NP_000798	A	T	AT	benign
rs520004	XP_372563	D	N	DN	benign
rs520004	XP_372565	D	N	DN	benign
rs520611	NP_004101	Q	H	QH	possibly damaging
rs520611	NP_077728	Q	H	QH	possibly damaging
rs520713	NP_003189	V	I	VI	benign
rs520805	NP_005413	A	V	AV	benign
rs522063	NP_689809	T	A	TA	benign
rs522496	NP_065867	M	V	MV	possibly damaging
rs522835	XP_498198	G	E	GE	possibly damaging
rs522839	XP_498198	A	T	AT	benign
rs523104	NP_004338	V	L	VL	benign
rs523747	NP_068815	E	K	EK	benign
rs524523	NP_060340	R	H	RH	benign
rs524523	NP_821174	R	H	RH	benign
rs524529	XP_498198	P	S	PS	benign
rs524603	XP_372563	A	E	AE	benign
rs524603	XP_372565	A	E	AE	benign
rs524625	NP_942093	G	E	GE	probably damaging
rs525409	NP_940948	V	L	VL	benign
rs525886	NP_114062	P	R	PR	benign
rs525886	NP_061734	P	R	PR	benign
rs525941	NP_114062	K	R	KR	benign
rs525941	NP_061734	K	R	KR	benign
rs526106	XP_377742	S	T	ST	benign
rs526607	XP_495946	W	R	WR	probably damaging

rs527025	XP_292723	P	S	PS	possibly damaging
rs527221	NP_004400	L	V	LV	benign
rs528255	NP_065895	R	H	RH	benign
rs529038	NP_002935	D	N	DN	benign
rs529156	NP_002935	K	Q	KQ	benign
rs529208	NP_982272	P	T	PT	possibly damaging
rs530258	NP_463459	F	S	FS	probably damaging
rs530258	NP_055090	F	S	FS	probably damaging
rs530413	NP_002501	N	H	NH	benign
rs530436	NP_002501	S	C	SC	possibly damaging
rs530517	XP_372719	T	S	TS	benign
rs530978	XP_041018	T	M	TM	benign
rs530992	XP_372441	M	I	MI	benign
rs532411	NP_006587	A	V	AV	benign
rs532411	NP_955452	A	V	AV	benign
rs532598	NP_705872	S	N	SN	benign
rs532598	NP_065909	S	N	SN	benign
rs532598	NP_705871	S	N	SN	benign
rs532598	NP_705870	S	N	SN	benign
rs532598	NP_705869	S	N	SN	benign
rs532648	NP_003584	A	P	AP	possibly damaging
rs532841	NP_006085	V	M	VM	benign
rs532841	NP_872584	V	M	VM	benign
rs532964	NP_037523	S	P	SP	benign
rs533617	NP_000375	H	R	HR	probably damaging
rs534399	NP_000177	V	L	VL	benign
rs534516	NP_001097	E	G	EG	probably damaging
rs534749	NP_006838	Q	R	QR	benign
rs534751	NP_006838	K	E	KE	benign
rs535034	XP_496032	L	F	LF	benign
rs535237	NP_000375	L	V	LV	benign
rs535630	NP_000130	N	K	NK	benign
rs535810	XP_371273	T	P	TP	possibly damaging
rs536009	NP_061142	A	S	AS	benign
rs536009	NP_758424	A	S	AS	benign
rs536119	XP_046264	Q	R	QR	benign
rs536234	NP_031371	C	G	CG	probably damaging
rs536455	NP_002719	H	Y	HY	benign
rs537057	NP_001922	S	F	SF	possibly damaging
rs537060	NP_001922	L	F	LF	benign
rs537079	XP_497039	T	R	TR	benign
rs537079	XP_497029	T	R	TR	benign
rs537349	NP_620829	M	V	MV	benign
rs537349	NP_620832	M	V	MV	benign
rs537349	NP_620830	M	V	MV	benign
rs537816	NP_005207	G	R	GR	possibly damaging

rs539351	NP_663630	E	D	ED	benign
rs539765	NP_620427	R	C	RC	probably damaging
rs539765	NP_620428	R	C	RC	probably damaging
rs539765	NP_620429	R	C	RC	probably damaging
rs539765	NP_036236	R	C	RC	probably damaging
rs540045	NP_954636	K	Q	KQ	benign
rs540687	NP_006084	T	I	TI	possibly damaging
rs540742	NP_060125	L	P	LP	benign
rs540751	NP_659417	T	M	TM	benign
rs540874	NP_001095	R	Q	RQ	benign
rs540967	NP_060417	G	S	GS	benign
rs541641	XP_370840	Y	S	YS	probably damaging
rs542089	NP_835225	W	C	WC	probably damaging
rs542939	NP_937790	A	T	AT	benign
rs542998	NP_958831	V	A	VA	benign
rs543294	NP_037397	A	P	AP	benign
rs543355	NP_005550	T	A	TA	benign
rs543472	XP_496692	R	Q	RQ	benign
rs543573	NP_055861	V	I	VI	benign
rs543580	NP_057579	L	W	LW	possibly damaging
rs544198	XP_372668	M	L	ML	possibly damaging
rs544864	XP_166227	A	T	AT	benign
rs545500	NP_079404	P	R	PR	benign
rs545778	XP_166256	G	S	GS	benign
rs545973	NP_036566	A	T	AT	benign
rs546011	XP_372891	N	S	NS	benign
rs546502	NP_803172	V	I	VI	benign
rs546502	NP_003617	V	I	VI	benign
rs546824	XP_372891	H	Q	HQ	benign
rs546825	XP_496502	A	T	AT	benign
rs546825	NP_055163	A	T	AT	benign
rs546922	XP_372891	D	Y	DY	probably damaging
rs546941	XP_372891	N	S	NS	benign
rs547068	XP_372436	L	P	LP	possibly damaging
rs547499	NP_056049	T	M	TM	benign
rs547516	XP_496300	A	V	AV	possibly damaging
rs547809	NP_005725	S	F	SF	possibly damaging
rs547870	XP_372436	N	K	NK	benign
rs549148	NP_005469	Q	L	QL	benign
rs549474	NP_005195	R	K	RK	benign
rs549990	NP_112597	S	A	SA	benign
rs550252	NP_003189	A	V	AV	benign
rs550510	NP_005822	G	E	GE	benign
rs550625	NP_060101	V	M	VM	benign
rs550676	NP_612468	Q	H	QH	benign
rs550921	NP_000008	T	S	TS	benign

rs551134	NP_000723	D	A	DA	possibly damaging
rs551225	NP_877435	L	P	LP	probably damaging
rs551570	NP_036371	T	N	TN	benign
rs553509	XP_088735	R	H	RH	possibly damaging
rs553717	NP_004457	A	V	AV	benign
rs554202	NP_079374	M	V	MV	benign
rs554499	NP_002412	Q	P	QP	benign
rs554797	NP_002418	H	L	HL	probably damaging
rs554971	NP_742150	T	M	TM	benign
rs555131	NP_597705	L	F	LF	benign
rs556155	NP_002152	K	E	KE	benign
rs556155	NP_038203	K	E	KE	benign
rs556235	NP_536739	S	C	SC	possibly damaging
rs556337	NP_009097	F	L	FL	possibly damaging
rs556669	NP_996810	D	G	DG	benign
rs556669	NP_996811	D	G	DG	benign
rs556690	XP_372632	D	E	DE	benign
rs557337	XP_375032	V	A	VA	benign
rs557352	XP_041018	N	D	ND	benign
rs557465	NP_005924	Q	P	QP	possibly damaging
rs557491	NP_061142	M	V	MV	benign
rs557491	NP_758424	M	V	MV	benign
rs557503	NP_004706	P	H	PH	possibly damaging
rs557503	NP_430255	P	H	PH	possibly damaging
rs557590	XP_166868	T	A	TA	benign
rs557881	NP_003035	R	C	RC	benign
rs558018	NP_057240	N	S	NS	possibly damaging
rs558018	NP_958438	N	S	NS	possibly damaging
rs558465	XP_166868	T	A	TA	benign
rs558614	NP_055387	A	V	AV	benign
rs558760	NP_065867	V	I	VI	benign
rs558813	NP_620143	T	I	TI	possibly damaging
rs559449	XP_166868	L	P	LP	probably damaging
rs559527	XP_499223	I	V	IV	benign
rs560096	NP_002171	S	L	SL	possibly damaging
rs560191	NP_005648	D	E	DE	benign
rs560389	XP_034086	N	S	NS	benign
rs560505	NP_006772	P	S	PS	benign
rs561024	XP_375720	P	A	PA	possibly damaging
rs561037	NP_443173	E	K	EK	benign
rs561042	NP_443173	E	G	EG	benign
rs561704	NP_037396	M	R	MR	probably damaging
rs561958	NP_116190	E	G	EG	benign
rs561970	XP_041018	S	G	SG	benign
rs562047	NP_005336	D	E	DE	benign
rs562092	XP_498305	N	K	NK	probably damaging

rs562391	NP_005459	P	A	PA	possibly damaging
rs562392	NP_005459	R	S	RS	benign
rs562556	NP_777596	V	I	VI	benign
rs562578	XP_027658	D	H	DH	possibly damaging
rs563792	NP_008851	S	P	SP	possibly damaging
rs563868	NP_060774	R	Q	RQ	benign
rs564271	NP_612634	R	C	RC	possibly damaging
rs565156	XP_034086	T	N	TN	benign
rs565468	NP_065203	N	Y	NY	probably damaging
rs565668	XP_034717	N	D	ND	benign
rs565866	XP_034717	V	M	VM	benign
rs566334	XP_370872	K	E	KE	benign
rs566362	NP_000370	N	K	NK	probably damaging
rs566576	XP_034086	V	I	VI	benign
rs566655	NP_005550	N	T	NT	benign
rs567083	NP_005897	P	S	PS	benign
rs567949	NP_003400	I	F	IF	benign
rs567954	NP_003400	T	P	TP	benign
rs568413	NP_000375	C	Y	CY	probably damaging
rs569108	NP_000130	E	G	EG	probably damaging
rs569332	NP_071403	I	V	IV	benign
rs569336	XP_370651	V	I	VI	benign
rs569705	NP_116193	P	S	PS	probably damaging
rs570167	NP_002146	K	R	KR	benign
rs570189	NP_002146	K	E	KE	benign
rs570208	NP_065091	V	I	VI	benign
rs570218	NP_940949	H	R	HR	possibly damaging
rs570297	NP_065091	A	E	AE	possibly damaging
rs570337	NP_071403	G	E	GE	probably damaging
rs571264	NP_653278	V	I	VI	benign
rs571264	NP_945193	V	I	VI	benign
rs571353	NP_110419	T	A	TA	benign
rs571391	NP_057331	T	I	TI	benign
rs571655	NP_055917	E	K	EK	benign
rs572013	NP_003363	V	M	VM	benign
rs572982	NP_068599	K	Q	KQ	benign
rs573212	NP_003828	V	L	VL	benign
rs573455	XP_374936	Q	R	QR	benign
rs573724	XP_378185	I	T	IT	benign
rs576180	XP_210365	T	I	TI	possibly damaging
rs576619	NP_060101	I	V	IV	benign
rs576730	NP_065705	Y	S	YS	probably damaging
rs577249	NP_006129	N	H	NH	benign
rs577294	NP_057699	V	I	VI	benign
rs578430	NP_005583	V	L	VL	benign
rs580065	XP_371174	R	T	RT	benign

rs580459	NP_996810	M	V	MV	possibly damaging
rs580459	NP_996811	M	V	MV	possibly damaging
rs580825	NP_005050	E	D	ED	benign
rs580825	NP_604390	E	D	ED	benign
rs581994	XP_498305	K	R	KR	benign
rs582234	NP_060909	D	E	DE	benign
rs582803	NP_775831	S	N	SN	benign
rs583134	NP_002068	V	L	VL	benign
rs583903	NP_057593	D	G	DG	benign
rs584367	NP_036532	S	G	SG	benign
rs584542	NP_000375	V	I	VI	benign
rs584679	XP_499223	V	A	VA	benign
rs584717	NP_942154	P	T	PT	possibly damaging
rs585033	NP_940933	M	L	ML	benign
rs585209	NP_060017	V	G	VG	probably damaging
rs585627	NP_055203	Q	E	QE	benign
rs585664	NP_778253	S	F	SF	probably damaging
rs586024	NP_056049	M	T	MT	possibly damaging
rs586178	NP_057309	W	C	WC	benign
rs586178	NP_057208	W	C	WC	benign
rs586339	NP_055478	E	A	EA	benign
rs586542	NP_066938	Q	H	QH	possibly damaging
rs587404	NP_149033	A	T	AT	benign
rs587404	NP_036222	A	T	AT	benign
rs587660	NP_005134	S	P	SP	possibly damaging
rs588583	NP_955468	G	R	GR	possibly damaging
rs588583	NP_055761	G	R	GR	possibly damaging
rs589059	XP_496391	R	W	RW	benign
rs589059	XP_375869	R	W	RW	benign
rs589292	NP_775961	A	T	AT	benign
rs589623	XP_370652	R	Q	RQ	benign
rs590787	NP_057309	Y	C	YC	benign
rs590787	NP_057208	Y	C	YC	benign
rs590813	NP_057309	V	I	VI	benign
rs590813	NP_057208	V	I	VI	benign
rs591120	NP_149118	P	A	PA	benign
rs591369	XP_372403	V	M	VM	benign
rs591428	NP_066387	Q	H	QH	possibly damaging
rs591483	NP_066387	G	R	GR	possibly damaging
rs591530	NP_066387	G	R	GR	benign
rs592121	NP_001842	S	P	SP	possibly damaging
rs592121	NP_511040	S	P	SP	possibly damaging
rs592351	NP_066387	E	Q	EQ	benign
rs592595	NP_067013	L	F	LF	benign
rs592644	NP_775853	V	I	VI	benign
rs592727	NP_067013	S	F	SF	probably damaging

rs593747	NP_076418	I	M	IM	benign
rs593818	NP_076433	G	S	GS	benign
rs594445	NP_060417	N	H	NH	probably damaging
rs594495	NP_663630	H	R	HR	benign
rs594576	XP_371304	N	S	NS	probably damaging
rs594576	XP_371302	N	S	NS	probably damaging
rs595414	XP_496159	P	R	PR	possibly damaging
rs595689	XP_212238	D	E	DE	benign
rs595689	XP_212241	E	D	ED	benign
rs596220	XP_371116	L	W	LW	possibly damaging
rs596236	XP_212241	L	P	LP	possibly damaging
rs596236	XP_212238	P	L	PL	possibly damaging
rs596315	NP_005550	L	V	LV	benign
rs596838	NP_942154	K	Q	KQ	benign
rs596909	NP_001062	G	V	GV	probably damaging
rs597306	NP_005061	P	H	PH	possibly damaging
rs597306	NP_963868	P	H	PH	possibly damaging
rs597371	NP_940898	E	G	EG	probably damaging
rs597468	NP_076410	T	M	TM	probably damaging
rs597480	NP_996810	A	G	AG	benign
rs597480	NP_996811	A	G	AG	benign
rs597570	NP_005094	D	E	DE	benign
rs597681	NP_056952	E	K	EK	benign
rs597681	NP_055326	E	K	EK	benign
rs597681	NP_055034	K	E	KE	benign
rs598078	NP_056100	K	Q	KQ	benign
rs598078	NP_443066	K	Q	KQ	benign
rs598268	XP_372719	Y	H	YH	benign
rs598278	XP_372719	K	T	KT	benign
rs598475	XP_212241	M	T	MT	benign
rs598475	XP_212238	T	M	TM	benign
rs598709	XP_372719	R	G	RG	benign
rs599199	NP_001543	V	G	VG	benign
rs600499	NP_689820	H	Y	HY	benign
rs600648	NP_940891	W	G	WG	probably damaging
rs600753	NP_570722	G	E	GE	benign
rs601172	NP_690591	F	L	FL	benign
rs601172	NP_690590	F	L	FL	possibly damaging
rs601172	NP_071744	F	L	FL	probably damaging
rs601314	NP_058634	V	I	VI	benign
rs601558	NP_848660	P	L	PL	probably damaging
rs601684	NP_055039	V	L	VL	benign
rs602224	XP_372403	T	I	TI	benign
rs602444	NP_703144	H	Y	HY	probably damaging
rs602662	NP_000502	G	S	GS	benign
rs602990	NP_003362	M	V	MV	benign

rs603280	NP_055006	S	F	SF	possibly damaging
rs604595	NP_005600	N	K	NK	probably damaging
rs604630	NP_001326	G	S	GS	benign
rs605059	NP_000404	S	G	SG	benign
rs605611	XP_378185	I	M	IM	benign
rs605734	XP_166834	L	F	LF	benign
rs606072	NP_065799	H	N	HN	possibly damaging
rs606226	XP_497312	D	N	DN	benign
rs606226	XP_497313	E	G	EG	possibly damaging
rs606830	NP_001326	Q	R	QR	benign
rs607159	NP_002388	S	F	SF	possibly damaging
rs607230	NP_005550	K	E	KE	benign
rs607426	NP_778238	E	G	EG	benign
rs607969	NP_570711	R	Q	RQ	benign
rs607969	NP_570716	R	Q	RQ	benign
rs608052	NP_065895	G	R	GR	benign
rs608144	NP_940936	L	P	LP	probably damaging
rs608339	NP_443173	L	M	LM	benign
rs608433	NP_031371	V	I	VI	benign
rs608620	NP_004707	L	V	LV	benign
rs608634	NP_689647	P	T	PT	possibly damaging
rs609290	NP_076433	V	I	VI	benign
rs609443	NP_068599	Q	P	QP	benign
rs609521	NP_056417	P	R	PR	benign
rs609563	XP_370958	S	P	SP	benign
rs609636	NP_076433	D	N	DN	benign
rs609828	NP_115897	C	S	CS	benign
rs610211	NP_008969	V	G	VG	possibly damaging
rs610913	NP_612450	P	H	PH	probably damaging
rs612593	NP_057593	V	I	VI	benign
rs612969	NP_005413	G	R	GR	probably damaging
rs613240	NP_056952	P	R	PR	benign
rs613240	NP_055326	P	R	PR	benign
rs613240	NP_055034	R	P	RP	benign
rs613875	NP_065091	F	L	FL	benign
rs613907	NP_061753	L	M	LM	benign
rs614076	XP_171040	G	R	GR	probably damaging
rs614447	XP_290941	S	F	SF	benign
rs614486	XP_371248	D	E	DE	benign
rs614649	XP_212238	A	T	AT	benign
rs614649	XP_212241	T	A	TA	benign
rs614696	XP_212241	K	M	KM	benign
rs614696	XP_212238	M	K	MK	benign
rs614720	NP_006380	T	N	TN	benign
rs615151	NP_775901	W	G	WG	probably damaging
rs615436	NP_694882	W	R	WR	probably damaging



rs615436	NP_079496	W	R	WR	probably damaging
rs615605	XP_372719	I	K	IK	probably damaging
rs615714	XP_372719	Q	E	QE	benign
rs615942	NP_079509	Y	S	YS	benign
rs616114	NP_005916	L	P	LP	possibly damaging
rs616235	NP_005233	N	S	NS	benign
rs616338	NP_057512	S	F	SF	benign
rs616634	NP_004188	S	G	SG	benign
rs616634	NP_115830	S	G	SG	benign
rs617368	NP_149033	R	T	RT	benign
rs617368	NP_036222	R	T	RT	possibly damaging
rs617401	NP_149033	M	V	MV	benign
rs617401	NP_036222	M	V	MV	possibly damaging
rs617405	NP_149033	Q	H	QH	benign
rs617405	NP_036222	Q	H	QH	possibly damaging
rs617422	NP_149033	Q	H	QH	benign
rs617422	NP_036222	Q	H	QH	possibly damaging
rs617863	NP_149033	V	L	VL	benign
rs617863	NP_036222	V	L	VL	benign
rs618066	NP_008842	K	M	KM	probably damaging
rs618096	NP_061758	R	Q	RQ	benign
rs618506	NP_061758	S	R	SR	probably damaging
rs618835	NP_002246	Y	C	YC	benign
rs618838	NP_001095	R	C	RC	probably damaging
rs619006	XP_370844	K	T	KT	benign
rs619203	NP_002935	S	C	SC	probably damaging
rs619381	NP_076408	M	I	MI	possibly damaging
rs620101	XP_376610	S	G	SG	benign
rs620207	NP_006855	L	W	LW	possibly damaging
rs620234	NP_149033	S	T	ST	benign
rs620234	NP_036222	S	T	ST	benign
rs620443	NP_941966	N	D	ND	benign
rs620552	XP_041018	S	P	SP	benign
rs620685	NP_003400	F	S	FS	possibly damaging
rs621075	NP_149033	Q	H	QH	benign
rs621075	NP_036222	Q	H	QH	possibly damaging
rs621383	NP_078904	V	I	VI	benign
rs621476	XP_497792	N	S	NS	benign
rs621679	NP_002330	A	T	AT	benign
rs622082	NP_002171	T	A	TA	benign
rs622288	NP_060586	T	I	TI	possibly damaging
rs622397	NP_000675	K	R	KR	benign
rs622756	NP_112597	D	Y	DY	benign
rs623053	NP_060417	I	T	IT	possibly damaging
rs623447	XP_372118	D	E	DE	benign
rs623558	NP_060417	R	H	RH	benign

rs625372	NP_075556	K	R	KR	benign
rs626560	NP_835225	A	T	AT	benign
rs626578	XP_039627	N	S	NS	benign
rs626992	NP_478126	L	V	LV	benign
rs627441	NP_001922	V	A	VA	benign
rs627530	NP_443134	F	S	FS	benign
rs627928	NP_066956	D	E	DE	benign
rs628031	NP_694857	M	V	MV	benign
rs628031	NP_003048	M	V	MV	benign
rs628105	XP_212241	G	E	GE	possibly damaging
rs628125	XP_212241	P	L	PL	probably damaging
rs628524	XP_497294	S	N	SN	benign
rs628525	NP_001399	R	Q	RQ	benign
rs629001	XP_291485	D	N	DN	benign
rs629002	XP_212241	S	G	SG	benign
rs629311	NP_003035	P	S	PS	benign
rs629709	XP_496272	T	M	TM	probably damaging
rs629849	NP_000867	G	R	GR	possibly damaging
rs629976	NP_742151	R	H	RH	benign
rs630079	NP_003725	H	R	HR	benign
rs630162	NP_114065	T	A	TA	benign
rs630162	NP_061724	T	A	TA	benign
rs631357	NP_065867	E	D	ED	benign
rs632729	NP_002262	E	K	EK	benign
rs633422	XP_113962	K	N	KN	benign
rs633500	NP_055754	S	P	SP	benign
rs633557	NP_115720	P	L	PL	benign
rs633561	NP_115720	R	Q	RQ	benign
rs634222	NP_006660	L	F	LF	benign
rs634254	XP_498425	G	S	GS	benign
rs634361	XP_166777	T	A	TA	benign
rs634501	NP_002397	P	L	PL	possibly damaging
rs634710	NP_002068	T	K	TK	benign
rs635025	XP_166256	G	S	GS	benign
rs635311	NP_005061	A	D	AD	benign
rs635311	NP_963868	D	A	DA	benign
rs635356	XP_372118	P	T	PT	possibly damaging
rs635356	NP_997299	P	T	PT	possibly damaging
rs636604	NP_998765	G	V	GV	benign
rs636926	NP_775761	N	K	NK	benign
rs637186	NP_055022	R	H	RH	benign
rs637435	NP_036219	D	N	DN	benign
rs637450	NP_775761	R	G	RG	benign
rs637790	NP_995324	L	V	LV	benign
rs638043	NP_000414	G	D	GD	benign
rs638333	NP_775761	L	F	LF	benign

rs638524	NP_065387	A	V	AV	benign
rs638744	NP_036234	L	V	LV	benign
rs640132	NP_055434	E	G	EG	probably damaging
rs640192	XP_292184	N	S	NS	benign
rs640343	NP_066011	A	P	AP	benign
rs641081	NP_003968	K	Q	KQ	benign
rs641153	NP_001701	Q	R	QR	benign
rs641252	NP_000042	S	R	SR	benign
rs641320	NP_060617	A	T	AT	benign
rs641393	NP_996810	T	M	TM	benign
rs641393	NP_996811	T	M	TM	benign
rs641488	XP_212241	K	R	KR	benign
rs641488	XP_212238	R	K	RK	benign
rs641606	NP_009215	V	A	VA	benign
rs641615	NP_000415	D	E	DE	benign
rs641667	XP_034717	I	T	IT	benign
rs641738	NP_653287	G	E	GE	benign
rs642025	XP_034717	Y	F	YF	benign
rs642372	XP_372046	T	A	TA	benign
rs642381	XP_212241	E	G	EG	possibly damaging
rs643050	NP_068813	S	I	SI	possibly damaging
rs643232	NP_996665	N	K	NK	benign
rs643347	NP_037421	V	I	VI	benign
rs643423	NP_733840	P	S	PS	benign
rs643423	NP_078894	P	S	PS	possibly damaging
rs643788	NP_976061	I	V	IV	benign
rs643861	NP_037421	V	M	VM	benign
rs644564	NP_835471	Y	H	YH	possibly damaging
rs644799	NP_055494	R	G	RG	possibly damaging
rs644827	NP_116183	V	M	VM	benign
rs644827	NP_079533	V	M	VM	benign
rs645556	NP_056518	L	F	LF	benign
rs645625	NP_056518	R	Q	RQ	benign
rs645627	NP_056518	V	I	VI	benign
rs646509	NP_056092	I	L	IL	benign
rs646617	NP_722449	D	E	DE	benign
rs646617	NP_722451	D	E	DE	benign
rs646805	NP_002507	N	Y	NY	possibly damaging
rs647179	NP_002507	I	F	IF	benign
rs647224	NP_115643	W	C	WC	probably damaging
rs648802	NP_071404	P	R	PR	probably damaging
rs649224	NP_002387	G	E	GE	benign
rs652397	NP_004846	S	G	SG	benign
rs652423	NP_005546	S	N	SN	benign
rs652633	NP_942093	L	Q	LQ	possibly damaging
rs652641	NP_037421	G	R	GR	possibly damaging

rs652641	XP_498425	W	R	WR	probably damaging
rs652741	NP_037421	P	S	PS	benign
rs652741	XP_498425	S	T	ST	benign
rs652785	NP_000553	Q	K	QK	possibly damaging
rs653057	XP_372441	V	I	VI	benign
rs653635	NP_001399	Y	H	YH	benign
rs653737	XP_375853	Y	C	YC	probably damaging
rs653901	NP_001199	R	W	RW	benign
rs654686	NP_006728	A	T	AT	benign
rs654983	XP_497999	T	I	TI	possibly damaging
rs655260	NP_443173	Y	N	YN	possibly damaging
rs655415	XP_293366	Y	S	YS	possibly damaging
rs655444	XP_497999	R	K	RK	benign
rs656195	XP_290517	P	R	PR	possibly damaging
rs656870	XP_034717	C	R	CR	possibly damaging
rs657363	NP_006461	S	R	SR	benign
rs657541	NP_005122	N	H	NH	benign
rs657672	XP_372668	V	M	VM	benign
rs657723	XP_372668	N	S	NS	benign
rs658149	XP_496386	M	K	MK	probably damaging
rs658160	XP_496386	R	H	RH	possibly damaging
rs658635	XP_034717	F	S	FS	benign
rs659040	NP_689647	H	Y	HY	benign
rs659243	NP_612149	S	N	SN	benign
rs659243	NP_000042	S	N	SN	benign
rs659289	XP_496139	V	A	VA	benign
rs659436	NP_778238	P	L	PL	benign
rs659473	XP_377265	T	A	TA	benign
rs659543	NP_065826	T	P	TP	benign
rs660118	NP_005137	G	A	GA	benign
rs660339	NP_003346	A	V	AV	benign
rs660405	NP_037421	L	H	LH	benign
rs660405	XP_498425	R	L	RL	benign
rs660539	NP_149044	E	K	EK	benign
rs661301	XP_035371	S	P	SP	benign
rs662386	NP_703144	V	A	VA	possibly damaging
rs662471	NP_005550	M	V	MV	possibly damaging
rs662515	NP_075563	A	P	AP	benign
rs662515	NP_613074	P	A	PA	benign
rs663048	NP_066938	M	I	MI	possibly damaging
rs663227	NP_061847	Y	H	YH	possibly damaging
rs663606	NP_061847	M	T	MT	benign
rs663824	NP_689711	N	D	ND	benign
rs664031	NP_061847	C	R	CR	probably damaging
rs664226	NP_001658	A	V	AV	benign
rs664788	XP_499223	D	G	DG	possibly damaging

rs665230	NP_006061	I	S	IS	benign
rs665268	NP_937847	Q	R	QR	benign
rs665268	NP_937848	Q	R	QR	benign
rs665268	NP_733752	Q	R	QR	benign
rs665278	NP_076984	N	S	NS	benign
rs665470	NP_258259	E	K	EK	benign
rs665522	NP_258259	V	I	VI	benign
rs665648	NP_116743	G	S	GS	benign
rs665653	NP_653266	E	G	EG	probably damaging
rs666590	NP_055033	H	R	HR	benign
rs667782	NP_659451	C	R	CR	probably damaging
rs667817	NP_002507	T	S	TS	benign
rs667843	NP_002507	D	V	DV	probably damaging
rs668182	XP_497472	S	T	ST	benign
rs668313	NP_778253	R	Q	RQ	benign
rs668556	NP_149033	S	T	ST	benign
rs668556	NP_036222	S	T	ST	benign
rs669694	NP_079504	Q	E	QE	benign
rs669884	NP_000370	T	K	TK	probably damaging
rs670519	XP_497335	V	A	VA	benign
rs670573	NP_114403	W	R	WR	probably damaging
rs670741	NP_778223	D	E	DE	benign
rs670945	XP_497335	P	T	PT	possibly damaging
rs671138	NP_073588	T	N	TN	benign
rs671287	XP_376965	Q	R	QR	benign
rs671329	NP_647537	R	S	RS	possibly damaging
rs671871	NP_005550	I	T	IT	benign
rs671942	XP_113962	K	Q	KQ	benign
rs672346	NP_001704	F	L	FL	benign
rs672347	NP_001704	F	C	FC	probably damaging
rs672762	NP_065091	N	S	NS	benign
rs672924	NP_060417	V	L	VL	benign
rs673305	XP_372891	H	Q	HQ	benign
rs673918	NP_002994	P	T	PT	benign
rs673951	NP_443134	I	V	IV	benign
rs675815	NP_005829	S	N	SN	benign
rs675815	NP_964011	S	N	SN	benign
rs676210	NP_000375	P	L	PL	probably damaging
rs676314	NP_004842	I	T	IT	benign
rs676404	NP_808219	L	V	LV	benign
rs676419	NP_055159	A	T	AT	benign
rs676770	NP_808219	Q	R	QR	benign
rs676814	NP_115668	S	P	SP	benign
rs676823	NP_808219	F	L	FL	benign
rs676913	NP_997281	I	T	IT	probably damaging
rs677220	NP_115668	T	A	TA	benign

rs677688	NP_060909	V	L	VL	benign
rs678084	NP_079184	A	S	AS	benign
rs678238	NP_065826	V	I	VI	benign
rs678560	NP_060417	M	V	MV	possibly damaging
rs678876	NP_006855	R	Q	RQ	benign
rs678892	NP_004846	L	W	LW	possibly damaging
rs679361	XP_497714	G	S	GS	benign
rs679620	NP_002413	K	E	KE	benign
rs679899	NP_000375	A	V	AV	benign
rs680055	NP_073731	P	A	PA	probably damaging
rs680055	NP_476437	P	A	PA	probably damaging
rs680055	NP_476436	P	A	PA	probably damaging
rs680728	NP_149033	S	C	SC	benign
rs680728	NP_036222	S	C	SC	benign
rs680775	XP_041018	C	R	CR	benign
rs680891	XP_498425	L	P	LP	benign
rs680891	NP_037421	P	L	PL	benign
rs681518	NP_000042	Q	P	QP	possibly damaging
rs681518	NP_612149	Q	P	QP	probably damaging
rs681529	XP_371630	G	R	GR	possibly damaging
rs681982	XP_374949	L	F	LF	possibly damaging
rs682327	NP_001646	F	L	FL	possibly damaging
rs682351	NP_149033	K	R	KR	benign
rs682351	NP_036222	K	R	KR	benign
rs682632	NP_000450	P	Q	PQ	possibly damaging
rs683369	NP_694857	L	F	LF	benign
rs683369	NP_003048	L	F	LF	benign
rs683733	NP_005550	G	V	GV	possibly damaging
rs684245	NP_068599	K	Q	KQ	benign
rs684399	XP_047550	S	P	SP	benign
rs684535	NP_058648	I	N	IN	benign
rs684900	XP_047550	T	A	TA	benign
rs685082	NP_006831	H	N	HN	benign
rs685497	NP_006831	A	T	AT	benign
rs685523	NP_620595	A	V	AV	benign
rs685523	NP_620594	A	V	AV	benign
rs685523	NP_620596	V	A	VA	benign
rs685688	XP_047554	E	D	ED	benign
rs685688	XP_047550	E	D	ED	benign
rs685870	NP_115627	W	R	WR	probably damaging
rs685967	NP_955360	T	A	TA	benign
rs686163	XP_497696	R	G	RG	probably damaging
rs686364	NP_955360	S	P	SP	probably damaging
rs687485	NP_055327	K	T	KT	possibly damaging
rs687885	NP_055327	L	V	LV	benign
rs688534	XP_496291	S	T	ST	possibly damaging

rs688906	XP_370652	K	R	KR	benign
rs689647	NP_005648	G	S	GS	benign
rs689706	NP_942154	V	A	VA	benign
rs689759	XP_496150	P	L	PL	possibly damaging
rs689759	XP_496152	P	L	PL	possibly damaging
rs689942	NP_942154	K	N	KN	benign
rs690346	NP_877435	V	M	VM	benign
rs690514	NP_004101	Q	R	QR	benign
rs690514	NP_077728	Q	R	QR	benign
rs692190	NP_004658	A	T	AT	benign
rs692243	NP_059127	P	A	PA	possibly damaging
rs693598	NP_005924	Q	P	QP	possibly damaging
rs693777	NP_006304	T	P	TP	possibly damaging
rs694328	NP_000181	Q	H	QH	possibly damaging
rs695633	NP_115997	I	V	IV	benign
rs696097	XP_057040	H	R	HR	benign
rs696217	NP_057446	L	M	LM	benign
rs696698	XP_371259	R	H	RH	benign
rs696708	NP_004527	L	W	LW	possibly damaging
rs696723	NP_009054	G	R	GR	probably damaging
rs696763	NP_001728	D	Y	DY	probably damaging
rs697636	NP_872414	F	Y	FY	benign
rs697742	NP_005505	R	Q	RQ	benign
rs698025	NP_057735	G	S	GS	benign
rs698064	XP_375308	E	K	EK	benign
rs698577	NP_005786	Y	N	YN	possibly damaging
rs698673	NP_689829	R	K	RK	benign
rs698761	NP_000332	I	M	IM	benign
rs699512	NP_000703	A	T	AT	benign
rs699596	XP_056681	G	R	GR	probably damaging
rs699597	XP_056681	A	D	AD	possibly damaging
rs699638	NP_689653	S	A	SA	benign
rs699664	NP_000812	R	Q	RQ	benign
rs699738	NP_001758	Q	H	QH	probably damaging
rs700233	NP_001728	R	W	RW	possibly damaging
rs700241	NP_001334	T	I	TI	benign
rs700323	NP_002760	E	K	EK	benign
rs700519	NP_000094	R	S	RS	benign
rs700519	NP_112503	R	S	RS	benign
rs700785	NP_064509	E	K	EK	benign
rs700866	XP_496581	A	T	AT	benign
rs701753	NP_000087	D	E	DE	benign
rs701828	NP_072049	A	T	AT	benign
rs701829	NP_002115	V	M	VM	benign
rs701830	NP_072049	Q	H	QH	benign
rs701865	NP_006195	S	T	ST	benign

rs702017	NP_006587	R	I	RI	possibly damaging
rs702017	NP_955452	R	I	RI	possibly damaging
rs702372	NP_563614	C	Y	CY	probably damaging
rs702386	NP_061753	R	S	RS	benign
rs702689	XP_042066	D	N	DN	benign
rs703903	NP_002541	Q	R	QR	benign
rs704326	NP_000712	A	T	AT	benign
rs704793	NP_056477	R	H	RH	benign
rs704959	NP_665698	K	R	KR	benign
rs705279	NP_006483	R	K	RK	benign
rs705754	XP_497729	E	A	EA	benign
rs706107	NP_055286	V	I	VI	benign
rs706479	NP_000553	T	I	TI	benign
rs706761	NP_056507	I	T	IT	benign
rs706764	XP_211460	A	T	AT	benign
rs706846	NP_076427	P	S	PS	possibly damaging
rs706956	XP_498128	R	S	RS	possibly damaging
rs707157	NP_003109	D	N	DN	possibly damaging
rs707394	XP_371925	K	N	KN	benign
rs707394	NP_775808	K	N	KN	benign
rs707554	XP_371401	V	A	VA	benign
rs707555	NP_002582	L	V	LV	benign
rs707744	NP_008836	E	Q	EQ	benign
rs707745	NP_008836	T	P	TP	benign
rs707746	NP_112536	Q	H	QH	benign
rs707748	NP_008836	A	V	AV	benign
rs707749	NP_008836	R	Q	RQ	benign
rs707749	NP_002774	R	Q	RQ	benign
rs707908	NP_002118	E	K	EK	benign
rs707909	NP_002107	V	M	VM	benign
rs707910	NP_002107	R	K	RK	benign
rs707912	NP_005505	E	A	EA	benign
rs707936	NP_079534	Y	H	YH	benign
rs707949	NP_002113	F	L	FL	possibly damaging
rs707950	NP_002113	Q	H	QH	benign
rs707952	NP_002113	T	I	TI	benign
rs707955	NP_002116	D	H	DH	benign
rs707956	NP_072049	F	I	FI	benign
rs707957	NP_072049	F	Y	FY	benign
rs707958	NP_002112	A	D	AD	benign
rs707959	NP_072049	N	T	NT	benign
rs707962	NP_002113	I	S	IS	benign
rs707963	NP_002113	D	E	DE	benign
rs708567	NP_703190	S	L	SL	benign
rs708567	NP_703191	S	L	SL	benign
rs708567	NP_703192	S	L	SL	benign



rs708567	NP_116121	S	L	SL	benign
rs708776	NP_002212	Q	P	QP	benign
rs709012	NP_075556	H	P	HP	benign
rs709035	NP_060946	D	N	DN	benign
rs709036	NP_060946	A	V	AV	benign
rs709037	NP_060946	G	S	GS	benign
rs709055	NP_005505	D	N	DN	benign
rs709060	XP_376720	S	P	SP	probably damaging
rs709061	XP_376720	Q	R	QR	benign
rs709065	XP_374581	D	E	DE	benign
rs709210	NP_003764	S	A	SA	benign
rs709210	NP_149348	S	A	SA	benign
rs709564	NP_115989	R	Q	RQ	benign
rs709682	NP_055862	S	N	SN	benign
rs709683	NP_055862	S	T	ST	benign
rs709783	NP_660155	R	H	RH	benign
rs709786	XP_086186	V	I	VI	benign
rs709932	NP_000286	R	H	RH	benign
rs710174	NP_036311	I	M	IM	benign
rs710187	NP_055106	R	C	RC	probably damaging
rs710193	NP_003923	M	I	MI	benign
rs711177	NP_055928	E	Q	EQ	benign
rs711306	NP_009086	R	S	RS	benign
rs711316	NP_067653	P	H	PH	probably damaging
rs711872	XP_372191	Y	N	YN	possibly damaging
rs711873	XP_372191	K	M	KM	possibly damaging
rs711875	XP_372191	Q	E	QE	benign
rs711876	XP_372191	R	C	RC	possibly damaging
rs711877	XP_372191	K	E	KE	benign
rs712021	NP_954630	G	S	GS	benign
rs712021	NP_110381	S	G	SG	possibly damaging
rs712270	NP_057323	Y	F	YF	benign
rs712665	NP_005074	S	G	SG	possibly damaging
rs712701	NP_006184	P	H	PH	probably damaging
rs712896	NP_055654	Q	K	QK	benign
rs712965	NP_073210	A	V	AV	benign
rs713031	NP_005505	S	T	ST	benign
rs713598	NP_789787	A	P	AP	possibly damaging
rs713998	NP_690054	E	G	EG	benign
rs713998	NP_690055	E	G	EG	benign
rs713998	NP_690056	E	G	EG	benign
rs713998	NP_071364	E	G	EG	benign
rs714106	NP_291021	T	N	TN	benign
rs714181	NP_115820	L	P	LP	probably damaging
rs714368	NP_149116	H	R	HR	possibly damaging
rs714774	NP_055680	E	Q	EQ	benign

rs714923	NP_005898	K	E	KE	possibly damaging
rs715146	NP_689853	R	H	RH	benign
rs715747	NP_060899	I	M	IM	benign
rs715748	NP_060899	G	S	GS	benign
rs716861	XP_497659	P	L	PL	benign
rs719705	NP_004571	T	P	TP	probably damaging
rs719705	NP_899057	T	P	TP	probably damaging
rs719705	NP_899058	T	P	TP	probably damaging
rs719705	NP_899059	T	P	TP	probably damaging
rs721005	NP_113664	T	S	TS	benign
rs721710	XP_058513	V	E	VE	benign
rs721957	XP_496218	C	Y	CY	probably damaging
rs721958	XP_496218	E	D	ED	possibly damaging
rs722896	NP_775806	R	H	RH	benign
rs723044	NP_689596	S	P	SP	benign
rs723077	NP_060338	L	M	LM	benign
rs723685	NP_149116	V	A	VA	benign
rs723874	NP_066300	L	V	LV	benign
rs724558	NP_005015	I	T	IT	benign
rs724665	NP_061331	T	I	TI	possibly damaging
rs725143	NP_067078	E	K	EK	possibly damaging
rs725185	NP_003594	A	V	AV	benign
rs725185	NP_066547	A	V	AV	benign
rs725847	NP_112196	E	Q	EQ	benign
rs726070	NP_056472	D	N	DN	benign
rs726070	NP_775099	D	N	DN	benign
rs726684	NP_054723	L	R	LR	possibly damaging
rs726684	NP_114477	L	R	LR	possibly damaging
rs726817	NP_660289	R	H	RH	benign
rs727162	NP_997056	S	R	SR	possibly damaging
rs727162	NP_997055	S	R	SR	possibly damaging
rs727913	XP_088491	T	A	TA	probably damaging
rs728619	NP_000170	Y	S	YS	probably damaging
rs729184	XP_040910	Q	R	QR	benign
rs729421	NP_878256	T	A	TA	benign
rs729630	NP_597725	S	F	SF	benign
rs729864	XP_085634	E	Q	EQ	benign
rs729940	NP_001266	R	W	RW	probably damaging
rs730152	NP_000205	S	R	SR	benign
rs730319	NP_001447	V	A	VA	possibly damaging
rs730373	NP_113632	V	G	VG	possibly damaging
rs730469	NP_667338	T	A	TA	benign
rs730882	NP_689825	R	C	RC	possibly damaging
rs731170	NP_006838	G	D	GD	benign
rs731506	NP_742053	V	G	VG	probably damaging
rs731506	NP_000229	V	G	VG	probably damaging

rs732609	NP_000538	T	P	TP	benign
rs732609	NP_783650	T	P	TP	benign
rs732609	NP_783651	T	P	TP	benign
rs732609	NP_783652	T	P	TP	benign
rs732609	NP_783653	T	P	TP	benign
rs732774	NP_000044	K	R	KR	benign
rs733574	NP_036343	W	G	WG	possibly damaging
rs733731	NP_443122	R	Q	RQ	benign
rs733743	NP_077819	R	T	RT	possibly damaging
rs734312	NP_005996	R	H	RH	possibly damaging
rs734411	NP_149363	R	H	RH	benign
rs734784	NP_002242	I	V	IV	benign
rs734824	NP_877417	G	W	GW	possibly damaging
rs734852	NP_005272	R	H	RH	benign
rs735295	NP_115734	M	T	MT	benign
rs735482	NP_036231	K	T	KT	benign
rs735623	NP_002499	V	G	VG	probably damaging
rs735911	NP_892018	S	N	SN	benign
rs735943	NP_569082	H	R	HR	benign
rs735943	NP_003677	H	R	HR	probably damaging
rs736118	NP_071764	M	I	MI	benign
rs736776	XP_497598	T	I	TI	benign
rs737111	NP_008966	V	G	VG	benign
rs737700	NP_631909	R	Q	RQ	benign
rs737976	NP_003669	I	V	IV	benign
rs738409	NP_079501	I	M	IM	benign
rs738786	NP_705843	Q	R	QR	benign
rs738826	XP_496521	R	C	RC	possibly damaging
rs739231	NP_620169	W	R	WR	probably damaging
rs739320	NP_061986	L	P	LP	probably damaging
rs739869	NP_775756	S	R	SR	benign
rs739999	NP_899180	M	T	MT	possibly damaging
rs740109	XP_376720	R	W	RW	probably damaging
rs740842	NP_060643	T	A	TA	benign
rs741006	NP_114034	R	K	RK	benign
rs741006	NP_002365	R	K	RK	benign
rs741064	NP_060957	T	A	TA	benign
rs741326	NP_056532	A	V	AV	benign
rs741446	XP_375594	P	L	PL	benign
rs741842	XP_370765	A	T	AT	benign
rs742491	NP_775832	P	R	PR	probably damaging
rs742493	NP_775832	G	R	GR	possibly damaging
rs742710	NP_001810	P	L	PL	probably damaging
rs742711	NP_001810	R	H	RH	benign
rs742843	NP_006383	T	I	TI	benign
rs743269	NP_003180	G	R	GR	possibly damaging

rs743346	NP_006022	R	H	RH	benign
rs743488	NP_003298	R	Q	RQ	benign
rs743515	NP_003926	S	P	SP	benign
rs743580	NP_150253	G	S	GS	benign
rs743580	NP_150242	S	G	SG	benign
rs743581	NP_150253	V	G	VG	benign
rs743581	NP_150242	G	V	GV	possibly damaging
rs743582	NP_150253	A	P	AP	benign
rs743582	NP_150242	A	P	AP	benign
rs743616	NP_000478	T	S	TS	benign
rs743855	NP_006021	E	K	EK	benign
rs743920	NP_597712	A	G	AG	benign
rs743923	NP_443193	V	M	VM	benign
rs744025	XP_496351	R	Q	RQ	benign
rs744050	NP_938083	S	R	SR	probably damaging
rs744087	NP_115542	E	A	EA	benign
rs744087	NP_569055	E	A	EA	benign
rs744224	NP_839943	R	C	RC	possibly damaging
rs744282	NP_002011	R	C	RC	benign
rs744282	NP_891555	R	C	RC	benign
rs745044	XP_376720	R	C	RC	probably damaging
rs745142	NP_060411	Q	H	QH	benign
rs745143	NP_060411	F	L	FL	benign
rs745191	NP_009131	G	V	GV	probably damaging
rs745191	NP_006729	G	V	GV	probably damaging
rs745211	NP_877417	L	M	LM	benign
rs745400	XP_029438	R	K	RK	benign
rs745835	NP_000060	E	V	EV	benign
rs745894	NP_079057	C	F	CF	probably damaging
rs746207	NP_003467	A	T	AT	benign
rs746316	NP_008920	M	V	MV	benign
rs746748	NP_056415	A	T	AT	benign
rs746924	NP_008994	R	G	RG	probably damaging
rs747300	NP_009141	V	I	VI	benign
rs747890	XP_370696	E	Q	EQ	benign
rs748338	NP_079081	V	M	VM	benign
rs748358	XP_290629	T	M	TM	benign
rs748870	NP_006546	V	G	VG	benign
rs749071	XP_495949	T	I	TI	benign
rs749670	NP_055514	G	E	GE	benign
rs749902	NP_079464	C	Y	CY	probably damaging
rs751019	NP_775267	K	T	KT	benign
rs751019	NP_775268	K	T	KT	benign
rs751141	NP_001970	R	Q	RQ	probably damaging
rs751557	NP_001844	A	E	AE	benign
rs751747	NP_075383	E	K	EK	benign

rs751793	XP_291085	P	L	PL	probably damaging
rs751852	NP_003180	A	T	AT	benign
rs752329	XP_497739	R	Q	RQ	benign
rs752331	XP_497739	E	K	EK	benign
rs753034	NP_065185	V	G	VG	probably damaging
rs753381	NP_002651	I	T	IT	benign
rs753381	NP_877963	I	T	IT	benign
rs753856	NP_002146	D	E	DE	benign
rs754093	NP_765975	C	G	CG	probably damaging
rs754093	NP_765977	C	G	CG	probably damaging
rs754093	NP_765976	C	G	CG	probably damaging
rs754382	XP_373413	L	S	LS	benign
rs754511	XP_371398	F	Y	FY	benign
rs754554	NP_004394	P	T	PT	benign
rs754615	NP_001741	C	S	CS	benign
rs754615	NP_775083	C	S	CS	benign
rs754615	NP_775084	C	S	CS	benign
rs754615	NP_775085	C	S	CS	benign
rs755078	NP_056011	S	Y	SY	possibly damaging
rs755237	NP_056308	G	S	GS	benign
rs755246	XP_495877	D	Y	DY	probably damaging
rs755708	NP_114034	V	F	VF	benign
rs755708	NP_002365	V	F	VF	benign
rs755793	NP_075418	M	T	MT	benign
rs755793	NP_075258	M	T	MT	benign
rs755793	NP_075259	M	T	MT	benign
rs755793	NP_075260	M	T	MT	benign
rs755793	NP_075261	M	T	MT	benign
rs755793	NP_075262	M	T	MT	benign
rs755793	NP_075263	M	T	MT	benign
rs755793	NP_075265	M	T	MT	benign
rs755793	NP_075417	M	T	MT	benign
rs755793	NP_075419	M	T	MT	benign
rs755793	NP_075420	M	T	MT	benign
rs755793	NP_075264	M	T	MT	benign
rs755793	NP_000132	M	T	MT	benign
rs755922	NP_000444	V	E	VE	benign
rs757081	NP_005004	Q	E	QE	benign
rs757110	NP_000343	S	A	SA	benign
rs757259	NP_619645	E	K	EK	benign
rs757262	NP_619645	T	M	TM	benign
rs757660	NP_036561	R	K	RK	benign
rs757978	XP_376193	T	I	TI	possibly damaging
rs758037	NP_689763	C	R	CR	benign
rs759458	NP_003029	V	I	VI	benign
rs759575	XP_496493	R	Q	RQ	benign

rs759593	NP_219494	T	A	TA	benign
rs759611	NP_699165	D	E	DE	benign
rs759611	NP_878315	D	E	DE	benign
rs759612	NP_699165	V	L	VL	benign
rs759612	NP_878315	V	L	VL	benign
rs760073	NP_005689	L	R	LR	possibly damaging
rs760077	NP_002446	T	S	TS	benign
rs760077	NP_942584	T	S	TS	benign
rs760134	NP_002265	A	G	AG	benign
rs760134	NP_705694	A	G	AG	benign
rs760242	NP_001351	G	S	GS	benign
rs760357	NP_036599	M	V	MV	benign
rs760718	NP_079231	F	L	FL	benign
rs760998	XP_028810	E	K	EK	benign
rs762063	XP_290615	V	I	VI	benign
rs762563	NP_000093	C	W	CW	probably damaging
rs762566	NP_115925	E	Q	EQ	benign
rs762585	NP_000181	L	M	LM	benign
rs762679	NP_877423	L	M	LM	benign
rs762679	NP_005905	L	M	LM	benign
rs762739	NP_647594	E	K	EK	benign
rs762739	NP_647595	E	K	EK	benign
rs762739	NP_647596	E	K	EK	benign
rs762739	NP_647597	E	K	EK	benign
rs762739	NP_647598	E	K	EK	benign
rs762739	NP_647599	E	K	EK	benign
rs762739	NP_647600	E	K	EK	benign
rs762739	NP_647601	E	K	EK	benign
rs762739	NP_004296	E	K	EK	benign
rs762739	NP_647593	E	K	EK	benign
rs763361	NP_006557	G	S	GS	benign
rs763414	NP_150093	Y	S	YS	probably damaging
rs763780	NP_443104	H	R	HR	probably damaging
rs763780	NP_758846	H	R	HR	probably damaging
rs764205	NP_940908	L	M	LM	benign
rs764242	NP_071761	Q	H	QH	possibly damaging
rs764264	NP_523239	H	R	HR	probably damaging
rs764535	NP_003259	T	I	TI	benign
rs764941	NP_003473	Q	H	QH	benign
rs764942	NP_003473	Q	H	QH	benign
rs765206	NP_803491	Y	C	YC	probably damaging
rs765526	NP_619639	D	Y	DY	probably damaging
rs765526	NP_733842	D	Y	DY	probably damaging
rs765593	NP_079404	Q	H	QH	benign
rs765746	NP_919306	Y	C	YC	possibly damaging
rs766091	XP_294077	P	L	PL	probably damaging

rs766173	NP_000050	N	H	NH	possibly damaging
rs766874	NP_000483	S	F	SF	probably damaging
rs766981	NP_891847	P	A	PA	possibly damaging
rs766981	NP_061152	P	A	PA	possibly damaging
rs767833	NP_689580	G	R	GR	benign
rs767931	NP_694943	S	Y	SY	benign
rs768436	NP_003137	L	V	LV	benign
rs768994	NP_114130	M	T	MT	possibly damaging
rs769020	NP_004387	R	K	RK	benign
rs769188	NP_001500	L	V	LV	benign
rs769193	NP_002425	A	V	AV	benign
rs769194	NP_000836	S	C	SC	benign
rs769202	NP_000836	F	C	FC	benign
rs769242	NP_001228	V	I	VI	benign
rs769403	NP_000808	V	G	VG	possibly damaging
rs769414	NP_002476	N	S	NS	benign
rs769416	NP_002476	Q	K	QK	benign
rs769420	NP_002476	P	L	PL	probably damaging
rs769423	NP_002539	Q	R	QR	benign
rs769427	NP_055380	P	S	PS	possibly damaging
rs769431	NP_003545	C	R	CR	possibly damaging
rs769432	NP_002542	L	F	LF	benign
rs769432	NP_036505	L	F	LF	benign
rs769443	NP_001988	V	M	VM	benign
rs769452	NP_000032	L	P	LP	benign
rs769455	NP_000032	R	C	RC	probably damaging
rs769604	NP_940972	A	G	AG	benign
rs770087	NP_001937	S	A	SA	benign
rs773123	NP_001973	S	C	SC	benign
rs773902	NP_003941	T	A	TA	benign
rs773930	XP_211460	Q	E	QE	benign
rs774027	NP_003911	L	I	LI	benign
rs774047	NP_003911	Q	R	QR	benign
rs774895	NP_597996	V	L	VL	benign
rs774896	NP_001469	L	V	LV	benign
rs775380	NP_061753	E	D	ED	benign
rs775881	NP_631915	G	E	GE	benign
rs775882	NP_631915	V	I	VI	benign
rs776755	NP_443098	N	S	NS	benign
rs776755	NP_640329	N	S	NS	benign
rs776755	NP_644669	N	S	NS	benign
rs778805	NP_000141	P	S	PS	possibly damaging
rs778970	NP_002025	P	L	PL	probably damaging
rs778984	NP_002025	R	H	RH	benign
rs778986	NP_000140	T	M	TM	benign
rs780668	NP_060814	S	F	SF	possibly damaging

rs781831	NP_055928	I	V	IV	benign
rs781852	NP_055928	L	P	LP	benign
rs781861	NP_055928	A	T	AT	benign
rs782572	NP_149100	V	I	VI	benign
rs783396	XP_166300	E	A	EA	benign
rs783833	NP_071403	E	K	EK	benign
rs783834	NP_071403	D	N	DN	possibly damaging
rs783835	NP_071403	A	V	AV	benign
rs784133	XP_496824	L	P	LP	benign
rs784625	NP_055386	R	H	RH	benign
rs785467	NP_003620	N	K	NK	benign
rs787795	NP_055568	K	R	KR	benign
rs788795	NP_067649	A	V	AV	benign
rs788908	NP_055058	K	R	KR	benign
rs789247	XP_371663	V	L	VL	benign
rs790287	XP_294590	S	R	SR	possibly damaging
rs793274	NP_078956	I	V	IV	benign
rs794001	NP_060647	D	N	DN	benign
rs794362	XP_374460	R	H	RH	benign
rs796287	NP_005201	L	I	LI	benign
rs798626	XP_372233	P	S	PS	probably damaging
rs798752	NP_612394	L	I	LI	benign
rs798911	NP_079189	K	T	KT	benign
rs799193	NP_689568	I	V	IV	benign
rs799833	NP_061754	R	S	RS	probably damaging
rs799834	NP_061754	D	E	DE	benign
rs799917	NP_009230	P	L	PL	benign
rs799917	NP_009231	P	L	PL	benign
rs799917	NP_009232	P	L	PL	benign
rs799917	NP_009233	P	L	PL	benign
rs799917	NP_009228	P	L	PL	benign
rs800292	NP_000177	V	I	VI	benign
rs801205	XP_496889	G	V	GV	probably damaging
rs801840	NP_857597	F	I	FI	benign
rs801841	NP_857597	V	I	VI	benign
rs803064	NP_001904	A	T	AT	benign
rs803064	NP_852477	A	T	AT	benign
rs805267	NP_067044	D	N	DN	benign
rs805295	NP_067069	P	S	PS	benign
rs805408	NP_055429	S	T	ST	benign
rs805657	NP_055535	C	Y	CY	probably damaging
rs805697	NP_000485	G	R	GR	probably damaging
rs805697	NP_570134	G	R	GR	probably damaging
rs805698	NP_000485	S	G	SG	benign
rs805698	NP_570134	S	G	SG	benign
rs805708	NP_000485	T	M	TM	benign



rs805708	NP_570134	T	M	TM	benign
rs806052	NP_689842	P	S	PS	benign
rs807037	NP_112191	G	A	GA	benign
rs807534	XP_376472	Y	C	YC	probably damaging
rs807757	XP_497791	G	R	GR	possibly damaging
rs808119	NP_000207	I	V	IV	benign
rs809810	NP_005712	E	K	EK	possibly damaging
rs810205	NP_001469	G	R	GR	possibly damaging
rs811044	NP_004512	G	C	GC	probably damaging
rs811605	XP_370727	L	F	LF	possibly damaging
rs811925	NP_001189	D	E	DE	benign
rs811925	NP_878911	D	E	DE	benign
rs812936	NP_000140	W	R	WR	probably damaging
rs812990	NP_116106	S	F	SF	possibly damaging
rs814051	NP_219480	L	F	LF	benign
rs814192	NP_005712	D	N	DN	possibly damaging
rs814501	NP_079489	G	S	GS	benign
rs814501	NP_066022	G	S	GS	benign
rs814628	NP_004181	T	A	TA	possibly damaging
rs815804	NP_775920	L	M	LM	benign
rs815819	XP_372118	G	R	GR	benign
rs816142	NP_064506	A	S	AS	benign
rs817326	NP_065764	M	V	MV	benign
rs817443	XP_086186	V	I	VI	benign
rs817456	XP_086186	E	G	EG	possibly damaging
rs818711	NP_060158	Q	H	QH	benign
rs818817	NP_004794	G	S	GS	benign
rs818818	NP_004794	M	V	MV	benign
rs819085	NP_694996	D	G	DG	possibly damaging
rs819850	XP_371672	S	N	SN	benign
rs820085	NP_056060	S	L	SL	possibly damaging
rs820142	XP_496245	A	T	AT	benign
rs820144	XP_496245	M	T	MT	benign
rs820196	NP_004250	D	G	DG	benign
rs820878	NP_000512	S	L	SL	possibly damaging
rs821314	NP_620133	G	R	GR	possibly damaging
rs821572	NP_115545	H	R	HR	probably damaging
rs821616	NP_061132	C	S	CS	benign
rs822431	NP_653303	S	A	SA	benign
rs822442	XP_371320	N	K	NK	benign
rs822522	NP_689493	H	Q	HQ	possibly damaging
rs822730	NP_852130	R	C	RC	benign
rs826058	NP_056346	Q	R	QR	benign
rs827528	NP_003497	M	V	MV	possibly damaging
rs830844	XP_497987	R	I	RI	possibly damaging
rs830845	XP_497987	T	M	TM	benign

rs830846	XP_497987	A	G	AG	benign
rs830848	XP_497987	S	C	SC	probably damaging
rs830850	XP_497987	G	A	GA	benign
rs830851	XP_497987	T	M	TM	benign
rs830852	XP_497987	S	C	SC	probably damaging
rs831510	NP_775829	H	Q	HQ	possibly damaging
rs831997	XP_496581	M	R	MR	benign
rs831999	XP_496581	D	G	DG	possibly damaging
rs832032	XP_116036	K	N	KN	benign
rs832156	XP_496428	D	E	DE	benign
rs832352	XP_496581	W	R	WR	probably damaging
rs832357	XP_496581	Q	R	QR	benign
rs832373	XP_496581	K	T	KT	benign
rs832582	XP_042066	V	I	VI	benign
rs833191	XP_496391	M	I	MI	probably damaging
rs833819	NP_003473	G	E	GE	possibly damaging
rs837105	NP_036514	L	M	LM	benign
rs837550	NP_060309	M	I	MI	benign
rs838827	NP_003631	R	Q	RQ	benign
rs840275	XP_290670	C	R	CR	benign
rs840276	XP_290670	R	P	RP	benign
rs840277	XP_290670	L	I	LI	benign
rs842274	NP_612390	S	A	SA	benign
rs842381	NP_055931	P	S	PS	probably damaging
rs843358	NP_003898	V	I	VI	benign
rs843704	XP_371494	G	S	GS	benign
rs843971	NP_443123	G	S	GS	benign
rs846179	XP_377828	R	H	RH	benign
rs846266	NP_000159	A	T	AT	benign
rs848208	NP_055816	A	V	AV	benign
rs848209	NP_055816	L	P	LP	benign
rs848210	NP_055816	N	D	ND	benign
rs849541	NP_003863	K	R	KR	benign
rs849541	NP_958436	K	R	KR	benign
rs849541	NP_957718	K	R	KR	benign
rs849541	NP_061004	K	R	KR	benign
rs849541	NP_957719	K	R	KR	benign
rs849541	NP_957716	K	R	KR	benign
rs850932	NP_003970	S	G	SG	benign
rs853678	NP_665916	T	S	TS	benign
rs853684	NP_665916	K	R	KR	benign
rs854560	NP_000437	L	M	LM	benign
rs854625	NP_116741	I	T	IT	possibly damaging
rs854625	NP_116740	T	I	TI	possibly damaging
rs854777	NP_057323	C	R	CR	possibly damaging
rs855314	NP_002624	I	V	IV	benign

rs855581	NP_002762	A	T	AT	benign
rs855677	XP_376720	V	M	VM	benign
rs855691	XP_376720	S	G	SG	benign
rs855692	XP_376720	P	Q	PQ	benign
rs855693	XP_376720	P	A	PA	probably damaging
rs855791	NP_705837	V	A	VA	benign
rs857685	XP_060953	N	T	NT	probably damaging
rs857824	XP_060957	R	H	RH	probably damaging
rs857825	XP_060957	Q	R	QR	possibly damaging
rs857826	XP_060957	F	L	FL	benign
rs857827	XP_060957	I	T	IT	benign
rs857828	XP_060957	L	F	LF	benign
rs859037	XP_497758	G	S	GS	benign
rs859098	NP_689582	I	V	IV	benign
rs859146	NP_060742	E	A	EA	benign
rs859208	NP_003680	Q	H	QH	benign
rs859210	NP_003680	E	K	EK	possibly damaging
rs859398	NP_003276	V	I	VI	benign
rs859427	NP_003276	R	K	RK	benign
rs860170	NP_058641	R	H	RH	possibly damaging
rs860213	NP_114127	R	Q	RQ	benign
rs861539	NP_005423	T	M	TM	benign
rs861853	NP_689825	R	W	RW	possibly damaging
rs861854	NP_689825	R	C	RC	possibly damaging
rs862432	NP_001362	T	N	TN	possibly damaging
rs862708	NP_065708	L	P	LP	benign
rs862709	NP_065708	E	K	EK	benign
rs863363	XP_060952	I	T	IT	benign
rs863642	NP_078904	L	P	LP	possibly damaging
rs863980	NP_597707	A	T	AT	benign
rs864126	NP_689573	I	T	IT	benign
rs865093	NP_775760	R	W	RW	possibly damaging
rs865246	NP_005752	T	P	TP	benign
rs866051	NP_005351	L	M	LM	benign
rs866085	NP_001870	P	A	PA	probably damaging
rs866085	NP_624302	P	A	PA	probably damaging
rs866155	NP_002876	Q	H	QH	benign
rs866484	NP_005522	S	T	ST	benign
rs866677	NP_002876	L	M	LM	benign
rs866936	NP_742108	T	A	TA	benign
rs866936	NP_742111	T	A	TA	benign
rs866936	NP_742110	T	A	TA	benign
rs867186	NP_006395	S	G	SG	benign
rs867228	NP_002020	E	A	EA	possibly damaging
rs867728	NP_002298	R	L	RL	possibly damaging
rs868044	NP_001472	E	K	EK	benign

rs868167	XP_208522	P	T	PT	possibly damaging
rs868188	NP_055599	S	G	SG	benign
rs868188	NP_937879	S	G	SG	benign
rs868333	NP_004940	N	S	NS	benign
rs868333	NP_077740	N	S	NS	benign
rs868511	XP_064152	S	G	SG	benign
rs868649	NP_060610	T	A	TA	benign
rs868738	NP_006166	R	C	RC	probably damaging
rs868738	NP_932326	R	C	RC	probably damaging
rs868749	NP_065574	P	L	PL	probably damaging
rs868749	NP_066266	P	L	PL	probably damaging
rs868749	NP_066265	P	L	PL	probably damaging
rs868749	NP_066264	P	L	PL	probably damaging
rs869171	NP_057069	E	K	EK	benign
rs869457	NP_006050	P	S	PS	possibly damaging
rs869955	NP_060610	P	L	PL	probably damaging
rs870094	XP_497729	L	F	LF	benign
rs870124	NP_071397	S	P	SP	benign
rs870124	NP_955533	S	P	SP	benign
rs870849	NP_002277	T	I	TI	possibly damaging
rs870892	NP_116329	V	A	VA	benign
rs870957	NP_114412	R	G	RG	benign
rs870957	NP_835281	R	G	RG	possibly damaging
rs871134	NP_699207	E	K	EK	benign
rs871443	NP_000204	L	P	LP	benign
rs871545	NP_065778	N	S	NS	benign
rs871546	NP_065778	K	Q	KQ	benign
rs871841	NP_776089	L	P	LP	probably damaging
rs871866	XP_499216	R	G	RG	possibly damaging
rs871923	NP_057480	A	V	AV	benign
rs871990	NP_065950	M	I	MI	benign
rs872013	XP_497949	L	F	LF	benign
rs872808	NP_690603	C	G	CG	benign
rs873152	NP_002944	S	F	SF	probably damaging
rs873434	NP_060365	R	W	RW	probably damaging
rs873967	XP_371227	E	K	EK	benign
rs874100	NP_699165	A	G	AG	benign
rs874100	NP_878315	A	G	AG	benign
rs874101	NP_699165	A	G	AG	benign
rs874101	NP_878315	A	G	AG	benign
rs874556	NP_079406	I	T	IT	possibly damaging
rs874628	NP_116072	M	V	MV	benign
rs874808	NP_001362	E	G	EG	benign
rs874881	NP_036519	A	G	AG	benign
rs874889	NP_061889	M	I	MI	benign
rs875379	NP_005551	H	Y	HY	possibly damaging

rs876306	NP_004394	M	T	MT	possibly damaging
rs877386	NP_071354	G	A	GA	benign
rs877474	NP_055880	C	R	CR	probably damaging
rs877834	NP_071433	D	G	DG	benign
rs878103	XP_498013	D	Y	DY	probably damaging
rs878328	NP_695017	V	A	VA	benign
rs878328	NP_695014	V	A	VA	benign
rs878756	NP_065882	S	G	SG	benign
rs878945	NP_536803	N	K	NK	benign
rs879577	NP_055154	A	V	AV	benign
rs879634	NP_055594	A	T	AT	benign
rs879797	NP_055335	H	P	HP	benign
rs880525	NP_115871	L	M	LM	benign
rs880633	NP_001267	R	G	RG	probably damaging
rs880750	NP_940880	F	S	FS	benign
rs881118	NP_001810	N	H	NH	possibly damaging
rs881482	NP_008946	G	A	GA	possibly damaging
rs882610	NP_060378	R	H	RH	benign
rs882709	NP_055861	A	G	AG	benign
rs882961	NP_003771	S	R	SR	benign
rs883541	NP_060453	I	T	IT	possibly damaging
rs883624	NP_001558	H	P	HP	probably damaging
rs884928	NP_001472	R	Q	RQ	possibly damaging
rs885479	NP_002377	R	Q	RQ	benign
rs886016	NP_009032	M	V	MV	benign
rs886089	NP_006744	T	M	TM	benign
rs886090	NP_006744	R	W	RW	benign
rs886277	NP_055370	N	S	NS	benign
rs887241	NP_000682	S	A	SA	benign
rs887515	NP_009115	V	A	VA	benign
rs887540	NP_000657	N	S	NS	benign
rs887987	NP_653233	R	W	RW	probably damaging
rs888930	NP_064594	S	N	SN	benign
rs889057	NP_848511	V	M	VM	benign
rs889248	XP_376386	I	V	IV	benign
rs890499	NP_057726	R	K	RK	benign
rs890503	NP_057726	T	I	TI	benign
rs890757	NP_071423	T	S	TS	benign
rs890802	NP_775736	T	A	TA	benign
rs890837	NP_112600	Q	P	QP	benign
rs890850	NP_940873	Y	D	YD	probably damaging
rs890853	NP_940873	R	H	RH	benign
rs890871	NP_849159	L	P	LP	benign
rs890872	NP_849159	N	D	ND	benign
rs891174	NP_892018	S	T	ST	benign
rs891203	NP_078854	A	G	AG	benign

rs891398	NP_000733	A	T	AT	benign
rs891921	NP_003053	A	V	AV	benign
rs892055	NP_443181	I	T	IT	benign
rs892055	NP_733747	I	T	IT	benign
rs892055	NP_733748	I	T	IT	benign
rs892055	NP_733749	I	T	IT	benign
rs892145	NP_443122	M	K	MK	benign
rs892183	XP_292723	S	T	ST	benign
rs893185	NP_060378	N	H	NH	benign
rs893253	NP_055855	S	T	ST	benign
rs893254	NP_055855	L	Q	LQ	benign
rs893489	XP_497598	H	R	HR	possibly damaging
rs893601	XP_376720	S	P	SP	probably damaging
rs893602	XP_376720	R	C	RC	possibly damaging
rs894157	NP_689472	C	R	CR	probably damaging
rs894281	XP_496724	L	F	LF	benign
rs894422	NP_055321	T	P	TP	possibly damaging
rs895311	XP_498031	I	R	IR	possibly damaging
rs895311	XP_498029	R	I	RI	possibly damaging
rs895497	NP_055255	Q	R	QR	benign
rs896378	NP_056174	L	P	LP	possibly damaging
rs896950	NP_660202	A	V	AV	benign
rs897065	XP_371476	Q	R	QR	benign
rs897066	XP_371476	L	M	LM	benign
rs897416	NP_006762	S	P	SP	benign
rs897420	NP_002266	G	A	GA	benign
rs897453	NP_680478	V	I	VI	benign
rs897628	XP_372755	G	S	GS	benign
rs897738	NP_001965	D	N	DN	benign
rs897804	NP_037444	H	Q	HQ	probably damaging
rs897945	NP_078948	L	F	LF	benign
rs898861	NP_945340	V	A	VA	benign
rs899440	NP_055335	H	Y	HY	possibly damaging
rs899441	NP_055335	K	E	KE	benign
rs901363	XP_087804	P	S	PS	possibly damaging
rs901754	NP_078998	P	L	PL	probably damaging
rs902393	NP_079195	R	C	RC	possibly damaging
rs902790	NP_694547	D	E	DE	benign
rs903160	NP_060045	A	T	AT	benign
rs904383	NP_060411	C	R	CR	benign
rs904384	NP_060411	N	H	NH	benign
rs904411	NP_055134	E	Q	EQ	benign
rs904703	NP_775934	T	P	TP	benign
rs904763	NP_001119	P	H	PH	benign
rs905192	XP_499223	H	R	HR	possibly damaging
rs905768	NP_849195	G	C	GC	probably damaging

rs905871	XP_372349	I	V	IV	benign
rs906220	NP_277035	R	H	RH	benign
rs906807	NP_066552	A	V	AV	benign
rs907607	NP_612634	G	E	GE	possibly damaging
rs907608	NP_612634	R	Q	RQ	benign
rs907609	NP_612634	T	M	TM	benign
rs907679	NP_036232	A	V	AV	benign
rs908828	NP_001597	P	H	PH	probably damaging
rs908828	NP_997698	P	H	PH	probably damaging
rs909106	NP_443069	I	N	IN	benign
rs909106	NP_005689	I	N	IN	probably damaging
rs909107	NP_443069	V	D	VD	benign
rs909107	NP_005689	V	D	VD	possibly damaging
rs909150	NP_002310	E	D	ED	benign
rs909435	NP_006744	A	G	AG	benign
rs909545	NP_114155	G	R	GR	benign
rs909713	XP_210826	V	G	VG	benign
rs909746	XP_497654	S	L	SL	benign
rs910122	NP_001810	R	Q	RQ	benign
rs910270	XP_497678	R	G	RG	possibly damaging
rs910332	NP_004041	R	Q	RQ	benign
rs910397	NP_009169	V	I	VI	benign
rs910799	XP_376023	I	V	IV	benign
rs910925	NP_056536	A	G	AG	benign
rs911083	NP_114425	S	L	SL	benign
rs911973	XP_028522	D	E	DE	benign
rs912174	NP_694856	S	A	SA	benign
rs912565	NP_570970	T	M	TM	benign
rs912565	NP_079493	T	M	TM	benign
rs912566	NP_570970	D	E	DE	benign
rs912566	NP_079493	D	E	DE	benign
rs913257	NP_689494	K	E	KE	benign
rs913588	NP_055876	V	I	VI	benign
rs914358	NP_671492	L	S	LS	benign
rs914358	NP_009134	L	S	LS	benign
rs914644	NP_055626	R	K	RK	benign
rs915311	XP_496351	M	T	MT	benign
rs915645	NP_031363	G	V	GV	possibly damaging
rs915645	NP_005097	G	V	GV	possibly damaging
rs915770	NP_003674	K	R	KR	benign
rs915836	NP_065778	V	I	VI	benign
rs915877	NP_003265	I	M	IM	benign
rs915899	NP_003926	T	A	TA	benign
rs916019	NP_000206	F	S	FS	probably damaging
rs916039	NP_036505	W	L	WL	probably damaging
rs917340	XP_375660	R	H	RH	probably damaging

rs917361	NP_060003	M	I	MI	benign
rs917482	XP_064190	E	K	EK	benign
rs917535	NP_061754	R	H	RH	benign
rs918291	NP_060127	N	T	NT	benign
rs918530	NP_954854	L	F	LF	possibly damaging
rs918949	NP_072174	I	V	IV	benign
rs919364	NP_055234	A	T	AT	benign
rs919804	NP_036583	R	W	RW	possibly damaging
rs920829	NP_015628	E	K	EK	benign
rs921122	NP_060418	G	S	GS	benign
rs921135	XP_166910	D	G	DG	possibly damaging
rs921586	XP_376328	E	K	EK	benign
rs921587	XP_376328	D	A	DA	probably damaging
rs922282	NP_612408	Q	R	QR	benign
rs922697	NP_036577	P	L	PL	benign
rs922984	NP_596870	D	G	DG	benign
rs922985	NP_596870	F	L	FL	benign
rs922999	NP_694821	N	S	NS	benign
rs922999	NP_620416	N	S	NS	benign
rs923956	NP_061760	F	L	FL	benign
rs924326	XP_495930	M	T	MT	possibly damaging
rs925176	XP_290342	M	T	MT	benign
rs925368	NP_476511	N	S	NS	benign
rs925368	NP_055591	N	S	NS	benign
rs925368	NP_631940	N	S	NS	benign
rs925368	NP_476510	N	S	NS	possibly damaging
rs926103	NP_003966	S	N	SN	benign
rs926333	NP_055324	S	N	SN	benign
rs926333	NP_733795	S	N	SN	benign
rs926487	NP_056470	V	I	VI	benign
rs927340	XP_376464	T	I	TI	benign
rs927344	NP_000383	F	Y	FY	benign
rs928302	NP_115781	V	I	VI	benign
rs928302	NP_076927	V	I	VI	benign
rs928661	XP_166270	Q	P	QP	benign
rs929038	NP_061830	P	L	PL	possibly damaging
rs929044	XP_496823	T	A	TA	benign
rs929156	NP_150232	S	N	SN	benign
rs929223	NP_787078	E	K	EK	benign
rs929387	NP_000159	L	P	LP	benign
rs929843	XP_498469	L	R	LR	probably damaging
rs929949	XP_370686	N	D	ND	benign
rs930337	NP_003095	T	N	TN	possibly damaging
rs930557	NP_078872	H	D	HD	benign
rs930818	XP_291062	V	A	VA	benign
rs930871	NP_660205	A	T	AT	benign



rs931196	NP_443089	Q	H	QH	benign
rs933135	NP_006216	R	H	RH	benign
rs933703	NP_009203	T	S	TS	benign
rs934335	NP_060797	A	P	AP	possibly damaging
rs934945	NP_073728	G	E	GE	benign
rs934996	NP_000419	R	M	RM	possibly damaging
rs935172	XP_059399	H	R	HR	possibly damaging
rs935615	NP_115519	E	K	EK	benign
rs935706	XP_058997	A	T	AT	benign
rs935707	XP_058997	R	H	RH	possibly damaging
rs935939	NP_060925	D	E	DE	benign
rs936212	NP_004564	E	G	EG	benign
rs937631	NP_006175	Y	N	YN	probably damaging
rs937732	NP_689548	R	H	RH	possibly damaging
rs937733	NP_689548	P	L	PL	possibly damaging
rs937838	NP_003232	S	T	ST	benign
rs937961	NP_689810	H	R	HR	benign
rs938886	NP_009041	I	M	IM	benign
rs938952	NP_003604	S	G	SG	benign
rs939820	NP_659475	R	W	RW	probably damaging
rs939875	XP_037557	V	I	VI	benign
rs939884	NP_689885	V	G	VG	possibly damaging
rs939885	NP_689885	I	V	IV	benign
rs940389	NP_758515	R	T	RT	benign
rs940389	NP_006864	R	T	RT	benign
rs940570	NP_620149	M	I	MI	possibly damaging
rs940611	NP_473449	A	P	AP	possibly damaging
rs941048	NP_079006	M	V	MV	benign
rs941719	NP_055792	P	A	PA	possibly damaging
rs941920	XP_029353	L	P	LP	possibly damaging
rs941965	NP_005637	S	N	SN	benign
rs942132	XP_498442	P	S	PS	possibly damaging
rs942268	XP_496351	G	A	GA	benign
rs942519	NP_056219	M	T	MT	benign
rs943542	NP_056200	P	L	PL	probably damaging
rs943762	NP_149118	R	G	RG	benign
rs943876	XP_171032	M	V	MV	possibly damaging
rs943992	XP_370737	M	T	MT	benign
rs944627	NP_443171	P	L	PL	probably damaging
rs944893	NP_005551	T	M	TM	possibly damaging
rs944895	NP_005551	R	W	RW	possibly damaging
rs945384	NP_689634	G	S	GS	benign
rs945508	NP_055599	H	R	HR	possibly damaging
rs945508	NP_937879	H	R	HR	possibly damaging
rs946616	NP_002854	V	I	VI	benign
rs946724	XP_496341	I	V	IV	benign

rs946837	NP_116202	V	I	VI	benign
rs947310	NP_542178	V	L	VL	benign
rs947310	NP_817130	V	L	VL	benign
rs947345	XP_031401	P	L	PL	probably damaging
rs947894	NP_000843	I	V	IV	benign
rs948060	NP_775857	V	L	VL	benign
rs948445	NP_542389	R	Q	RQ	benign
rs948615	NP_060227	N	T	NT	benign
rs948962	NP_000251	I	L	IL	benign
rs949431	NP_064445	S	A	SA	benign
rs949493	NP_055208	M	V	MV	possibly damaging
rs950164	XP_060952	A	S	AS	benign
rs950169	NP_997400	T	I	TI	benign
rs951059	XP_497670	E	K	EK	benign
rs951060	XP_497670	R	C	RC	probably damaging
rs951618	NP_055129	I	T	IT	benign
rs951773	NP_149034	C	R	CR	probably damaging
rs951781	NP_006608	V	I	VI	benign
rs951833	NP_659499	R	W	RW	probably damaging
rs952254	NP_003741	P	L	PL	probably damaging
rs952374	NP_056028	E	Q	EQ	benign
rs953338	NP_006436	N	T	NT	benign
rs953619	NP_005764	F	I	FI	probably damaging
rs953635	NP_036193	V	G	VG	probably damaging
rs953635	NP_036192	V	G	VG	probably damaging
rs953635	NP_005681	V	G	VG	probably damaging
rs953767	NP_079335	F	S	FS	benign
rs953778	NP_057695	P	L	PL	benign
rs953778	NP_201568	P	L	PL	benign
rs954440	NP_001538	Q	H	QH	possibly damaging
rs955417	NP_003432	R	K	RK	benign
rs955592	NP_115589	T	I	TI	possibly damaging
rs955713	XP_093839	E	K	EK	benign
rs956868	NP_061852	P	T	PT	benign
rs957680	NP_733792	N	S	NS	benign
rs957680	NP_115756	N	S	NS	benign
rs957680	NP_733781	N	S	NS	benign
rs958068	NP_056193	S	F	SF	benign
rs958117	NP_061330	S	F	SF	benign
rs958305	NP_116078	R	K	RK	benign
rs958912	NP_079429	R	C	RC	benign
rs958940	NP_071746	G	S	GS	benign
rs959317	XP_166086	V	G	VG	possibly damaging
rs959460	NP_940862	V	D	VD	benign
rs959976	NP_015628	H	R	HR	benign
rs960173	NP_005615	T	A	TA	benign

rs960173	NP_683686	T	A	TA	benign
rs960193	XP_166825	L	R	LR	probably damaging
rs960689	NP_116078	S	T	ST	benign
rs961360	NP_056176	M	V	MV	benign
rs961490	NP_055641	R	H	RH	benign
rs961490	NP_003598	R	H	RH	benign
rs962976	NP_059136	I	T	IT	benign
rs962976	NP_064513	T	I	TI	benign
rs963075	NP_005015	R	C	RC	possibly damaging
rs963981	NP_115811	C	G	CG	benign
rs964201	NP_060606	H	Y	HY	probably damaging
rs964307	NP_803875	Y	H	YH	benign
rs965189	NP_078813	E	K	EK	benign
rs966185	NP_060952	I	V	IV	benign
rs966384	NP_443204	P	S	PS	probably damaging
rs966845	NP_006448	T	A	TA	benign
rs967185	NP_003741	E	K	EK	benign
rs968207	NP_002510	I	L	IL	benign
rs968381	NP_003961	S	N	SN	benign
rs968457	NP_001562	R	Q	RQ	benign
rs968502	NP_115528	M	V	MV	benign
rs968566	NP_068773	L	M	LM	benign
rs968733	NP_009161	S	N	SN	benign
rs968733	NP_057303	S	N	SN	benign
rs970547	NP_542376	S	G	SG	benign
rs970547	NP_004361	S	G	SG	benign
rs970881	NP_619639	S	N	SN	benign
rs970881	NP_733842	S	N	SN	benign
rs971576	XP_372992	K	N	KN	benign
rs972806	NP_940901	N	S	NS	benign
rs972925	XP_088491	Q	R	QR	probably damaging
rs972946	NP_001733	R	L	RL	possibly damaging
rs974963	NP_079115	Q	K	QK	benign
rs975263	NP_877439	L	S	LS	benign
rs975899	NP_073153	R	S	RS	benign
rs976272	NP_722518	M	L	ML	benign
rs976714	XP_168530	A	T	AT	benign
rs977728	NP_872412	M	I	MI	benign
rs978012	NP_861439	E	K	EK	benign
rs981684	NP_853515	T	I	TI	possibly damaging
rs981685	NP_853515	S	L	SL	possibly damaging
rs983034	NP_079187	V	I	VI	benign
rs984274	NP_005206	M	V	MV	benign
rs984724	NP_068590	P	H	PH	probably damaging
rs984819	XP_045911	P	L	PL	probably damaging
rs984896	NP_001973	V	G	VG	probably damaging

rs985861	NP_077739	C	F	CF	probably damaging
rs986178	NP_653188	G	D	GD	possibly damaging
rs988337	NP_001763	I	L	IL	benign
rs988574	NP_852478	E	G	EG	possibly damaging
rs989298	NP_002459	L	M	LM	benign
rs989902	NP_542415	Y	D	YD	benign
rs989902	NP_542416	Y	D	YD	benign
rs989902	NP_006255	Y	D	YD	benign
rs989902	NP_542414	Y	D	YD	benign
rs990447	NP_004849	L	F	LF	benign
rs992327	NP_150285	E	G	EG	possibly damaging
rs993658	XP_210752	T	S	TS	benign
rs993869	NP_063946	A	S	AS	benign
rs997173	XP_374983	E	K	EK	benign
rs997983	NP_002408	I	L	IL	benign
rs998532	NP_003585	K	E	KE	benign
rs998544	XP_166831	A	V	AV	benign
rs998688	NP_001928	V	M	VM	benign
rs998928	XP_291204	T	A	TA	benign
rs999061	XP_498268	Q	E	QE	benign
rs999409	NP_055763	T	M	TM	benign
rs999409	NP_955447	T	M	TM	benign
rs999597	NP_853631	R	H	RH	benign
rs999765	NP_065387	E	Q	EQ	benign
rs999780	NP_000583	P	L	PL	possibly damaging
rs999780	NP_001002029	P	L	PL	possibly damaging
rs999813	XP_371146	P	H	PH	probably damaging
rs999890	NP_055855	S	A	SA	benign
rs999940	NP_060814	V	E	VE	probably damaging
rs999980	NP_002667	F	L	FL	possibly damaging
rs1000952	NP_872343	R	H	RH	benign
rs1001178	NP_110392	S	T	ST	benign
rs1003354	NP_064421	T	R	TR	benign
rs1003354	NP_003777	T	R	TR	benign
rs1003355	NP_064421	A	G	AG	benign
rs1003355	NP_003777	A	G	AG	benign
rs1003490	XP_291816	A	V	AV	benign
rs1003645	NP_005055	V	M	VM	benign
rs1003645	NP_665905	V	M	VM	benign
rs1003878	NP_006772	P	L	PL	benign
rs1004041	NP_036599	L	F	LF	benign
rs1004200	XP_376720	H	R	HR	probably damaging
rs1004588	NP_001337	T	S	TS	benign
rs1004955	NP_068713	T	A	TA	benign
rs1004955	NP_001690	T	A	TA	benign
rs1004979	NP_079489	E	A	EA	benign

rs1004979	NP_066022	E	A	EA	benign
rs1005603	XP_376720	S	I	SI	possibly damaging
rs1006459	NP_054731	H	R	HR	benign
rs1006954	NP_055928	P	S	PS	possibly damaging
rs1007160	NP_055085	L	M	LM	benign
rs1007211	NP_002520	G	E	GE	possibly damaging
rs1007298	NP_705843	V	A	VA	benign
rs1007477	NP_115672	G	A	GA	possibly damaging
rs1008265	NP_005697	R	Q	RQ	benign
rs1008328	XP_496306	L	F	LF	benign
rs1008336	XP_376720	R	C	RC	probably damaging
rs1009382	NP_061978	E	G	EG	possibly damaging
rs1009485	XP_374831	S	I	SI	possibly damaging
rs1009668	XP_375848	V	M	VM	possibly damaging
rs1009758	NP_038267	D	E	DE	benign
rs1009758	NP_038286	D	E	DE	benign
rs1010155	NP_002309	E	K	EK	benign
rs1010243	NP_006246	I	T	IT	possibly damaging
rs1011320	NP_005018	P	S	PS	benign
rs1011332	NP_659419	E	K	EK	benign
rs1011454	XP_068889	V	A	VA	benign
rs1013860	NP_068506	V	G	VG	possibly damaging
rs1013940	NP_068587	I	V	IV	benign
rs1014022	NP_938052	E	K	EK	benign
rs1014022	NP_938051	E	K	EK	benign
rs1014022	NP_653197	E	K	EK	benign
rs1014327	NP_065960	S	F	SF	possibly damaging
rs1014867	NP_078858	P	S	PS	benign
rs1015443	NP_076409	N	S	NS	benign
rs1016862	NP_005903	I	S	IS	possibly damaging
rs1017089	XP_064190	N	T	NT	benign
rs1017219	NP_114092	M	T	MT	benign
rs1017842	NP_001202	E	D	ED	benign
rs1018448	NP_055385	R	S	RS	benign
rs1019670	NP_071744	T	S	TS	benign
rs1019670	NP_690591	T	S	TS	benign
rs1019747	NP_620687	P	S	PS	possibly damaging
rs1020694	NP_036529	G	S	GS	benign
rs1021580	NP_689836	C	R	CR	benign
rs1021737	NP_714964	S	I	SI	benign
rs1021737	NP_001893	S	I	SI	benign
rs1022478	NP_056468	F	L	FL	probably damaging
rs1023000	NP_055848	S	N	SN	benign
rs1023783	NP_849164	D	G	DG	benign
rs1024196	NP_001714	L	S	LS	benign
rs1024323	NP_005298	A	V	AV	benign

rs1024323	NP_892027	A	V	AV	benign
rs1024657	NP_113644	V	A	VA	benign
rs1025806	XP_371248	A	V	AV	benign
rs1026128	NP_061184	N	S	NS	benign
rs1026259	NP_113644	A	T	AT	benign
rs1026260	NP_113644	H	R	HR	probably damaging
rs1026261	NP_113644	V	A	VA	benign
rs1027335	NP_055447	L	P	LP	probably damaging
rs1028180	NP_003657	Q	R	QR	benign
rs1029365	NP_079064	M	V	MV	benign
rs1029366	NP_689961	N	Y	NY	possibly damaging
rs1029396	NP_570124	K	T	KT	possibly damaging
rs1029448	NP_079420	L	I	LI	benign
rs1029871	NP_003148	A	P	AP	benign
rs1030723	XP_171424	S	F	SF	probably damaging
rs1030726	XP_171424	D	Y	DY	probably damaging
rs1030986	NP_997221	T	A	TA	benign
rs1031639	NP_078948	I	M	IM	benign
rs1031904	NP_071926	D	H	DH	possibly damaging
rs1033500	NP_006772	L	P	LP	probably damaging
rs1033545	NP_003425	T	S	TS	benign
rs1033582	NP_005609	S	F	SF	possibly damaging
rs1033734	NP_777638	S	L	SL	benign
rs1034268	NP_115633	L	F	LF	benign
rs1034489	NP_065960	A	T	AT	benign
rs1034494	XP_094074	F	L	FL	benign
rs1035480	NP_659437	R	T	RT	benign
rs1035539	NP_055382	P	S	PS	possibly damaging
rs1035834	NP_777559	F	L	FL	benign
rs1036199	NP_116171	L	R	LR	benign
rs1036533	NP_689737	G	D	GD	benign
rs1036938	NP_004381	C	S	CS	benign
rs1036938	NP_683880	C	S	CS	benign
rs1037921	NP_064568	N	S	NS	benign
rs1039084	NP_640337	S	N	SN	benign
rs1039808	XP_293656	A	V	AV	benign
rs1039898	XP_051017	R	K	RK	benign
rs1040310	NP_000491	D	E	DE	benign
rs1040461	NP_899050	G	S	GS	benign
rs1040835	NP_005104	F	L	FL	benign
rs1040904	NP_065099	P	Q	PQ	benign
rs1041073	NP_919299	K	E	KE	benign
rs1041135	XP_167711	V	A	VA	benign
rs1041439	NP_061836	L	P	LP	benign
rs1041439	NP_387505	L	P	LP	benign
rs1041935	NP_006490	R	C	RC	benign

rs1041935	NP_963837	R	C	RC	benign
rs1041935	NP_963838	R	C	RC	benign
rs1041935	NP_963839	R	C	RC	benign
rs1041937	NP_006490	M	V	MV	benign
rs1041937	NP_963837	M	V	MV	benign
rs1041937	NP_963838	M	V	MV	benign
rs1041937	NP_963839	M	V	MV	benign
rs1041946	NP_004159	E	Q	EQ	benign
rs1041948	XP_171032	W	S	WS	possibly damaging
rs1041951	NP_000131	Q	R	QR	benign
rs1041956	NP_000375	E	Q	EQ	benign
rs1041960	NP_000375	V	L	VL	benign
rs1041961	NP_002462	A	S	AS	benign
rs1041961	NP_000248	S	A	SA	benign
rs1041965	NP_004404	P	S	PS	benign
rs1041967	NP_058431	L	W	LW	benign
rs1041967	NP_005197	L	W	LW	probably damaging
rs1041968	NP_000375	D	E	DE	benign
rs1041969	NP_000659	N	K	NK	benign
rs1041970	NP_001783	S	T	ST	benign
rs1041971	NP_000375	T	A	TA	benign
rs1041972	NP_001783	I	L	IL	benign
rs1041973	NP_057316	A	E	AE	benign
rs1041973	NP_775661	A	E	AE	benign
rs1041973	NP_003847	A	E	AE	benign
rs1041977	NP_000658	E	V	EV	benign
rs1041981	NP_000586	T	N	TN	benign
rs1041984	XP_496518	D	N	DN	benign
rs1041988	NP_059488	I	T	IT	benign
rs1041997	NP_001807	R	K	RK	benign
rs1041999	NP_001806	P	S	PS	benign
rs1042001	NP_001677	E	Q	EQ	possibly damaging
rs1042007	NP_004399	N	D	ND	possibly damaging
rs1042008	NP_001046	H	Y	HY	benign
rs1042008	NP_803565	H	Y	HY	benign
rs1042008	NP_803566	H	Y	HY	benign
rs1042008	NP_803878	H	Y	HY	benign
rs1042008	NP_803880	H	Y	HY	benign
rs1042011	NP_001046	E	Q	EQ	benign
rs1042011	NP_803565	E	Q	EQ	benign
rs1042011	NP_803566	E	Q	EQ	benign
rs1042011	NP_803878	E	Q	EQ	benign
rs1042011	NP_803880	E	Q	EQ	benign
rs1042014	NP_001046	E	D	ED	benign
rs1042014	NP_803565	E	D	ED	benign
rs1042014	NP_803566	E	D	ED	benign

rs1042014	NP_803878	E	D	ED	benign
rs1042014	NP_803880	E	D	ED	benign
rs1042015	NP_000411	H	N	HN	benign
rs1042017	NP_004167	T	A	TA	benign
rs1042020	NP_002591	E	K	EK	benign
rs1042022	NP_000375	K	T	KT	benign
rs1042023	NP_000375	E	Q	EQ	benign
rs1042025	NP_000375	T	I	TI	benign
rs1042027	NP_000375	L	F	LF	benign
rs1042031	NP_000375	K	E	KE	benign
rs1042036	NP_000370	R	P	RP	benign
rs1042038	NP_004279	D	N	DN	benign
rs1042044	NP_002053	F	L	FL	possibly damaging
rs1042051	NP_852123	A	V	AV	benign
rs1042051	NP_852124	A	V	AV	benign
rs1042051	NP_852122	A	V	AV	benign
rs1042052	NP_004159	I	V	IV	benign
rs1042053	NP_852123	L	F	LF	benign
rs1042053	NP_852124	L	F	LF	benign
rs1042053	NP_852122	L	F	LF	benign
rs1042056	NP_004159	Y	N	YN	benign
rs1042057	NP_006284	A	V	AV	benign
rs1042059	NP_005171	C	Y	CY	probably damaging
rs1042063	NP_005091	E	G	EG	possibly damaging
rs1042063	NP_653080	E	G	EG	possibly damaging
rs1042067	NP_001838	N	K	NK	benign
rs1042067	NP_378667	N	K	NK	benign
rs1042068	NP_005091	S	G	SG	benign
rs1042068	NP_653080	S	G	SG	benign
rs1042069	NP_005091	A	S	AS	benign
rs1042069	NP_653080	A	S	AS	benign
rs1042075	NP_060004	T	S	TS	benign
rs1042079	XP_007651	L	Q	LQ	benign
rs1042101	NP_001735	A	V	AV	benign
rs1042109	NP_004162	V	D	VD	benign
rs1042114	NP_000902	F	C	FC	possibly damaging
rs1042117	NP_002112	F	Y	FY	benign
rs1042121	NP_002112	A	V	AV	benign
rs1042123	NP_003289	A	V	AV	benign
rs1042131	NP_002112	A	E	AE	probably damaging
rs1042133	NP_002112	E	D	ED	benign
rs1042136	NP_002112	I	L	IL	benign
rs1042140	NP_002112	K	E	KE	benign
rs1042151	NP_002112	M	V	MV	benign
rs1042153	NP_002112	M	I	MI	benign
rs1042155	NP_000873	M	T	MT	benign



rs1042160	NP_002094	S	R	SR	benign
rs1042164	NP_004898	V	A	VA	benign
rs1042169	NP_002112	G	D	GD	benign
rs1042170	NP_004159	A	T	AT	possibly damaging
rs1042172	NP_000682	R	P	RP	probably damaging
rs1042175	NP_291032	M	R	MR	probably damaging
rs1042178	NP_291032	Q	R	QR	benign
rs1042190	NP_291032	K	R	KR	benign
rs1042195	NP_002854	E	V	EV	probably damaging
rs1042206	NP_000560	F	S	FS	benign
rs1042208	NP_000560	F	L	FL	benign
rs1042210	NP_002854	S	R	SR	benign
rs1042211	NP_291032	E	K	EK	benign
rs1042216	NP_004493	T	A	TA	benign
rs1042227	NP_002616	R	H	RH	benign
rs1042228	NP_002005	T	P	TP	benign
rs1042229	NP_002020	N	K	NK	benign
rs1042231	NP_291032	L	F	LF	benign
rs1042233	NP_002005	T	P	TP	benign
rs1042281	NP_002768	T	A	TA	benign
rs1042282	NP_002768	S	T	ST	benign
rs1042290	NP_000893	R	T	RT	possibly damaging
rs1042290	NP_009218	R	T	RT	possibly damaging
rs1042290	NP_009219	R	T	RT	possibly damaging
rs1042290	NP_009220	R	T	RT	possibly damaging
rs1042294	NP_004625	E	G	EG	possibly damaging
rs1042299	NP_060004	M	I	MI	benign
rs1042302	NP_003132	P	A	PA	probably damaging
rs1042303	NP_001494	M	V	MV	benign
rs1042308	NP_291032	F	V	FV	benign
rs1042315	NP_775180	G	R	GR	possibly damaging
rs1042315	NP_775181	G	R	GR	possibly damaging
rs1042316	NP_775180	G	A	GA	benign
rs1042316	NP_775181	G	A	GA	benign
rs1042318	NP_002333	W	C	WC	probably damaging
rs1042335	NP_002112	T	I	TI	benign
rs1042337	NP_002109	I	T	IT	benign
rs1042339	NP_000825	I	V	IV	benign
rs1042349	NP_004137	E	K	EK	benign
rs1042360	NP_000013	K	N	KN	possibly damaging
rs1042378	NP_001684	A	S	AS	benign
rs1042379	NP_000060	D	E	DE	benign
rs1042381	NP_002989	S	T	ST	benign
rs1042383	NP_000078	Y	S	YS	benign
rs1042391	NP_006868	I	F	IF	benign
rs1042393	NP_000143	R	H	RH	possibly damaging

rs1042395	NP_000143	H	R	HR	benign
rs1042401	NP_056525	S	R	SR	benign
rs1042435	NP_000176	R	K	RK	benign
rs1042437	NP_001957	T	K	TK	benign
rs1042438	NP_001957	P	T	PT	possibly damaging
rs1042457	NP_004159	R	H	RH	benign
rs1042498	NP_000149	S	C	SC	probably damaging
rs1042500	NP_000736	R	T	RT	benign
rs1042522	NP_000537	R	P	RP	possibly damaging
rs1042529	NP_002582	E	D	ED	benign
rs1042530	NP_002582	E	V	EV	possibly damaging
rs1042543	NP_003045	R	H	RH	possibly damaging
rs1042550	NP_001141	G	C	GC	probably damaging
rs1042559	NP_006246	H	R	HR	probably damaging
rs1042579	NP_000352	A	V	AV	benign
rs1042581	NP_061949	K	R	KR	benign
rs1042593	NP_061949	A	T	AT	benign
rs1042594	NP_061950	A	T	AT	benign
rs1042594	NP_061949	A	T	AT	benign
rs1042597	NP_061949	A	G	AG	benign
rs1042600	NP_004062	L	H	LH	probably damaging
rs1042602	NP_000363	S	Y	SY	possibly damaging
rs1042608	NP_000363	R	T	RT	probably damaging
rs1042620	NP_003373	R	H	RH	benign
rs1042636	NP_000379	R	G	RG	possibly damaging
rs1042652	NP_005032	G	S	GS	benign
rs1042659	NP_000298	A	T	AT	benign
rs1042664	NP_000054	F	L	FL	possibly damaging
rs1042674	NP_003376	A	G	AG	benign
rs1042685	NP_003376	K	R	KR	benign
rs1042687	NP_001706	V	M	VM	benign
rs1042704	NP_004986	D	N	DN	benign
rs1042708	NP_001063	S	Y	SY	possibly damaging
rs1042709	NP_066307	A	P	AP	benign
rs1042709	NP_000454	A	P	AP	benign
rs1042709	NP_009051	A	P	AP	benign
rs1042709	NP_061966	A	P	AP	benign
rs1042709	NP_061951	A	P	AP	benign
rs1042709	NP_061950	A	P	AP	benign
rs1042709	NP_061948	A	P	AP	benign
rs1042709	NP_061949	A	P	AP	benign
rs1042709	NP_995584	A	P	AP	possibly damaging
rs1042713	NP_000015	R	G	RG	possibly damaging
rs1042714	NP_000015	Q	E	QE	benign
rs1042743	NP_150635	R	H	RH	benign
rs1042743	NP_150636	R	H	RH	benign

rs1042743	NP_150637	R	H	RH	benign
rs1042743	NP_001214	R	H	RH	benign
rs1042743	NP_150634	R	H	RH	benign
rs1042744	NP_443121	Q	K	QK	benign
rs1042750	NP_006226	A	T	AT	benign
rs1042751	NP_006226	R	Q	RQ	benign
rs1042753	NP_000905	N	D	ND	benign
rs1042755	NP_001933	G	S	GS	benign
rs1042763	NP_006674	M	T	MT	benign
rs1042764	NP_006674	V	L	VL	benign
rs1042767	NP_002013	V	A	VA	benign
rs1042777	NP_002206	T	S	TS	benign
rs1042779	NP_002206	R	Q	RQ	benign
rs1042780	NP_006671	N	K	NK	benign
rs1042784	NP_004432	R	W	RW	probably damaging
rs1042785	NP_004432	M	T	MT	probably damaging
rs1042786	NP_004432	V	I	VI	benign
rs1042788	NP_004432	R	S	RS	benign
rs1042789	NP_004432	R	G	RG	benign
rs1042793	NP_004432	G	R	GR	benign
rs1042794	NP_004432	T	S	TS	benign
rs1042797	NP_478107	R	H	RH	benign
rs1042797	NP_478114	R	H	RH	benign
rs1042797	NP_478108	R	H	RH	possibly damaging
rs1042821	NP_000170	G	E	GE	benign
rs1042825	NP_002733	R	G	RG	possibly damaging
rs1042835	NP_003062	E	K	EK	benign
rs1042835	NP_620636	E	K	EK	benign
rs1042836	NP_055689	C	R	CR	benign
rs1042838	NP_000917	L	V	LV	benign
rs1042848	NP_003103	K	Q	KQ	benign
rs1042849	NP_002206	D	E	DE	benign
rs1042854	NP_000340	D	A	DA	benign
rs1042855	NP_620602	V	L	VL	benign
rs1042855	NP_620603	V	L	VL	benign
rs1042855	NP_002740	V	L	VL	benign
rs1042856	NP_001657	G	C	GC	probably damaging
rs1042860	NP_000677	C	W	CW	possibly damaging
rs1042864	NP_015558	F	L	FL	benign
rs1042864	NP_000012	F	L	FL	benign
rs1042864	NP_015557	L	F	LF	probably damaging
rs1042867	NP_001792	I	T	IT	benign
rs1042869	NP_002297	S	F	SF	possibly damaging
rs1042887	NP_001217	G	R	GR	probably damaging
rs1042900	NP_005693	V	A	VA	benign
rs1042904	NP_002206	G	C	GC	probably damaging

rs1042915	NP_005919	H	Q	HQ	possibly damaging
rs1042917	NP_001840	H	R	HR	benign
rs1042968	NP_061968	F	L	FL	possibly damaging
rs1042969	NP_004740	E	K	EK	benign
rs1042969	NP_954573	E	K	EK	benign
rs1042974	NP_002798	G	R	GR	probably damaging
rs1042989	NP_006494	L	F	LF	benign
rs1043004	NP_002679	D	N	DN	possibly damaging
rs1043006	NP_361012	R	P	RP	possibly damaging
rs1043010	NP_361012	R	P	RP	possibly damaging
rs1043015	NP_002258	P	S	PS	benign
rs1043054	XP_496581	R	T	RT	benign
rs1043059	NP_079305	A	V	AV	benign
rs1043062	NP_005490	L	R	LR	possibly damaging
rs1043073	NP_079305	R	H	RH	benign
rs1043102	NP_114428	R	L	RL	possibly damaging
rs1043126	NP_064709	S	L	SL	possibly damaging
rs1043140	NP_001295	I	T	IT	possibly damaging
rs1043152	NP_079305	R	Q	RQ	benign
rs1043157	NP_079474	V	I	VI	benign
rs1043160	NP_056495	T	I	TI	benign
rs1043161	NP_056495	R	T	RT	benign
rs1043162	NP_056495	R	S	RS	benign
rs1043202	NP_055126	N	I	NI	probably damaging
rs1043238	NP_005164	M	I	MI	probably damaging
rs1043238	NP_777613	M	I	MI	probably damaging
rs1043238	NP_777614	M	I	MI	probably damaging
rs1043238	NP_777616	M	I	MI	probably damaging
rs1043238	NP_777617	M	I	MI	probably damaging
rs1043238	NP_777618	M	I	MI	probably damaging
rs1043238	NP_777615	M	I	MI	probably damaging
rs1043301	NP_076949	H	P	HP	probably damaging
rs1043302	NP_005561	R	Q	RQ	benign
rs1043307	NP_002804	E	G	EG	possibly damaging
rs1043309	NP_076949	L	F	LF	benign
rs1043339	NP_113607	L	R	LR	possibly damaging
rs1043354	NP_006244	P	A	PA	benign
rs1043365	NP_076949	E	K	EK	benign
rs1043377	NP_055433	T	A	TA	benign
rs1043391	NP_006436	E	K	EK	possibly damaging
rs1043396	NP_006436	L	P	LP	probably damaging
rs1043399	NP_006436	N	H	NH	possibly damaging
rs1043401	NP_006436	A	S	AS	benign
rs1043424	NP_115785	N	T	NT	benign
rs1043437	NP_066284	G	R	GR	benign
rs1043438	NP_066284	R	W	RW	benign

rs1043439	NP_066284	N	K	NK	benign
rs1043440	NP_066284	G	R	GR	benign
rs1043442	NP_066284	A	T	AT	benign
rs1043442	NP_932349	T	A	TA	benign
rs1043446	NP_066284	I	L	IL	benign
rs1043446	NP_932349	L	I	LI	benign
rs1043448	NP_006378	N	H	NH	benign
rs1043455	NP_001367	T	I	TI	benign
rs1043478	XP_496391	E	G	EG	probably damaging
rs1043533	NP_974223	E	A	EA	probably damaging
rs1043553	NP_659449	S	F	SF	possibly damaging
rs1043553	NP_859049	S	F	SF	possibly damaging
rs1043565	NP_996989	E	V	EV	possibly damaging
rs1043565	NP_996990	E	V	EV	possibly damaging
rs1043565	NP_059988	E	V	EV	possibly damaging
rs1043584	NP_004665	H	Q	HQ	benign
rs1043594	NP_899233	T	A	TA	benign
rs1043613	NP_004861	Y	H	YH	possibly damaging
rs1043650	NP_066284	P	S	PS	possibly damaging
rs1043657	NP_003680	A	T	AT	benign
rs1043659	NP_006314	S	N	SN	benign
rs1043713	NP_570720	L	P	LP	possibly damaging
rs1043726	NP_005132	A	P	AP	probably damaging
rs1043730	NP_679211	Q	H	QH	possibly damaging
rs1043753	XP_496394	L	Q	LQ	benign
rs1043754	XP_496394	P	R	PR	probably damaging
rs1043761	NP_056198	H	Y	HY	possibly damaging
rs1043770	NP_009034	N	Y	NY	possibly damaging
rs1043776	NP_038474	P	T	PT	benign
rs1043836	NP_112496	G	E	GE	benign
rs1043849	NP_003935	C	Y	CY	probably damaging
rs1043857	NP_003935	F	C	FC	possibly damaging
rs1043858	NP_009097	C	W	CW	benign
rs1043859	NP_009097	E	Q	EQ	benign
rs1043860	NP_003935	A	T	AT	benign
rs1043876	NP_003787	R	G	RG	benign
rs1043876	NP_604431	R	G	RG	probably damaging
rs1043878	NP_054701	P	H	PH	probably damaging
rs1043878	NP_002285	P	H	PH	probably damaging
rs1043879	NP_064713	E	G	EG	possibly damaging
rs1043886	NP_078813	Q	P	QP	benign
rs1043887	XP_497068	H	N	HN	benign
rs1043895	NP_005001	K	N	KN	benign
rs1043930	NP_057374	E	D	ED	benign
rs1043942	NP_009108	A	S	AS	benign
rs1043963	NP_114147	A	V	AV	benign

rs1043993	NP_620709	N	S	NS	benign
rs1043993	NP_002743	N	S	NS	benign
rs1043993	NP_620707	N	S	NS	possibly damaging
rs1043993	NP_620708	N	S	NS	possibly damaging
rs1044009	NP_000426	V	A	VA	benign
rs1044032	NP_067022	I	T	IT	benign
rs1044049	NP_004997	V	F	VF	possibly damaging
rs1044056	NP_055661	A	V	AV	benign
rs1044057	NP_003560	T	A	TA	benign
rs1044058	XP_290345	W	L	WL	probably damaging
rs1044066	NP_004286	R	G	RG	probably damaging
rs1044092	NP_006085	N	S	NS	benign
rs1044092	NP_872584	N	S	NS	benign
rs1044093	NP_872584	E	V	EV	benign
rs1044093	NP_006085	E	V	EV	probably damaging
rs1044094	NP_872584	S	C	SC	benign
rs1044094	NP_006085	S	C	SC	possibly damaging
rs1044112	NP_060680	P	T	PT	probably damaging
rs1044114	NP_490597	D	N	DN	benign
rs1044128	NP_060725	H	P	HP	probably damaging
rs1044133	NP_060725	H	P	HP	probably damaging
rs1044134	NP_060725	T	P	TP	possibly damaging
rs1044136	NP_009200	G	E	GE	possibly damaging
rs1044137	NP_009200	G	C	GC	probably damaging
rs1044140	NP_038476	N	K	NK	benign
rs1044140	NP_872589	N	K	NK	benign
rs1044141	NP_004751	E	K	EK	benign
rs1044157	NP_699173	L	F	LF	benign
rs1044163	NP_003565	M	T	MT	probably damaging
rs1044163	NP_919415	M	T	MT	probably damaging
rs1044174	NP_003565	A	V	AV	benign
rs1044174	NP_919415	A	V	AV	benign
rs1044178	NP_003565	L	W	LW	possibly damaging
rs1044178	NP_919415	L	W	LW	possibly damaging
rs1044184	NP_055113	H	N	HN	benign
rs1044187	NP_003565	M	T	MT	possibly damaging
rs1044187	NP_919415	M	T	MT	possibly damaging
rs1044188	NP_003565	K	Q	KQ	benign
rs1044188	NP_919415	K	Q	KQ	benign
rs1044190	NP_003565	V	A	VA	benign
rs1044190	NP_919415	V	A	VA	benign
rs1044192	NP_003565	N	H	NH	benign
rs1044192	NP_919415	N	H	NH	benign
rs1044194	NP_003565	T	P	TP	possibly damaging
rs1044194	NP_919415	T	P	TP	possibly damaging
rs1044240	NP_001618	N	S	NS	benign

rs1044243	NP_001618	M	T	MT	possibly damaging
rs1044249	NP_002551	A	S	AS	benign
rs1044249	NP_780777	A	S	AS	benign
rs1044250	NP_647475	T	M	TM	benign
rs1044267	NP_001805	Q	H	QH	possibly damaging
rs1044280	XP_291015	Q	H	QH	possibly damaging
rs1044287	NP_006313	T	S	TS	benign
rs1044289	NP_006313	S	I	SI	benign
rs1044310	NP_037541	S	A	SA	benign
rs1044367	NP_003743	T	P	TP	benign
rs1044375	NP_848567	T	K	TK	possibly damaging
rs1044418	NP_114128	V	I	VI	benign
rs1044419	NP_848696	A	P	AP	benign
rs1044419	NP_848695	A	P	AP	possibly damaging
rs1044419	NP_110416	A	P	AP	possibly damaging
rs1044440	XP_372108	Q	R	QR	benign
rs1044442	NP_563614	P	L	PL	benign
rs1044444	NP_563614	V	M	VM	benign
rs1044445	NP_563614	R	C	RC	probably damaging
rs1044447	NP_563614	D	G	DG	benign
rs1044463	NP_003091	A	S	AS	benign
rs1044498	NP_006199	K	Q	KQ	benign
rs1044521	NP_542786	A	P	AP	possibly damaging
rs1044539	NP_055215	S	I	SI	benign
rs1044553	NP_000746	P	S	PS	probably damaging
rs1044553	NP_003994	P	S	PS	probably damaging
rs1044554	NP_000746	M	T	MT	probably damaging
rs1044554	NP_003994	M	T	MT	probably damaging
rs1044565	NP_940818	E	G	EG	probably damaging
rs1044567	NP_001238	V	L	VL	benign
rs1044575	NP_660214	A	T	AT	benign
rs1044615	XP_038288	W	R	WR	probably damaging
rs1044640	NP_872286	D	Y	DY	possibly damaging
rs1044640	NP_872282	D	Y	DY	possibly damaging
rs1044641	NP_055051	T	P	TP	benign
rs1044655	NP_061156	L	F	LF	benign
rs1044692	NP_002486	T	P	TP	possibly damaging
rs1044697	NP_006459	H	R	HR	benign
rs1044704	NP_002902	N	I	NI	benign
rs1044737	NP_036553	L	H	LH	benign
rs1044738	NP_036553	S	T	ST	benign
rs1044740	NP_036553	L	Q	LQ	benign
rs1044803	NP_005151	V	M	VM	probably damaging
rs1044808	NP_057158	G	A	GA	benign
rs1044848	NP_001452	P	S	PS	benign
rs1044862	NP_006323	I	M	IM	benign

rs1044877	NP_115534	M	V	MV	benign
rs1044877	NP_683738	M	V	MV	benign
rs1044877	NP_663620	M	V	MV	benign
rs1044877	NP_684281	M	V	MV	benign
rs1044881	NP_115534	G	S	GS	benign
rs1044881	NP_683738	G	S	GS	benign
rs1044881	NP_663620	G	S	GS	benign
rs1044881	NP_684281	G	S	GS	benign
rs1044892	NP_963853	A	S	AS	benign
rs1044904	NP_115534	K	E	KE	benign
rs1044904	NP_683738	K	E	KE	benign
rs1044904	NP_663620	K	E	KE	benign
rs1044904	NP_684281	K	E	KE	benign
rs1044928	NP_115534	M	V	MV	benign
rs1044928	NP_683738	M	V	MV	benign
rs1044928	NP_663620	M	V	MV	benign
rs1044928	NP_684281	M	V	MV	benign
rs1044929	NP_115534	M	T	MT	benign
rs1044929	NP_683738	M	T	MT	benign
rs1044929	NP_684281	M	T	MT	benign
rs1044929	NP_683881	C	R	CR	possibly damaging
rs1044935	NP_071401	P	T	PT	possibly damaging
rs1044940	NP_115534	V	I	VI	benign
rs1044940	NP_683881	V	I	VI	benign
rs1044940	NP_683738	V	I	VI	benign
rs1044941	NP_115534	R	H	RH	benign
rs1044941	NP_683881	R	H	RH	benign
rs1044941	NP_683738	R	H	RH	benign
rs1044950	NP_689853	A	V	AV	benign
rs1044962	NP_006455	A	G	AG	benign
rs1044963	NP_006455	Q	L	QL	possibly damaging
rs1044964	NP_006455	K	Q	KQ	benign
rs1044965	NP_006455	Q	P	QP	possibly damaging
rs1044966	NP_006455	Q	H	QH	possibly damaging
rs1044968	NP_006450	E	K	EK	benign
rs1044969	NP_006455	E	G	EG	possibly damaging
rs1044980	NP_757386	Q	H	QH	possibly damaging
rs1044998	NP_006022	R	M	RM	benign
rs1045002	NP_060413	I	N	IN	benign
rs1045012	NP_005711	K	N	KN	possibly damaging
rs1045023	NP_078848	S	F	SF	benign
rs1045031	NP_071359	T	M	TM	benign
rs1045049	NP_057387	E	Q	EQ	benign
rs1045051	NP_579917	L	R	LR	possibly damaging
rs1045051	NP_579922	L	R	LR	possibly damaging
rs1045051	NP_579919	L	R	LR	possibly damaging



rs1045058	NP_060946	S	N	SN	benign
rs1045061	NP_060946	S	I	SI	benign
rs1045063	NP_060946	M	V	MV	benign
rs1045065	NP_060946	A	V	AV	benign
rs1045072	XP_209178	P	Q	PQ	probably damaging
rs1045082	NP_060946	M	I	MI	benign
rs1045094	NP_060738	S	F	SF	benign
rs1045102	NP_006305	K	M	KM	benign
rs1045105	NP_006305	N	H	NH	benign
rs1045117	XP_047325	A	V	AV	benign
rs1045141	NP_067653	H	Q	HQ	possibly damaging
rs1045142	NP_005397	R	Q	RQ	possibly damaging
rs1045216	NP_067635	T	A	TA	benign
rs1045228	NP_060779	A	V	AV	benign
rs1045236	NP_004877	I	F	IF	benign
rs1045264	NP_055816	A	S	AS	benign
rs1045265	NP_055816	V	L	VL	benign
rs1045304	NP_036422	E	D	ED	benign
rs1045312	NP_036422	D	V	DV	probably damaging
rs1045315	NP_055639	S	T	ST	benign
rs1045317	NP_036422	N	Y	NY	possibly damaging
rs1045318	NP_036422	N	S	NS	benign
rs1045328	NP_000716	V	L	VL	benign
rs1045330	NP_057128	Q	L	QL	probably damaging
rs1045332	NP_057128	M	T	MT	probably damaging
rs1045333	NP_057128	M	I	MI	probably damaging
rs1045349	NP_057128	G	S	GS	possibly damaging
rs1045359	NP_964011	F	L	FL	probably damaging
rs1045367	NP_003697	I	M	IM	possibly damaging
rs1045451	NP_573438	P	R	PR	benign
rs1045451	NP_573439	R	P	RP	benign
rs1045451	NP_005695	R	P	RP	benign
rs1045485	NP_001219	D	H	DH	benign
rs1045485	NP_203520	D	H	DH	benign
rs1045485	NP_203519	D	H	DH	benign
rs1045489	NP_055444	R	K	RK	benign
rs1045513	XP_498429	E	Q	EQ	benign
rs1045546	NP_060479	T	M	TM	benign
rs1045550	NP_060586	C	F	CF	probably damaging
rs1045642	NP_000918	I	M	IM	benign
rs1045644	NP_004077	T	S	TS	benign
rs1045650	NP_005871	S	I	SI	probably damaging
rs1045660	NP_995314	I	T	IT	possibly damaging
rs1045660	NP_038464	I	T	IT	possibly damaging
rs1045675	NP_065090	S	F	SF	benign
rs1045677	NP_065090	H	Y	HY	benign

rs1045678	NP_065090	L	V	LV	benign
rs1045679	NP_065090	H	N	HN	possibly damaging
rs1045695	NP_004529	W	R	WR	probably damaging
rs1045706	NP_055634	R	Q	RQ	benign
rs1045709	NP_620124	A	V	AV	benign
rs1045789	NP_438169	D	E	DE	benign
rs1045818	NP_006660	H	Y	HY	benign
rs1045837	NP_057665	H	P	HP	benign
rs1045852	XP_030892	R	L	RL	benign
rs1045854	NP_001208	L	V	LV	benign
rs1045860	NP_057415	E	Q	EQ	benign
rs1045910	NP_542398	G	D	GD	possibly damaging
rs1045920	NP_542398	I	F	IF	benign
rs1045922	NP_005606	R	Q	RQ	benign
rs1045933	NP_116056	S	F	SF	benign
rs1045944	NP_116056	E	K	EK	benign
rs1045961	NP_057546	S	R	SR	possibly damaging
rs1045964	NP_057546	F	L	FL	benign
rs1045967	NP_057546	N	I	NI	benign
rs1045980	NP_057546	P	S	PS	benign
rs1045986	NP_057546	H	D	HD	probably damaging
rs1046004	NP_002227	S	N	SN	benign
rs1046005	NP_002227	G	S	GS	possibly damaging
rs1046032	NP_976251	F	S	FS	benign
rs1046043	NP_005547	E	G	EG	benign
rs1046049	NP_064560	Y	C	YC	probably damaging
rs1046059	XP_088525	R	L	RL	probably damaging
rs1046082	NP_004629	A	G	AG	benign
rs1046082	NP_542417	A	G	AG	benign
rs1046084	NP_004629	R	C	RC	possibly damaging
rs1046084	NP_542417	R	C	RC	possibly damaging
rs1046086	NP_004629	G	R	GR	possibly damaging
rs1046086	NP_542417	G	R	GR	possibly damaging
rs1046088	NP_001420	P	Q	PQ	benign
rs1046089	NP_004629	H	R	HR	benign
rs1046089	NP_542417	H	R	HR	benign
rs1046097	NP_057521	M	V	MV	benign
rs1046116	NP_004563	P	L	PL	probably damaging
rs1046166	NP_598397	R	H	RH	possibly damaging
rs1046184	NP_005853	N	S	NS	benign
rs1046219	NP_056286	K	E	KE	benign
rs1046247	NP_005848	E	K	EK	benign
rs1046248	NP_000614	R	C	RC	benign
rs1046256	NP_006262	N	K	NK	possibly damaging
rs1046266	NP_060526	L	P	LP	possibly damaging
rs1046268	NP_055243	M	T	MT	possibly damaging

rs1046297	NP_067034	V	I	VI	benign
rs1046298	NP_004254	S	N	SN	benign
rs1046301	NP_002827	V	A	VA	benign
rs1046301	NP_543031	V	A	VA	benign
rs1046307	NP_057258	P	T	PT	possibly damaging
rs1046352	NP_060651	Q	E	QE	benign
rs1046356	XP_034594	R	Q	RQ	benign
rs1046362	NP_005547	R	C	RC	benign
rs1046375	NP_001373	R	L	RL	probably damaging
rs1046394	NP_005494	G	C	GC	probably damaging
rs1046403	NP_443167	V	A	VA	benign
rs1046404	NP_443167	C	S	CS	benign
rs1046428	NP_665877	M	T	MT	benign
rs1046428	NP_001504	M	T	MT	probably damaging
rs1046432	NP_003791	I	M	IM	probably damaging
rs1046457	NP_085911	I	V	IV	benign
rs1046480	NP_065155	G	S	GS	benign
rs1046485	NP_036442	L	S	LS	benign
rs1046487	NP_036442	V	G	VG	benign
rs1046488	NP_036442	E	Q	EQ	benign
rs1046490	NP_036442	A	P	AP	benign
rs1046498	NP_056508	P	Q	PQ	benign
rs1046501	NP_056508	I	F	IF	benign
rs1046515	NP_443085	P	L	PL	probably damaging
rs1046558	NP_073734	G	S	GS	benign
rs1046572	NP_002958	A	P	AP	benign
rs1046609	NP_009142	T	S	TS	benign
rs1046631	NP_071932	E	V	EV	benign
rs1046663	NP_060283	R	S	RS	probably damaging
rs1046668	NP_009046	Q	R	QR	benign
rs1046688	NP_004778	E	D	ED	benign
rs1046689	NP_653182	D	Y	DY	probably damaging
rs1046701	NP_653182	A	V	AV	benign
rs1046712	NP_000121	I	L	IL	benign
rs1046714	NP_002568	V	L	VL	possibly damaging
rs1046742	NP_006327	E	K	EK	benign
rs1046755	NP_004084	Y	H	YH	benign
rs1046756	NP_004629	L	P	LP	benign
rs1046756	NP_542417	L	P	LP	benign
rs1046765	NP_201575	G	V	GV	benign
rs1046791	NP_036601	P	R	PR	possibly damaging
rs1046804	NP_001867	T	A	TA	possibly damaging
rs1046806	NP_056498	R	L	RL	probably damaging
rs1046815	NP_003089	L	F	LF	benign
rs1046823	NP_060551	G	V	GV	benign
rs1046871	NP_079175	T	I	TI	benign

rs1046902	XP_374396	S	F	SF	possibly damaging
rs1046921	XP_376965	A	G	AG	benign
rs1046923	XP_376965	R	G	RG	possibly damaging
rs1046934	NP_443197	Q	H	QH	benign
rs1046937	NP_443197	G	V	GV	probably damaging
rs1046942	NP_000924	K	T	KT	benign
rs1046942	NP_877949	K	T	KT	benign
rs1046955	NP_004177	A	G	AG	benign
rs1046957	NP_005351	S	R	SR	benign
rs1046961	NP_057133	T	P	TP	benign
rs1046975	NP_001272	R	S	RS	benign
rs1046976	NP_000532	A	V	AV	benign
rs1046984	NP_000050	F	S	FS	possibly damaging
rs1046992	NP_031377	I	T	IT	benign
rs1046993	NP_031377	L	S	LS	benign
rs1046996	NP_002638	K	N	KN	benign
rs1046997	NP_002638	L	S	LS	benign
rs1046998	NP_002638	K	N	KN	benign
rs1047003	NP_060255	K	N	KN	benign
rs1047005	NP_000829	S	P	SP	benign
rs1047011	NP_002580	L	V	LV	benign
rs1047011	NP_115832	L	V	LV	benign
rs1047011	NP_115833	L	V	LV	benign
rs1047034	NP_612371	I	L	IL	benign
rs1047037	NP_612371	S	G	SG	benign
rs1047042	NP_612371	D	N	DN	benign
rs1047043	NP_258411	E	A	EA	benign
rs1047076	NP_075258	Q	H	QH	benign
rs1047076	NP_075263	Q	H	QH	benign
rs1047076	NP_075265	Q	H	QH	benign
rs1047076	NP_075419	Q	H	QH	benign
rs1047076	NP_075420	Q	H	QH	benign
rs1047076	NP_075264	Q	H	QH	benign
rs1047077	NP_075258	N	I	NI	probably damaging
rs1047077	NP_075263	N	I	NI	probably damaging
rs1047077	NP_075265	N	I	NI	probably damaging
rs1047077	NP_075419	N	I	NI	probably damaging
rs1047077	NP_075420	N	I	NI	probably damaging
rs1047077	NP_075264	N	I	NI	probably damaging
rs1047078	NP_075258	Q	H	QH	benign
rs1047078	NP_075263	Q	H	QH	benign
rs1047078	NP_075265	Q	H	QH	benign
rs1047078	NP_075419	Q	H	QH	benign
rs1047078	NP_075420	Q	H	QH	benign
rs1047083	NP_075258	Y	S	YS	benign
rs1047083	NP_075265	Y	S	YS	benign

rs1047083	NP_075419	Y	S	YS	benign
rs1047083	NP_075420	Y	S	YS	benign
rs1047083	NP_075264	Y	S	YS	benign
rs1047087	NP_075258	I	M	IM	benign
rs1047087	NP_075263	I	M	IM	benign
rs1047087	NP_075265	I	M	IM	benign
rs1047087	NP_075419	I	M	IM	benign
rs1047087	NP_075420	I	M	IM	benign
rs1047087	NP_075264	I	M	IM	benign
rs1047088	NP_075258	I	T	IT	benign
rs1047088	NP_075263	I	T	IT	benign
rs1047088	NP_075265	I	T	IT	benign
rs1047088	NP_075419	I	T	IT	benign
rs1047088	NP_075420	I	T	IT	benign
rs1047088	NP_075264	I	T	IT	benign
rs1047095	NP_075258	A	E	AE	benign
rs1047095	NP_075263	A	E	AE	benign
rs1047095	NP_075265	A	E	AE	benign
rs1047095	NP_075419	A	E	AE	benign
rs1047095	NP_075420	A	E	AE	benign
rs1047095	NP_075264	A	E	AE	benign
rs1047098	NP_003702	L	F	LF	benign
rs1047099	NP_057438	V	I	VI	benign
rs1047191	NP_079487	H	N	HN	probably damaging
rs1047196	NP_064578	V	A	VA	benign
rs1047216	NP_005718	K	E	KE	benign
rs1047222	NP_005997	G	D	GD	possibly damaging
rs1047223	NP_001622	L	H	LH	probably damaging
rs1047229	NP_000327	G	A	GA	benign
rs1047247	NP_004455	I	R	IR	benign
rs1047247	NP_149134	R	I	RI	benign
rs1047251	NP_002353	T	A	TA	benign
rs1047254	NP_004501	E	G	EG	possibly damaging
rs1047254	NP_536349	E	G	EG	possibly damaging
rs1047254	NP_004500	E	G	EG	possibly damaging
rs1047266	NP_003833	A	V	AV	benign
rs1047266	NP_671716	A	V	AV	benign
rs1047286	NP_000055	L	P	LP	possibly damaging
rs1047288	NP_002703	L	Q	LQ	possibly damaging
rs1047291	NP_000195	Y	S	YS	possibly damaging
rs1047292	NP_078905	L	M	LM	benign
rs1047303	NP_000853	T	N	TN	possibly damaging
rs1047315	NP_004559	F	L	FL	probably damaging
rs1047325	NP_005969	S	N	SN	benign
rs1047372	NP_061759	G	D	GD	benign
rs1047375	NP_000341	H	L	HL	possibly damaging

rs1047379	NP_000341	L	P	LP	probably damaging
rs1047380	NP_597816	K	E	KE	benign
rs1047382	NP_597816	V	A	VA	benign
rs1047386	NP_597816	Y	H	YH	possibly damaging
rs1047387	NP_597816	R	G	RG	possibly damaging
rs1047390	NP_061965	D	G	DG	possibly damaging
rs1047391	NP_061964	G	R	GR	probably damaging
rs1047437	NP_694955	Q	H	QH	benign
rs1047452	NP_003416	A	T	AT	benign
rs1047462	NP_958802	V	M	VM	benign
rs1047462	NP_963892	V	M	VM	benign
rs1047552	NP_112591	F	L	FL	benign
rs1047626	NP_006336	V	M	VM	benign
rs1047640	NP_003102	T	A	TA	benign
rs1047642	NP_060337	K	R	KR	benign
rs1047673	NP_060337	E	D	ED	benign
rs1047677	XP_372076	R	L	RL	benign
rs1047679	XP_496576	T	I	TI	benign
rs1047701	NP_000325	R	P	RP	probably damaging
rs1047705	NP_000325	D	N	DN	benign
rs1047706	NP_060337	E	D	ED	benign
rs1047716	NP_060337	S	R	SR	benign
rs1047719	NP_060337	Q	K	QK	benign
rs1047726	NP_060337	L	F	LF	benign
rs1047740	NP_076994	V	I	VI	benign
rs1047751	XP_372076	F	L	FL	benign
rs1047769	NP_000114	M	V	MV	possibly damaging
rs1047781	NP_000502	I	F	IF	benign
rs1047789	NP_005574	A	P	AP	benign
rs1047840	NP_003677	E	K	EK	benign
rs1047840	NP_569082	E	K	EK	benign
rs1047844	NP_036219	S	L	SL	possibly damaging
rs1047848	NP_057257	S	F	SF	benign
rs1047851	NP_006567	L	M	LM	benign
rs1047855	NP_001239	V	A	VA	benign
rs1047856	NP_006171	N	Y	NY	possibly damaging
rs1047886	NP_001866	F	S	FS	probably damaging
rs1047887	NP_001866	M	L	ML	benign
rs1047911	NP_444278	A	S	AS	benign
rs1047962	NP_758455	H	P	HP	probably damaging
rs1047965	NP_001633	E	K	EK	benign
rs1047972	NP_003591	I	V	IV	benign
rs1047972	NP_940835	I	V	IV	benign
rs1047972	NP_940836	I	V	IV	benign
rs1047972	NP_940837	I	V	IV	benign
rs1047972	NP_940838	I	V	IV	benign

rs1047972	NP_940839	I	V	IV	benign
rs1047976	NP_059143	Q	R	QR	benign
rs1047978	NP_059143	E	D	ED	benign
rs1047991	NP_060579	R	C	RC	possibly damaging
rs1047994	NP_835224	V	A	VA	benign
rs1048013	NP_803882	L	F	LF	benign
rs1048032	NP_872433	H	P	HP	benign
rs1048039	NP_000163	S	T	ST	benign
rs1048039	NP_653082	S	T	ST	benign
rs1048046	NP_899056	A	T	AT	benign
rs1048047	NP_899056	Q	R	QR	benign
rs1048050	NP_899056	D	E	DE	benign
rs1048051	NP_005390	H	Y	HY	probably damaging
rs1048052	NP_002113	K	T	KT	benign
rs1048054	NP_899056	Q	K	QK	benign
rs1048063	NP_002113	G	S	GS	benign
rs1048064	NP_899056	R	G	RG	probably damaging
rs1048081	NP_001383	A	E	AE	benign
rs1048081	NP_116761	A	E	AE	benign
rs1048081	NP_116757	A	E	AE	benign
rs1048081	NP_116760	A	E	AE	benign
rs1048081	NP_001382	A	E	AE	benign
rs1048081	NP_001381	A	E	AE	benign
rs1048089	NP_002113	N	T	NT	benign
rs1048090	NP_002113	N	D	ND	benign
rs1048092	NP_004544	H	P	HP	possibly damaging
rs1048094	NP_000343	V	A	VA	benign
rs1048095	NP_000343	P	L	PL	possibly damaging
rs1048096	NP_000343	L	V	LV	benign
rs1048098	NP_000343	L	F	LF	possibly damaging
rs1048101	NP_150647	C	R	CR	benign
rs1048101	NP_000671	R	C	RC	benign
rs1048101	NP_150645	R	C	RC	probably damaging
rs1048102	NP_000671	E	Q	EQ	benign
rs1048105	NP_004544	H	P	HP	probably damaging
rs1048108	NP_000456	P	S	PS	possibly damaging
rs1048122	NP_064440	F	S	FS	possibly damaging
rs1048125	NP_115866	E	K	EK	benign
rs1048127	NP_001195	G	R	GR	benign
rs1048133	NP_001280	S	C	SC	probably damaging
rs1048135	NP_004679	S	L	SL	benign
rs1048152	NP_005203	L	R	LR	possibly damaging
rs1048167	NP_733792	R	Q	RQ	benign
rs1048167	NP_115756	R	Q	RQ	benign
rs1048197	NP_003071	L	P	LP	benign
rs1048201	NP_932158	R	Q	RQ	benign

rs1048216	NP_848642	E	V	EV	possibly damaging
rs1048218	NP_733930	Q	H	QH	benign
rs1048218	NP_733931	Q	H	QH	possibly damaging
rs1048218	NP_733927	Q	H	QH	possibly damaging
rs1048220	NP_733930	R	M	RM	benign
rs1048220	NP_733931	R	M	RM	probably damaging
rs1048220	NP_733927	R	M	RM	probably damaging
rs1048221	NP_733930	R	L	RL	benign
rs1048221	NP_733931	R	L	RL	probably damaging
rs1048221	NP_733927	R	L	RL	probably damaging
rs1048225	NP_004517	E	Q	EQ	benign
rs1048236	NP_003118	T	I	TI	benign
rs1048247	XP_350781	A	G	AG	benign
rs1048247	XP_495809	G	A	GA	benign
rs1048258	NP_037492	H	P	HP	probably damaging
rs1048270	NP_006728	D	E	DE	benign
rs1048271	NP_006728	R	H	RH	benign
rs1048289	NP_987096	D	N	DN	benign
rs1048299	NP_005524	E	K	EK	benign
rs1048309	NP_006561	P	L	PL	probably damaging
rs1048319	NP_006289	D	E	DE	benign
rs1048323	NP_005524	S	F	SF	possibly damaging
rs1048328	NP_659196	R	C	RC	possibly damaging
rs1048328	NP_006844	R	C	RC	possibly damaging
rs1048347	NP_653188	H	P	HP	possibly damaging
rs1048356	NP_955367	P	L	PL	probably damaging
rs1048356	NP_001456	P	L	PL	probably damaging
rs1048369	NP_001439	A	V	AV	benign
rs1048379	NP_002762	Y	C	YC	probably damaging
rs1048401	NP_002044	I	V	IV	benign
rs1048404	NP_002044	T	A	TA	benign
rs1048425	NP_002044	S	T	ST	possibly damaging
rs1048430	NP_002113	F	L	FL	benign
rs1048443	NP_002044	G	A	GA	benign
rs1048445	NP_055994	R	Q	RQ	benign
rs1048457	XP_375747	T	I	TI	benign
rs1048457	NP_002044	T	I	TI	benign
rs1048481	NP_055162	K	M	KM	benign
rs1048485	NP_002044	N	Y	NY	benign
rs1048521	NP_002567	A	V	AV	benign
rs1048522	NP_002567	R	L	RL	possibly damaging
rs1048597	NP_536858	L	V	LV	benign
rs1048597	NP_536859	L	V	LV	benign
rs1048597	NP_002822	L	V	LV	benign
rs1048598	NP_536858	V	E	VE	benign
rs1048598	NP_536859	V	E	VE	benign



rs1048598	NP_002822	V	E	VE	benign
rs1048621	NP_536737	R	C	RC	probably damaging
rs1048661	NP_005567	L	R	LR	possibly damaging
rs1048684	NP_006345	E	G	EG	possibly damaging
rs1048714	NP_201569	W	C	WC	benign
rs1048714	NP_201570	W	C	WC	probably damaging
rs1048714	NP_003663	W	C	WC	probably damaging
rs1048755	NP_109376	V	M	VM	benign
rs1048755	NP_004984	V	M	VM	benign
rs1048779	NP_055410	G	R	GR	probably damaging
rs1048801	NP_006838	R	Q	RQ	benign
rs1048803	NP_003864	D	E	DE	benign
rs1048824	NP_991331	E	G	EG	benign
rs1048824	NP_006343	E	G	EG	benign
rs1048835	XP_050564	S	F	SF	benign
rs1048846	NP_004806	L	V	LV	benign
rs1048849	NP_004806	S	R	SR	benign
rs1048850	NP_004806	D	G	DG	possibly damaging
rs1048886	NP_660310	Q	R	QR	benign
rs1048889	NP_076977	P	L	PL	benign
rs1048895	NP_839952	M	K	MK	probably damaging
rs1048895	NP_006756	M	K	MK	probably damaging
rs1048896	NP_839952	F	L	FL	probably damaging
rs1048896	NP_006756	F	L	FL	probably damaging
rs1048906	NP_963906	G	S	GS	benign
rs1048923	NP_006839	A	T	AT	benign
rs1048943	NP_000490	I	V	IV	benign
rs1048944	NP_056392	A	S	AS	benign
rs1048945	NP_001632	Q	H	QH	benign
rs1048945	NP_542379	Q	H	QH	benign
rs1048945	NP_542380	Q	H	QH	benign
rs1048974	NP_570901	F	L	FL	benign
rs1048988	NP_001623	R	P	RP	probably damaging
rs1048991	NP_001623	M	L	ML	benign
rs1048992	NP_001623	R	L	RL	probably damaging
rs1048992	NP_112603	R	L	RL	probably damaging
rs1048993	NP_001623	Y	C	YC	benign
rs1048993	NP_112603	Y	C	YC	benign
rs1048994	NP_001623	E	G	EG	benign
rs1048995	NP_001623	R	P	RP	benign
rs1049015	NP_003734	Q	K	QK	benign
rs1049015	NP_671756	Q	K	QK	benign
rs1049015	NP_671766	Q	K	QK	benign
rs1049016	NP_003734	N	K	NK	benign
rs1049016	NP_671756	N	K	NK	benign
rs1049016	NP_671766	N	K	NK	benign

rs1049018	NP_003734	S	P	SP	benign
rs1049018	NP_671756	S	P	SP	benign
rs1049018	NP_671766	S	P	SP	benign
rs1049020	NP_003734	I	T	IT	benign
rs1049020	NP_671756	I	T	IT	benign
rs1049020	NP_671766	I	T	IT	benign
rs1049021	NP_003734	E	A	EA	benign
rs1049021	NP_671756	E	A	EA	benign
rs1049021	NP_671766	E	A	EA	benign
rs1049025	NP_003734	P	A	PA	benign
rs1049025	NP_671756	P	A	PA	benign
rs1049025	NP_671766	P	A	PA	benign
rs1049032	NP_003734	S	F	SF	benign
rs1049032	NP_671756	S	F	SF	benign
rs1049032	NP_671766	S	F	SF	benign
rs1049038	NP_003734	M	T	MT	benign
rs1049038	NP_671756	M	T	MT	benign
rs1049038	NP_671766	M	T	MT	benign
rs1049080	NP_002011	D	E	DE	benign
rs1049080	NP_891555	E	D	ED	benign
rs1049089	NP_004153	R	G	RG	probably damaging
rs1049090	NP_003984	A	V	AV	benign
rs1049110	NP_872355	Q	R	QR	benign
rs1049125	NP_006220	L	P	LP	probably damaging
rs1049150	XP_498425	I	L	IL	benign
rs1049150	NP_037421	L	I	LI	benign
rs1049168	NP_003414	C	Y	CY	probably damaging
rs1049202	NP_055033	P	L	PL	benign
rs1049202	NP_055327	P	L	PL	benign
rs1049205	NP_002696	R	Q	RQ	benign
rs1049210	NP_116786	E	D	ED	benign
rs1049210	NP_004337	E	D	ED	benign
rs1049215	XP_498425	G	R	GR	benign
rs1049215	NP_037421	R	G	RG	benign
rs1049227	NP_001279	Q	E	QE	possibly damaging
rs1049234	NP_008821	E	Q	EQ	benign
rs1049254	NP_000092	A	V	AV	benign
rs1049258	XP_496348	E	G	EG	possibly damaging
rs1049262	NP_003303	G	S	GS	possibly damaging
rs1049267	NP_056952	H	R	HR	benign
rs1049267	NP_055326	H	R	HR	benign
rs1049270	NP_003303	E	G	EG	probably damaging
rs1049287	NP_055327	L	Q	LQ	benign
rs1049289	NP_055094	S	F	SF	possibly damaging
rs1049296	NP_001054	P	S	PS	benign
rs1049299	XP_496169	T	S	TS	benign

rs1049306	NP_003468	R	C	RC	probably damaging
rs1049311	NP_003468	A	S	AS	benign
rs1049324	NP_001531	V	F	VF	benign
rs1049345	NP_001531	G	A	GA	benign
rs1049367	NP_006570	T	A	TA	benign
rs1049389	NP_006570	D	N	DN	benign
rs1049407	NP_001267	T	I	TI	benign
rs1049413	NP_002994	M	T	MT	probably damaging
rs1049415	NP_002994	M	I	MI	possibly damaging
rs1049416	NP_002994	V	M	VM	benign
rs1049418	NP_002994	I	V	IV	benign
rs1049422	NP_002994	A	G	AG	benign
rs1049423	NP_002994	Y	H	YH	benign
rs1049434	NP_003042	E	D	ED	benign
rs1049453	NP_055580	V	A	VA	benign
rs1049455	NP_004732	S	P	SP	benign
rs1049472	NP_001558	G	A	GA	benign
rs1049475	XP_497127	P	L	PL	probably damaging
rs1049486	NP_001562	E	K	EK	benign
rs1049487	NP_006508	V	I	VI	benign
rs1049491	NP_001473	I	V	IV	benign
rs1049501	NP_690039	S	Y	SY	possibly damaging
rs1049501	NP_003090	S	Y	SY	possibly damaging
rs1049515	NP_002625	G	E	GE	probably damaging
rs1049516	XP_045792	A	S	AS	benign
rs1049534	NP_003669	I	V	IV	benign
rs1049544	NP_004675	H	D	HD	possibly damaging
rs1049550	NP_665876	R	C	RC	benign
rs1049564	NP_000261	S	G	SG	benign
rs1049573	NP_000292	I	R	IR	benign
rs1049589	NP_009133	V	M	VM	benign
rs1049590	NP_009133	L	P	LP	benign
rs1049604	NP_002739	E	K	EK	benign
rs1049605	NP_002739	R	C	RC	benign
rs1049617	NP_004582	V	M	VM	benign
rs1049619	NP_003322	A	V	AV	benign
rs1049621	NP_001945	L	V	LV	benign
rs1049624	NP_963923	K	N	KN	benign
rs1049624	NP_004808	K	N	KN	benign
rs1049625	NP_963923	N	D	ND	benign
rs1049625	NP_004808	N	D	ND	benign
rs1049626	NP_963923	K	N	KN	benign
rs1049626	NP_004808	K	N	KN	benign
rs1049627	NP_963923	Q	H	QH	benign
rs1049627	NP_004808	Q	H	QH	benign
rs1049674	NP_001664	E	V	EV	benign

rs1049674	NP_597680	E	V	EV	benign
rs1049674	NP_899199	E	V	EV	benign
rs1049682	NP_036321	K	R	KR	benign
rs1049682	NP_722452	K	R	KR	benign
rs1049683	NP_036321	S	A	SA	benign
rs1049683	NP_722452	S	A	SA	benign
rs1049721	NP_000312	I	V	IV	benign
rs1049731	NP_038473	A	P	AP	benign
rs1049731	NP_000808	A	P	AP	benign
rs1049736	NP_000808	F	L	FL	probably damaging
rs1049742	NP_001082	S	F	SF	possibly damaging
rs1049756	NP_567824	G	A	GA	benign
rs1049756	NP_569120	G	A	GA	benign
rs1049756	NP_569122	G	A	GA	benign
rs1049756	NP_001387	G	A	GA	benign
rs1049760	NP_567824	N	S	NS	benign
rs1049760	NP_569120	N	S	NS	benign
rs1049760	NP_569122	N	S	NS	benign
rs1049760	NP_001387	N	S	NS	benign
rs1049763	NP_567824	S	P	SP	benign
rs1049763	NP_569120	S	P	SP	benign
rs1049763	NP_569122	S	P	SP	benign
rs1049763	NP_001387	S	P	SP	benign
rs1049768	NP_567824	Q	R	QR	benign
rs1049768	NP_569120	Q	R	QR	benign
rs1049768	NP_569122	Q	R	QR	benign
rs1049768	NP_001387	Q	R	QR	benign
rs1049793	NP_001082	H	D	HD	possibly damaging
rs1049797	NP_899236	A	V	AV	benign
rs1049797	NP_056363	A	V	AV	benign
rs1049798	NP_003239	V	G	VG	probably damaging
rs1049820	NP_963886	V	L	VL	benign
rs1049820	NP_963885	V	L	VL	benign
rs1049829	NP_002406	L	F	LF	possibly damaging
rs1049843	NP_476500	G	S	GS	possibly damaging
rs1049850	NP_001531	Q	K	QK	possibly damaging
rs1049854	NP_004554	R	S	RS	possibly damaging
rs1049856	NP_001089	A	D	AD	benign
rs1049874	NP_004306	V	I	VI	benign
rs1049874	NP_808592	V	I	VI	benign
rs1049925	NP_004417	T	A	TA	benign
rs1049932	NP_003123	V	L	VL	benign
rs1049934	NP_001969	Q	P	QP	possibly damaging
rs1049935	NP_001969	Q	H	QH	possibly damaging
rs1049948	NP_004417	R	H	RH	benign
rs1049948	XP_208080	R	H	RH	benign

rs1049967	NP_004355	A	S	AS	benign
rs1049968	NP_000772	M	I	MI	benign
rs1049970	NP_001786	T	I	TI	benign
rs1049981	NP_000680	N	S	NS	benign
rs1050004	NP_000867	R	H	RH	benign
rs1050005	NP_000867	A	G	AG	possibly damaging
rs1050043	NP_001771	R	K	RK	benign
rs1050062	NP_006834	A	S	AS	benign
rs1050073	NP_003764	S	A	SA	benign
rs1050073	NP_149348	S	A	SA	benign
rs1050074	NP_003764	R	L	RL	benign
rs1050074	NP_149348	R	L	RL	benign
rs1050081	XP_374949	D	E	DE	benign
rs1050086	NP_000345	D	N	DN	benign
rs1050090	NP_004384	A	T	AT	benign
rs1050099	NP_003069	V	E	VE	benign
rs1050100	NP_003069	R	G	RG	probably damaging
rs1050101	NP_003069	P	S	PS	benign
rs1050110	NP_006428	A	G	AG	benign
rs1050112	NP_006428	T	P	TP	benign
rs1050114	NP_006428	T	A	TA	benign
rs1050143	NP_000851	D	H	DH	probably damaging
rs1050150	NP_003050	L	V	LV	benign
rs1050152	NP_003050	L	F	LF	benign
rs1050159	NP_005262	A	V	AV	benign
rs1050160	NP_005262	R	Q	RQ	benign
rs1050164	NP_004643	R	K	RK	benign
rs1050164	NP_068706	R	K	RK	benign
rs1050165	NP_004643	F	L	FL	benign
rs1050165	NP_068706	F	L	FL	benign
rs1050182	NP_006752	K	T	KT	probably damaging
rs1050184	NP_005013	H	P	HP	benign
rs1050207	NP_006160	T	P	TP	possibly damaging
rs1050208	NP_000557	I	T	IT	possibly damaging
rs1050214	NP_001294	G	D	GD	possibly damaging
rs1050215	NP_001294	Y	H	YH	possibly damaging
rs1050217	NP_001196	K	N	KN	benign
rs1050217	NP_053583	K	N	KN	benign
rs1050217	NP_053582	K	N	KN	benign
rs1050217	NP_053581	K	N	KN	possibly damaging
rs1050237	NP_003063	R	P	RP	benign
rs1050246	NP_002100	L	V	LV	benign
rs1050250	NP_002100	I	V	IV	benign
rs1050281	NP_778255	V	M	VM	benign
rs1050281	NP_002552	V	M	VM	benign
rs1050311	NP_005960	Y	C	YC	probably damaging

rs1050312	NP_005960	T	A	TA	possibly damaging
rs1050329	NP_056937	S	F	SF	possibly damaging
rs1050341	NP_005505	I	L	IL	benign
rs1050342	NP_000603	P	Q	PQ	possibly damaging
rs1050348	NP_002281	H	Y	HY	possibly damaging
rs1050349	NP_002281	R	P	RP	benign
rs1050354	NP_004783	D	E	DE	benign
rs1050357	NP_002118	E	K	EK	benign
rs1050368	NP_005505	T	K	TK	benign
rs1050379	NP_005505	H	Y	HY	benign
rs1050381	NP_008818	A	S	AS	benign
rs1050383	NP_056937	H	P	HP	probably damaging
rs1050388	NP_005505	S	N	SN	benign
rs1050410	NP_938206	A	T	AT	benign
rs1050413	NP_872634	S	N	SN	benign
rs1050413	NP_872633	S	N	SN	benign
rs1050415	NP_872634	H	Q	HQ	possibly damaging
rs1050415	NP_872633	H	Q	HQ	possibly damaging
rs1050416	NP_872634	F	Y	FY	benign
rs1050416	NP_872633	F	Y	FY	benign
rs1050418	NP_872634	L	I	LI	benign
rs1050418	NP_872633	L	I	LI	benign
rs1050430	NP_872634	L	F	LF	benign
rs1050430	NP_872633	L	F	LF	benign
rs1050435	NP_005144	K	R	KR	benign
rs1050437	NP_002118	R	H	RH	benign
rs1050450	NP_000572	P	L	PL	benign
rs1050455	NP_005505	T	A	TA	benign
rs1050457	NP_002570	A	T	AT	benign
rs1050458	NP_005505	M	T	MT	benign
rs1050459	NP_005505	A	E	AE	benign
rs1050462	NP_005505	V	L	VL	benign
rs1050470	NP_066299	T	P	TP	probably damaging
rs1050470	NP_524148	T	P	TP	probably damaging
rs1050470	NP_524147	T	P	TP	probably damaging
rs1050477	NP_003735	T	N	TN	possibly damaging
rs1050478	NP_003735	A	T	AT	benign
rs1050479	NP_003735	A	D	AD	benign
rs1050486	NP_005505	V	M	VM	benign
rs1050499	NP_003992	F	Y	FY	benign
rs1050499	NP_963857	Y	F	YF	benign
rs1050501	NP_003992	I	T	IT	benign
rs1050501	NP_963857	I	T	IT	benign
rs1050525	NP_872590	S	R	SR	possibly damaging
rs1050529	NP_005505	A	T	AT	benign
rs1050531	NP_001669	F	L	FL	possibly damaging

rs1050538	NP_005505	E	A	EA	benign
rs1050555	NP_002558	H	N	HN	benign
rs1050558	XP_497846	V	A	VA	benign
rs1050560	NP_036212	L	F	LF	benign
rs1050565	NP_000377	I	V	IV	benign
rs1050574	NP_852092	M	T	MT	probably damaging
rs1050574	NP_057738	M	T	MT	probably damaging
rs1050574	NP_002032	M	T	MT	probably damaging
rs1050574	NP_057739	M	T	MT	probably damaging
rs1050574	NP_005245	M	T	MT	probably damaging
rs1050577	NP_620581	R	S	RS	benign
rs1050577	NP_620582	R	S	RS	benign
rs1050577	NP_620583	R	S	RS	benign
rs1050578	NP_620581	G	R	GR	benign
rs1050578	NP_620582	G	R	GR	benign
rs1050578	NP_620583	G	R	GR	possibly damaging
rs1050580	NP_620581	E	D	ED	benign
rs1050580	NP_620582	E	D	ED	benign
rs1050609	NP_037538	A	G	AG	benign
rs1050609	NP_037539	A	G	AG	benign
rs1050609	NP_001921	A	G	AG	benign
rs1050622	NP_000430	S	G	SG	benign
rs1050625	NP_002558	H	Y	HY	probably damaging
rs1050636	NP_000662	Y	D	YD	benign
rs1050637	NP_000662	L	F	LF	benign
rs1050654	NP_005505	R	S	RS	benign
rs1050665	NP_055207	Q	K	QK	benign
rs1050678	NP_072043	C	W	CW	probably damaging
rs1050683	NP_005505	A	T	AT	benign
rs1050692	NP_005505	W	S	WS	possibly damaging
rs1050701	NP_003031	D	G	DG	possibly damaging
rs1050703	NP_003031	L	V	LV	benign
rs1050708	NP_002796	D	N	DN	possibly damaging
rs1050710	NP_006150	P	L	PL	probably damaging
rs1050723	NP_005505	A	V	AV	benign
rs1050740	NP_002796	I	M	IM	possibly damaging
rs1050741	NP_002508	A	V	AV	benign
rs1050750	NP_036461	A	V	AV	benign
rs1050753	NP_001323	V	A	VA	benign
rs1050762	NP_003678	V	E	VE	possibly damaging
rs1050767	NP_002408	T	P	TP	benign
rs1050768	NP_002408	F	I	FI	benign
rs1050777	NP_000120	L	F	LF	possibly damaging
rs1050784	NP_002266	T	A	TA	benign
rs1050788	NP_068578	C	W	CW	probably damaging
rs1050805	NP_003678	R	C	RC	probably damaging

rs1050807	NP_004644	V	L	VL	benign
rs1050808	NP_004644	S	F	SF	possibly damaging
rs1050825	NP_001704	G	C	GC	benign
rs1050827	NP_000393	Q	H	QH	possibly damaging
rs1050828	NP_000393	V	M	VM	benign
rs1050829	NP_000393	D	N	DN	benign
rs1050833	NP_003233	A	V	AV	benign
rs1050869	NP_006216	D	G	DG	possibly damaging
rs1050872	NP_006112	Y	N	YN	possibly damaging
rs1050896	NP_002299	R	K	RK	benign
rs1050896	NP_033665	K	R	KR	probably damaging
rs1050901	NP_004416	G	R	GR	possibly damaging
rs1050901	NP_073155	G	R	GR	possibly damaging
rs1050904	NP_004416	S	F	SF	benign
rs1050904	NP_073155	S	F	SF	benign
rs1050906	NP_008825	I	M	IM	possibly damaging
rs1050914	NP_620279	V	F	VF	benign
rs1050914	NP_000147	V	F	VF	benign
rs1050916	NP_000703	Q	R	QR	benign
rs1050930	NP_004571	T	S	TS	benign
rs1050930	NP_899057	T	S	TS	benign
rs1050930	NP_899058	T	S	TS	benign
rs1050930	NP_899059	T	S	TS	benign
rs1050942	NP_006552	H	D	HD	probably damaging
rs1050968	NP_000266	D	A	DA	benign
rs1050971	NP_444284	N	D	ND	possibly damaging
rs1050972	NP_002451	H	Q	HQ	possibly damaging
rs1050973	NP_002451	N	K	NK	benign
rs1050974	NP_002451	T	R	TR	possibly damaging
rs1050994	NP_058132	D	N	DN	benign
rs1050994	NP_002525	N	D	ND	benign
rs1050995	NP_002525	F	L	FL	benign
rs1050995	NP_058132	L	F	LF	benign
rs1050998	NP_071342	T	I	TI	benign
rs1051006	NP_569827	M	V	MV	benign
rs1051006	NP_569828	M	V	MV	benign
rs1051006	NP_569829	M	V	MV	benign
rs1051006	NP_569830	M	V	MV	benign
rs1051006	NP_003673	M	V	MV	benign
rs1051006	NP_569826	M	V	MV	benign
rs1051006	NP_569832	V	M	VM	benign
rs1051006	NP_569831	V	M	VM	benign
rs1051041	NP_115558	G	C	GC	possibly damaging
rs1051061	NP_006287	V	I	VI	benign
rs1051068	NP_031387	G	W	GW	benign
rs1051080	NP_005078	N	D	ND	benign



rs1051082	NP_006742	V	I	VI	benign
rs1051086	NP_001846	V	D	VD	benign
rs1051113	XP_498129	M	V	MV	benign
rs1051130	NP_001751	S	A	SA	benign
rs1051152	NP_005325	P	S	PS	probably damaging
rs1051168	NP_066563	P	T	PT	benign
rs1051168	NP_995580	P	T	PT	benign
rs1051180	NP_001610	H	R	HR	possibly damaging
rs1051191	XP_496323	M	L	ML	benign
rs1051193	NP_005056	V	I	VI	benign
rs1051195	NP_004595	E	D	ED	benign
rs1051198	NP_001763	L	V	LV	benign
rs1051199	NP_001763	S	R	SR	benign
rs1051207	NP_004583	L	Q	LQ	benign
rs1051207	NP_689421	L	Q	LQ	benign
rs1051210	NP_689508	A	V	AV	benign
rs1051213	NP_689508	T	I	TI	probably damaging
rs1051221	XP_035825	N	D	ND	benign
rs1051231	NP_001433	T	P	TP	possibly damaging
rs1051235	NP_006861	A	V	AV	benign
rs1051250	NP_008936	S	P	SP	benign
rs1051258	NP_006371	F	L	FL	benign
rs1051259	NP_006371	K	R	KR	benign
rs1051261	NP_006371	S	C	SC	benign
rs1051264	NP_006371	N	K	NK	benign
rs1051266	NP_919231	H	R	HR	possibly damaging
rs1051268	NP_570824	D	N	DN	benign
rs1051270	NP_570824	Q	H	QH	benign
rs1051276	NP_570824	T	K	TK	benign
rs1051281	NP_570824	F	C	FC	possibly damaging
rs1051309	NP_065741	G	S	GS	benign
rs1051309	NP_060217	G	S	GS	benign
rs1051314	NP_004583	L	F	LF	benign
rs1051334	NP_004607	S	A	SA	benign
rs1051338	NP_000226	P	T	PT	benign
rs1051345	NP_000710	Q	R	QR	benign
rs1051346	NP_000710	W	L	WL	possibly damaging
rs1051348	NP_000710	I	V	IV	benign
rs1051350	NP_000710	I	M	IM	benign
rs1051352	NP_000710	T	R	TR	possibly damaging
rs1051355	NP_000710	I	V	IV	benign
rs1051356	NP_000710	I	L	IL	benign
rs1051396	NP_009166	E	D	ED	benign
rs1051430	NP_000203	A	V	AV	benign
rs1051433	NP_000836	N	I	NI	probably damaging
rs1051447	NP_079363	N	H	NH	probably damaging

rs1051454	NP_002246	T	A	TA	benign
rs1051456	NP_002246	A	P	AP	benign
rs1051460	NP_002246	N	H	NH	benign
rs1051465	NP_115602	R	K	RK	benign
rs1051471	NP_054720	S	P	SP	benign
rs1051471	NP_619525	S	P	SP	benign
rs1051484	NP_002717	V	I	VI	benign
rs1051486	NP_000204	T	S	TS	benign
rs1051488	NP_005505	A	T	AT	benign
rs1051489	NP_057191	I	T	IT	benign
rs1051519	NP_005318	H	Q	HQ	possibly damaging
rs1051521	NP_002510	M	L	ML	benign
rs1051522	NP_002510	I	V	IV	benign
rs1051524	NP_002510	A	V	AV	benign
rs1051525	NP_002510	R	Q	RQ	benign
rs1051532	XP_370856	R	Q	RQ	benign
rs1051558	NP_665683	F	S	FS	probably damaging
rs1051566	NP_665683	A	T	AT	benign
rs1051573	NP_665683	A	V	AV	benign
rs1051577	NP_005283	L	I	LI	benign
rs1051578	NP_665683	T	I	TI	probably damaging
rs1051588	NP_523352	S	C	SC	possibly damaging
rs1051588	NP_523353	S	C	SC	possibly damaging
rs1051588	NP_523354	S	C	SC	possibly damaging
rs1051590	NP_523352	I	V	IV	benign
rs1051590	NP_523353	I	V	IV	benign
rs1051590	NP_523354	I	V	IV	benign
rs1051590	NP_006791	I	V	IV	benign
rs1051591	NP_523352	I	L	IL	benign
rs1051591	NP_523353	I	L	IL	benign
rs1051591	NP_523354	I	L	IL	benign
rs1051591	NP_006791	I	L	IL	benign
rs1051592	NP_523352	K	R	KR	benign
rs1051592	NP_523353	K	R	KR	benign
rs1051592	NP_523354	K	R	KR	benign
rs1051592	NP_006791	K	R	KR	benign
rs1051595	XP_087225	Q	K	QK	benign
rs1051596	XP_087225	H	Q	HQ	possibly damaging
rs1051597	NP_523352	N	S	NS	benign
rs1051597	NP_523353	N	S	NS	benign
rs1051597	NP_523354	N	S	NS	benign
rs1051597	NP_006791	N	S	NS	benign
rs1051599	NP_523352	N	S	NS	benign
rs1051599	NP_523353	N	S	NS	benign
rs1051599	NP_523354	N	S	NS	benign
rs1051599	NP_006791	N	S	NS	benign

rs1051612	NP_000297	Q	R	QR	possibly damaging
rs1051616	NP_066399	T	P	TP	possibly damaging
rs1051616	NP_066400	T	P	TP	possibly damaging
rs1051616	NP_000539	T	P	TP	possibly damaging
rs1051621	NP_066399	R	S	RS	benign
rs1051621	NP_066400	R	S	RS	benign
rs1051621	NP_000539	R	S	RS	benign
rs1051623	NP_004054	E	D	ED	benign
rs1051624	NP_004054	E	A	EA	benign
rs1051625	NP_003777	L	V	LV	benign
rs1051675	NP_006400	P	T	PT	probably damaging
rs1051676	NP_001785	A	V	AV	benign
rs1051678	NP_612114	S	P	SP	possibly damaging
rs1051678	NP_612115	S	P	SP	possibly damaging
rs1051678	NP_000480	S	P	SP	possibly damaging
rs1051680	NP_612114	E	G	EG	possibly damaging
rs1051680	NP_612115	E	G	EG	possibly damaging
rs1051680	NP_000480	E	G	EG	possibly damaging
rs1051691	NP_000199	T	I	TI	probably damaging
rs1051692	NP_000199	H	Y	HY	benign
rs1051695	NP_004265	N	D	ND	benign
rs1051701	NP_000009	A	S	AS	benign
rs1051704	NP_071504	S	A	SA	benign
rs1051704	NP_000911	S	A	SA	benign
rs1051715	NP_689926	A	G	AG	possibly damaging
rs1051727	NP_002837	S	L	SL	possibly damaging
rs1051733	NP_665683	V	L	VL	benign
rs1051738	NP_006193	A	E	AE	benign
rs1051739	NP_665683	C	S	CS	benign
rs1051740	NP_000111	Y	H	YH	possibly damaging
rs1051744	NP_000481	G	V	GV	benign
rs1051745	NP_665683	P	Q	PQ	benign
rs1051751	NP_003382	C	F	CF	probably damaging
rs1051757	NP_665683	K	Q	KQ	benign
rs1051763	NP_008932	S	A	SA	benign
rs1051770	NP_008958	H	N	HN	probably damaging
rs1051773	NP_665683	K	Q	KQ	benign
rs1051776	NP_006401	F	L	FL	benign
rs1051777	NP_665683	I	L	IL	benign
rs1051778	NP_665683	I	T	IT	benign
rs1051788	NP_005922	N	D	ND	benign
rs1051789	NP_005932	Y	H	YH	probably damaging
rs1051808	NP_112594	R	Q	RQ	benign
rs1051822	NP_006396	V	D	VD	possibly damaging
rs1051841	NP_000258	M	I	MI	benign
rs1051852	NP_783163	S	R	SR	benign

rs1051858	NP_002883	T	A	TA	benign
rs1051858	NP_075376	T	A	TA	benign
rs1051858	NP_075377	T	A	TA	benign
rs1051882	NP_003385	G	D	GD	benign
rs1051885	NP_061894	S	N	SN	benign
rs1051887	NP_000316	E	Q	EQ	benign
rs1051887	NP_700475	E	Q	EQ	benign
rs1051887	NP_700476	E	Q	EQ	possibly damaging
rs1051890	NP_061894	D	N	DN	benign
rs1051911	NP_001179	R	H	RH	possibly damaging
rs1051912	NP_001179	V	A	VA	benign
rs1051925	NP_006195	Q	R	QR	benign
rs1051931	NP_005075	A	V	AV	possibly damaging
rs1051932	NP_008829	S	C	SC	possibly damaging
rs1051933	NP_001444	N	D	ND	benign
rs1051935	NP_004830	D	E	DE	benign
rs1051935	NP_955363	D	E	DE	benign
rs1051935	NP_955364	D	E	DE	benign
rs1051936	NP_004830	H	Q	HQ	benign
rs1051936	NP_955363	H	Q	HQ	benign
rs1051936	NP_955364	H	Q	HQ	benign
rs1051969	NP_003265	Y	D	YD	probably damaging
rs1051976	NP_057706	V	A	VA	benign
rs1051976	NP_663619	V	A	VA	benign
rs1051983	NP_665683	A	S	AS	benign
rs1051992	NP_659477	L	P	LP	probably damaging
rs1052019	NP_004786	F	V	FV	possibly damaging
rs1052019	NP_710150	F	V	FV	possibly damaging
rs1052030	NP_000251	L	S	LS	possibly damaging
rs1052031	NP_000251	F	L	FL	benign
rs1052032	NP_000251	R	Q	RQ	benign
rs1052042	NP_758957	G	R	GR	possibly damaging
rs1052053	NP_009152	R	Q	RQ	possibly damaging
rs1052056	NP_060687	L	F	LF	benign
rs1052065	NP_057706	Y	C	YC	probably damaging
rs1052067	NP_009152	I	M	IM	benign
rs1052068	NP_115751	A	V	AV	benign
rs1052133	NP_058213	P	A	PA	benign
rs1052133	NP_002533	S	C	SC	benign
rs1052134	NP_058213	P	R	PR	benign
rs1052141	NP_003204	A	G	AG	benign
rs1052141	NP_958849	A	G	AG	benign
rs1052157	NP_006405	D	E	DE	benign
rs1052157	NP_892117	E	D	ED	benign
rs1052166	NP_008859	L	P	LP	benign
rs1052180	NP_061905	P	L	PL	probably damaging

rs1052182	NP_008882	A	T	AT	benign
rs1052183	NP_008882	F	L	FL	possibly damaging
rs1052184	NP_008882	P	S	PS	probably damaging
rs1052195	NP_000135	S	C	SC	possibly damaging
rs1052200	NP_061902	R	H	RH	possibly damaging
rs1052200	NP_112601	R	H	RH	possibly damaging
rs1052201	NP_000135	Y	F	YF	benign
rs1052208	NP_055937	V	A	VA	benign
rs1052243	XP_372205	T	M	TM	benign
rs1052252	XP_372205	P	T	PT	probably damaging
rs1052275	NP_113671	T	I	TI	possibly damaging
rs1052276	XP_375358	V	I	VI	benign
rs1052325	NP_689983	I	V	IV	benign
rs1052366	XP_372224	T	A	TA	benign
rs1052420	XP_166138	Q	R	QR	benign
rs1052421	NP_997195	V	D	VD	probably damaging
rs1052422	NP_997195	W	R	WR	probably damaging
rs1052471	NP_002682	H	Y	HY	probably damaging
rs1052486	NP_542434	S	P	SP	benign
rs1052486	NP_004630	P	S	PS	possibly damaging
rs1052492	XP_088331	R	Q	RQ	benign
rs1052500	XP_496588	K	R	KR	benign
rs1052510	NP_055396	H	R	HR	benign
rs1052512	NP_055396	H	R	HR	benign
rs1052515	NP_055396	R	H	RH	possibly damaging
rs1052526	NP_000206	D	H	DH	probably damaging
rs1052538	NP_015564	F	L	FL	benign
rs1052538	NP_000819	F	L	FL	benign
rs1052540	NP_000819	N	S	NS	benign
rs1052542	NP_000819	L	I	LI	benign
rs1052552	NP_005927	V	G	VG	probably damaging
rs1052562	NP_997248	L	I	LI	benign
rs1052571	NP_127463	A	V	AV	benign
rs1052571	NP_001220	A	V	AV	benign
rs1052574	NP_001220	L	P	LP	possibly damaging
rs1052576	NP_001220	Q	R	QR	benign
rs1052600	NP_064618	I	F	IF	benign
rs1052601	NP_064618	R	W	RW	possibly damaging
rs1052618	NP_079522	R	K	RK	benign
rs1052621	NP_919306	L	F	LF	possibly damaging
rs1052637	NP_006764	T	S	TS	benign
rs1052638	NP_004033	H	Y	HY	possibly damaging
rs1052644	NP_002384	A	G	AG	benign
rs1052660	NP_004492	F	L	FL	benign
rs1052660	NP_114032	L	F	LF	benign
rs1052661	NP_000838	I	L	IL	benign

rs1052670	NP_973723	Q	P	QP	benign
rs1052671	NP_055792	Q	R	QR	benign
rs1052680	NP_597733	Q	H	QH	benign
rs1052690	XP_497063	K	T	KT	benign
rs1052692	NP_003191	G	S	GS	benign
rs1052736	NP_003191	Q	E	QE	benign
rs1052739	XP_372191	L	P	LP	possibly damaging
rs1052740	NP_003191	K	Q	KQ	benign
rs1052743	NP_003191	R	S	RS	probably damaging
rs1052748	NP_002654	I	T	IT	benign
rs1052753	NP_003191	V	M	VM	benign
rs1052763	NP_443732	T	M	TM	possibly damaging
rs1052765	NP_006525	G	R	GR	probably damaging
rs1052765	NP_858045	G	R	GR	probably damaging
rs1052768	NP_003191	L	V	LV	benign
rs1052778	NP_003191	K	Q	KQ	possibly damaging
rs1052790	NP_003119	H	D	HD	benign
rs1052790	NP_842565	H	D	HD	probably damaging
rs1052793	NP_003191	P	R	PR	probably damaging
rs1052800	NP_998801	R	Q	RQ	benign
rs1052800	NP_976228	R	Q	RQ	benign
rs1052800	NP_005442	R	Q	RQ	benign
rs1052818	NP_001559	F	L	FL	possibly damaging
rs1052832	NP_113642	S	L	SL	benign
rs1052853	NP_003314	L	H	LH	benign
rs1052866	NP_055240	G	A	GA	possibly damaging
rs1052867	NP_055240	S	R	SR	benign
rs1052868	XP_372191	H	R	HR	benign
rs1052869	NP_055240	N	D	ND	possibly damaging
rs1052878	NP_065826	L	P	LP	probably damaging
rs1052887	XP_375268	N	K	NK	benign
rs1052903	XP_372191	P	H	PH	benign
rs1052908	NP_075389	R	S	RS	benign
rs1052909	XP_372191	R	W	RW	probably damaging
rs1052920	XP_372191	A	G	AG	benign
rs1052963	NP_006855	E	Q	EQ	benign
rs1052968	NP_006855	N	T	NT	benign
rs1052975	NP_006855	P	R	PR	benign
rs1052976	NP_004578	S	L	SL	benign
rs1052984	NP_006855	W	R	WR	possibly damaging
rs1053002	NP_006855	Q	H	QH	probably damaging
rs1053008	NP_006660	A	V	AV	benign
rs1053008	NP_006855	V	A	VA	benign
rs1053019	NP_060805	F	L	FL	benign
rs1053042	NP_037454	S	I	SI	possibly damaging
rs1053052	NP_057097	S	P	SP	benign

rs1053077	NP_060336	D	E	DE	benign
rs1053079	NP_060336	T	A	TA	benign
rs1053084	NP_055197	F	L	FL	probably damaging
rs1053089	NP_004044	A	G	AG	benign
rs1053100	NP_001914	V	M	VM	benign
rs1053134	NP_002169	T	P	TP	benign
rs1053174	NP_005957	D	N	DN	benign
rs1053175	NP_005957	H	R	HR	possibly damaging
rs1053176	NP_005957	R	W	RW	possibly damaging
rs1053193	NP_057192	Q	E	QE	benign
rs1053228	NP_071377	Q	H	QH	possibly damaging
rs1053230	NP_003670	C	R	CR	probably damaging
rs1053261	NP_002008	Y	H	YH	possibly damaging
rs1053262	NP_006078	I	M	IM	benign
rs1053267	NP_006078	A	V	AV	benign
rs1053287	NP_631902	M	I	MI	benign
rs1053296	NP_003109	R	G	RG	possibly damaging
rs1053297	NP_036388	T	A	TA	benign
rs1053300	NP_004617	G	R	GR	probably damaging
rs1053301	NP_004617	S	W	SW	possibly damaging
rs1053312	NP_001839	R	H	RH	benign
rs1053338	NP_000324	K	R	KR	benign
rs1053340	NP_000324	P	S	PS	possibly damaging
rs1053341	NP_057309	I	L	IL	benign
rs1053341	NP_057208	I	L	IL	benign
rs1053346	NP_057309	V	A	VA	benign
rs1053346	NP_057208	V	A	VA	benign
rs1053348	NP_057309	N	T	NT	benign
rs1053348	NP_057208	N	T	NT	benign
rs1053387	NP_005679	T	N	TN	benign
rs1053401	NP_079179	P	H	PH	probably damaging
rs1053419	NP_004885	I	V	IV	benign
rs1053429	NP_005304	E	V	EV	probably damaging
rs1053435	NP_055908	R	K	RK	benign
rs1053435	NP_663317	R	K	RK	benign
rs1053443	NP_060377	S	L	SL	possibly damaging
rs1053465	NP_003934	S	P	SP	benign
rs1053526	NP_005178	E	G	EG	probably damaging
rs1053526	NP_787127	E	G	EG	probably damaging
rs1053564	NP_775969	M	I	MI	benign
rs1053566	NP_660186	L	F	LF	benign
rs1053574	NP_009005	T	P	TP	possibly damaging
rs1053593	NP_005478	G	V	GV	possibly damaging
rs1053600	NP_006176	L	Q	LQ	possibly damaging
rs1053601	NP_006176	K	E	KE	benign
rs1053611	NP_115971	V	I	VI	benign

rs1053620	NP_115971	D	N	DN	benign
rs1053643	NP_115971	K	E	KE	benign
rs1053665	NP_055906	T	I	TI	benign
rs1053668	NP_001212	Q	E	QE	possibly damaging
rs1053668	NP_742126	Q	E	QE	possibly damaging
rs1053668	NP_742125	Q	E	QE	possibly damaging
rs1053680	NP_060388	I	V	IV	benign
rs1053683	NP_057005	S	F	SF	benign
rs1053737	NP_068799	T	R	TR	benign
rs1053765	NP_689572	R	K	RK	benign
rs1053808	NP_003307	M	T	MT	benign
rs1053812	NP_003167	E	D	ED	benign
rs1053813	NP_004891	R	H	RH	benign
rs1053814	NP_002262	L	I	LI	benign
rs1053819	NP_004244	T	P	TP	possibly damaging
rs1053833	NP_003307	N	H	NH	benign
rs1053838	NP_003307	A	E	AE	benign
rs1053839	NP_848578	P	S	PS	benign
rs1053840	NP_003307	P	S	PS	benign
rs1053844	NP_002969	C	Y	CY	probably damaging
rs1053874	NP_005214	R	Q	RQ	benign
rs1053880	NP_003639	L	V	LV	benign
rs1053880	NP_690618	L	V	LV	benign
rs1053885	NP_002166	M	L	ML	benign
rs1053892	NP_003901	E	Q	EQ	benign
rs1053911	NP_002903	H	Q	HQ	benign
rs1053912	NP_002903	Q	E	QE	benign
rs1053913	NP_002903	E	K	EK	benign
rs1053920	NP_002463	D	E	DE	benign
rs1053926	NP_055056	H	Y	HY	benign
rs1053927	NP_061971	E	V	EV	benign
rs1053959	NP_036344	S	A	SA	benign
rs1053966	NP_003307	H	D	HD	probably damaging
rs1053993	NP_848572	T	S	TS	benign
rs1054007	NP_005884	S	G	SG	benign
rs1054079	NP_060309	Q	L	QL	possibly damaging
rs1054090	XP_035572	Q	R	QR	benign
rs1054113	NP_000485	M	I	MI	benign
rs1054113	NP_570134	M	I	MI	benign
rs1054138	NP_001287	Q	L	QL	possibly damaging
rs1054139	NP_001287	Q	H	QH	benign
rs1054202	NP_277031	D	N	DN	benign
rs1054202	NP_277032	D	N	DN	benign
rs1054202	NP_277033	D	N	DN	benign
rs1054202	NP_277035	D	N	DN	benign
rs1054202	NP_000179	N	D	ND	benign



rs1054203	NP_277031	L	M	LM	benign
rs1054203	NP_277032	L	M	LM	benign
rs1054203	NP_277033	L	M	LM	benign
rs1054203	NP_277035	L	M	LM	benign
rs1054203	NP_000179	M	L	ML	benign
rs1054209	NP_112578	W	G	WG	probably damaging
rs1054222	NP_005012	T	P	TP	benign
rs1054223	NP_112578	L	F	LF	benign
rs1054224	NP_001093	E	D	ED	benign
rs1054225	NP_001093	E	D	ED	benign
rs1054229	NP_001093	K	R	KR	benign
rs1054235	NP_001093	S	C	SC	possibly damaging
rs1054237	NP_001093	S	T	ST	possibly damaging
rs1054239	NP_001093	L	M	LM	benign
rs1054257	NP_958800	E	K	EK	benign
rs1054267	NP_002228	G	D	GD	probably damaging
rs1054271	NP_079488	S	P	SP	benign
rs1054276	NP_958800	A	P	AP	benign
rs1054331	NP_821080	C	S	CS	probably damaging
rs1054331	NP_001060	S	C	SC	probably damaging
rs1054339	XP_371401	G	C	GC	benign
rs1054341	XP_371401	G	V	GV	benign
rs1054342	XP_371401	Q	P	QP	possibly damaging
rs1054343	XP_371401	L	F	LF	benign
rs1054344	XP_371401	S	T	ST	benign
rs1054348	XP_371401	A	V	AV	benign
rs1054349	XP_371401	M	K	MK	benign
rs1054350	XP_371401	M	I	MI	benign
rs1054353	XP_371401	M	L	ML	benign
rs1054354	XP_371401	K	E	KE	benign
rs1054355	XP_371401	R	Q	RQ	benign
rs1054358	XP_371401	R	G	RG	possibly damaging
rs1054361	XP_371401	R	K	RK	benign
rs1054362	XP_371401	K	R	KR	benign
rs1054365	XP_371401	E	K	EK	benign
rs1054374	NP_000511	S	I	SI	benign
rs1054392	NP_015556	E	K	EK	benign
rs1054403	NP_004981	A	D	AD	possibly damaging
rs1054406	NP_038476	E	G	EG	possibly damaging
rs1054406	NP_872589	E	G	EG	possibly damaging
rs1054412	NP_005054	A	T	AT	possibly damaging
rs1054423	NP_006381	F	I	FI	benign
rs1054436	XP_497371	V	M	VM	benign
rs1054480	NP_055059	P	S	PS	probably damaging
rs1054485	NP_060825	I	L	IL	benign
rs1054515	NP_112580	V	I	VI	benign

rs1054550	NP_775786	T	N	TN	benign
rs1054563	NP_898881	D	E	DE	benign
rs1054565	NP_005671	T	A	TA	benign
rs1054567	NP_219480	G	S	GS	possibly damaging
rs1054570	NP_898881	G	D	GD	possibly damaging
rs1054602	NP_005221	N	K	NK	benign
rs1054614	NP_057510	L	P	LP	possibly damaging
rs1054624	NP_000452	T	I	TI	possibly damaging
rs1054627	NP_004958	G	E	GE	benign
rs1054628	NP_004958	V	A	VA	benign
rs1054629	NP_004958	E	D	ED	benign
rs1054633	NP_005483	A	P	AP	benign
rs1054644	NP_066921	R	H	RH	benign
rs1054645	NP_066921	H	R	HR	benign
rs1054655	NP_005530	R	P	RP	possibly damaging
rs1054686	NP_659411	Y	H	YH	benign
rs1054707	XP_371837	N	S	NS	benign
rs1054708	NP_000360	H	Y	HY	benign
rs1054770	NP_055234	G	S	GS	possibly damaging
rs1054778	XP_375024	Q	R	QR	benign
rs1054780	XP_375024	K	R	KR	benign
rs1054782	XP_375024	T	A	TA	benign
rs1054785	XP_375024	M	L	ML	benign
rs1054792	NP_059145	E	K	EK	benign
rs1054792	NP_004433	E	K	EK	benign
rs1054797	NP_085055	R	Q	RQ	benign
rs1054865	NP_001479	M	V	MV	possibly damaging
rs1054865	NP_597683	M	V	MV	possibly damaging
rs1054895	NP_004076	V	I	VI	benign
rs1054901	NP_071905	A	D	AD	benign
rs1054913	NP_004290	R	K	RK	benign
rs1054914	NP_004290	L	P	LP	possibly damaging
rs1054940	NP_060199	R	K	RK	benign
rs1054940	NP_573441	R	K	RK	benign
rs1054968	NP_872423	K	E	KE	possibly damaging
rs1054977	XP_058743	A	T	AT	benign
rs1055024	NP_006640	N	K	NK	benign
rs1055027	NP_006640	R	Q	RQ	benign
rs1055029	NP_006640	S	P	SP	benign
rs1055030	NP_006640	K	N	KN	benign
rs1055031	NP_006640	C	S	CS	benign
rs1055103	NP_001983	A	P	AP	benign
rs1055130	NP_076999	R	H	RH	possibly damaging
rs1055153	NP_056287	P	Q	PQ	possibly damaging
rs1055202	NP_055139	P	L	PL	benign
rs1055226	NP_775179	V	F	VF	possibly damaging

rs1055226	NP_963862	V	F	VF	possibly damaging
rs1055226	NP_055652	V	F	VF	possibly damaging
rs1055244	NP_775765	T	P	TP	benign
rs1055246	NP_003648	P	S	PS	benign
rs1055308	NP_001745	S	R	SR	benign
rs1055309	NP_001745	S	R	SR	benign
rs1055358	XP_372121	S	P	SP	possibly damaging
rs1055358	NP_060046	P	S	PS	probably damaging
rs1055465	NP_003599	N	K	NK	possibly damaging
rs1055466	NP_003599	L	I	LI	benign
rs1055467	NP_003599	F	I	FI	benign
rs1055475	NP_002351	A	S	AS	benign
rs1055481	NP_006464	D	H	DH	possibly damaging
rs1055497	XP_291344	E	A	EA	benign
rs1055564	NP_006433	P	T	PT	possibly damaging
rs1055585	XP_371230	D	Y	DY	possibly damaging
rs1055587	NP_067004	F	S	FS	possibly damaging
rs1055612	NP_006433	S	F	SF	benign
rs1055621	NP_060666	F	L	FL	probably damaging
rs1055666	XP_058720	Q	K	QK	benign
rs1055667	XP_058720	R	Q	RQ	benign
rs1055682	NP_997301	G	R	GR	benign
rs1055687	NP_065986	G	C	GC	probably damaging
rs1055688	NP_065986	A	T	AT	benign
rs1055750	NP_663299	V	I	VI	benign
rs1055774	NP_620412	Y	F	YF	benign
rs1055796	NP_892121	Y	H	YH	benign
rs1055812	NP_036361	I	F	IF	benign
rs1055851	NP_063944	H	Q	HQ	benign
rs1055859	NP_116248	H	P	HP	probably damaging
rs1055935	NP_005407	L	V	LV	benign
rs1056020	NP_778203	V	L	VL	benign
rs1056020	NP_001834	V	L	VL	benign
rs1056042	NP_061946	C	Y	CY	probably damaging
rs1056078	NP_003740	S	L	SL	benign
rs1056095	NP_620126	Y	D	YD	probably damaging
rs1056104	NP_079051	G	D	GD	possibly damaging
rs1056137	NP_060141	E	K	EK	benign
rs1056147	NP_056468	R	C	RC	probably damaging
rs1056148	NP_612474	A	T	AT	benign
rs1056149	NP_689763	A	G	AG	benign
rs1056185	NP_060770	N	S	NS	probably damaging
rs1056191	NP_005125	E	K	EK	benign
rs1056216	NP_999626	A	G	AG	benign
rs1056296	NP_079058	H	R	HR	possibly damaging
rs1056320	NP_659410	H	N	HN	benign

rs1056396	NP_060357	H	P	HP	probably damaging
rs1056445	NP_002444	N	T	NT	benign
rs1056463	NP_002225	L	Q	LQ	probably damaging
rs1056464	NP_002225	P	S	PS	probably damaging
rs1056478	NP_004889	E	K	EK	possibly damaging
rs1056505	NP_004238	G	V	GV	probably damaging
rs1056513	NP_005790	G	S	GS	benign
rs1056513	NP_795352	G	S	GS	benign
rs1056513	NP_795353	G	S	GS	benign
rs1056522	NP_690849	R	Q	RQ	benign
rs1056523	NP_690849	A	E	AE	benign
rs1056536	NP_003250	A	T	AT	benign
rs1056538	NP_003250	I	V	IV	benign
rs1056543	NP_434698	S	T	ST	benign
rs1056543	NP_005789	S	T	ST	benign
rs1056543	NP_998755	S	T	ST	benign
rs1056569	NP_079472	V	F	VF	benign
rs1056572	NP_005145	N	K	NK	possibly damaging
rs1056573	NP_005145	Q	K	QK	benign
rs1056574	NP_005145	E	K	EK	benign
rs1056577	NP_005145	A	G	AG	benign
rs1056584	NP_000913	A	V	AV	benign
rs1056596	NP_000766	L	Q	LQ	possibly damaging
rs1056602	NP_005647	K	N	KN	benign
rs1056614	NP_003459	S	T	ST	benign
rs1056642	NP_775774	M	I	MI	benign
rs1056643	NP_775774	S	A	SA	benign
rs1056645	NP_775774	Y	D	YD	probably damaging
rs1056673	NP_005246	D	G	DG	benign
rs1056677	NP_859531	G	R	GR	benign
rs1056677	NP_002544	G	R	GR	benign
rs1056683	XP_045423	V	L	VL	benign
rs1056685	NP_036423	H	R	HR	possibly damaging
rs1056694	NP_005501	S	T	ST	benign
rs1056695	NP_940819	E	K	EK	benign
rs1056695	NP_068767	E	K	EK	benign
rs1056717	NP_005683	R	S	RS	benign
rs1056717	NP_009120	R	S	RS	benign
rs1056742	NP_597994	K	Q	KQ	benign
rs1056742	NP_002866	K	Q	KQ	possibly damaging
rs1056771	NP_002423	V	L	VL	benign
rs1056784	NP_002420	P	S	PS	possibly damaging
rs1056784	NP_073628	P	S	PS	probably damaging
rs1056787	NP_001803	D	G	DG	benign
rs1056790	NP_877423	D	N	DN	benign
rs1056790	NP_005905	D	N	DN	benign

rs1056799	NP_000839	M	K	MK	benign
rs1056804	NP_150282	N	K	NK	benign
rs1056805	NP_150282	R	W	RW	benign
rs1056814	NP_150282	I	V	IV	benign
rs1056818	NP_005666	L	V	LV	benign
rs1056818	NP_150282	V	L	VL	benign
rs1056820	NP_758961	T	S	TS	benign
rs1056827	NP_000095	A	S	AS	benign
rs1056836	NP_000095	V	L	VL	benign
rs1056837	NP_000095	D	E	DE	benign
rs1056852	NP_008971	A	T	AT	benign
rs1056852	NP_653334	A	T	AT	benign
rs1056853	NP_008971	G	A	GA	benign
rs1056853	NP_653334	G	A	GA	benign
rs1056853	NP_653333	G	A	GA	benign
rs1056861	NP_955391	R	K	RK	benign
rs1056861	NP_955392	R	K	RK	benign
rs1056861	NP_955393	R	K	RK	benign
rs1056861	NP_955394	R	K	RK	benign
rs1056861	NP_955395	R	K	RK	benign
rs1056861	NP_003279	R	K	RK	benign
rs1056892	NP_001227	V	M	VM	benign
rs1056899	NP_055861	I	V	IV	benign
rs1056918	NP_006368	T	S	TS	benign
rs1056921	NP_001842	K	R	KR	benign
rs1056921	NP_511040	K	R	KR	benign
rs1056923	NP_001842	L	V	LV	benign
rs1056923	NP_511040	L	V	LV	benign
rs1056925	NP_003480	A	T	AT	benign
rs1056933	NP_620309	E	G	EG	benign
rs1056936	NP_620309	H	Y	HY	possibly damaging
rs1056940	NP_004714	E	K	EK	benign
rs1056941	NP_004714	D	A	DA	benign
rs1056942	NP_004714	M	L	ML	benign
rs1056943	NP_004714	L	M	LM	benign
rs1056958	NP_060404	H	Y	HY	benign
rs1056959	NP_060404	R	K	RK	benign
rs1056960	NP_060404	S	P	SP	benign
rs1056972	NP_003370	R	G	RG	possibly damaging
rs1056973	NP_003370	K	E	KE	benign
rs1056974	NP_003370	K	R	KR	benign
rs1056980	NP_079341	N	D	ND	benign
rs1056997	NP_004435	E	D	ED	benign
rs1056998	NP_997704	F	S	FS	probably damaging
rs1057000	NP_112557	L	R	LR	benign
rs1057000	NP_003709	L	R	LR	benign

rs1057018	NP_005522	H	D	HD	probably damaging
rs1057027	NP_005522	R	S	RS	benign
rs1057028	NP_005522	Y	N	YN	probably damaging
rs1057036	NP_002939	H	P	HP	benign
rs1057037	NP_002617	D	V	DV	benign
rs1057044	NP_006155	R	K	RK	benign
rs1057053	NP_005522	S	C	SC	benign
rs1057060	NP_005225	L	M	LM	benign
rs1057066	NP_005815	A	G	AG	possibly damaging
rs1057075	NP_008970	H	L	HL	benign
rs1057077	NP_964013	V	E	VE	possibly damaging
rs1057078	NP_942568	L	P	LP	probably damaging
rs1057078	NP_055858	L	P	LP	probably damaging
rs1057080	NP_005522	F	S	FS	possibly damaging
rs1057088	NP_059990	V	D	VD	benign
rs1057090	NP_078872	V	A	VA	benign
rs1057091	NP_078872	P	S	PS	benign
rs1057093	NP_059990	S	F	SF	possibly damaging
rs1057099	NP_005813	S	G	SG	benign
rs1057114	NP_542970	G	A	GA	benign
rs1057149	NP_000584	R	Q	RQ	benign
rs1057177	NP_004945	Q	P	QP	benign
rs1057177	NP_059672	Q	P	QP	benign
rs1057178	NP_004945	F	S	FS	benign
rs1057178	NP_059672	F	S	FS	benign
rs1057182	NP_954572	G	V	GV	probably damaging
rs1057190	NP_112582	K	E	KE	benign
rs1057191	NP_000310	T	I	TI	benign
rs1057192	XP_496823	G	R	GR	possibly damaging
rs1057204	NP_005495	G	S	GS	benign
rs1057211	NP_671488	H	Y	HY	possibly damaging
rs1057216	NP_660331	E	D	ED	benign
rs1057238	NP_055472	A	V	AV	benign
rs1057251	NP_060417	V	A	VA	benign
rs1057274	NP_002021	D	H	DH	possibly damaging
rs1057287	NP_066278	V	L	VL	benign
rs1057288	NP_066278	V	L	VL	benign
rs1057306	NP_079492	P	T	PT	benign
rs1057319	NP_066278	I	R	IR	benign
rs1057327	NP_009087	G	S	GS	benign
rs1057335	NP_000925	R	K	RK	benign
rs1057339	XP_372226	T	A	TA	benign
rs1057340	XP_372226	N	S	NS	benign
rs1057341	XP_372226	D	N	DN	benign
rs1057343	XP_372226	T	R	TR	benign
rs1057353	NP_008884	A	P	AP	probably damaging

rs1057362	NP_000946	A	T	AT	benign
rs1057411	NP_059973	T	P	TP	benign
rs1057539	NP_739575	N	D	ND	benign
rs1057539	NP_079512	N	D	ND	benign
rs1057562	NP_009180	S	P	SP	benign
rs1057562	NP_057369	S	P	SP	benign
rs1057580	NP_008994	L	F	LF	possibly damaging
rs1057633	NP_075252	D	V	DV	possibly damaging
rs1057633	NP_998812	D	V	DV	probably damaging
rs1057635	NP_597724	L	F	LF	benign
rs1057744	NP_002217	E	K	EK	benign
rs1057744	NP_660142	E	K	EK	benign
rs1057746	NP_054740	R	C	RC	benign
rs1057747	NP_002904	R	L	RL	probably damaging
rs1057749	NP_002904	G	D	GD	possibly damaging
rs1057751	NP_002904	S	A	SA	benign
rs1057758	NP_060126	T	I	TI	benign
rs1057761	NP_060126	R	T	RT	benign
rs1057764	NP_001547	E	G	EG	probably damaging
rs1057767	NP_002246	V	L	VL	benign
rs1057774	NP_000710	S	P	SP	benign
rs1057795	NP_006272	D	E	DE	benign
rs1057797	NP_004270	C	F	CF	probably damaging
rs1057864	NP_005069	V	A	VA	benign
rs1057866	NP_005069	H	D	HD	benign
rs1057868	NP_000932	V	A	VA	benign
rs1057872	NP_000100	Q	L	QL	possibly damaging
rs1057872	NP_003997	Q	L	QL	possibly damaging
rs1057872	NP_003998	Q	L	QL	possibly damaging
rs1057872	NP_004000	Q	L	QL	possibly damaging
rs1057872	NP_004002	Q	L	QL	possibly damaging
rs1057872	NP_004003	Q	L	QL	possibly damaging
rs1057872	NP_004001	Q	L	QL	possibly damaging
rs1057896	NP_127493	L	V	LV	benign
rs1057896	NP_127494	L	V	LV	benign
rs1057896	NP_001509	L	V	LV	benign
rs1057896	NP_127492	L	V	LV	benign
rs1057907	NP_004809	L	F	LF	benign
rs1057909	NP_000762	Y	C	YC	possibly damaging
rs1057910	NP_000762	I	L	IL	benign
rs1057913	NP_114066	D	A	DA	possibly damaging
rs1057913	NP_114037	D	A	DA	possibly damaging
rs1057913	NP_113599	D	A	DA	possibly damaging
rs1057913	NP_061721	D	A	DA	possibly damaging
rs1057913	NP_061722	D	A	DA	possibly damaging
rs1057913	NP_061733	D	A	DA	probably damaging

rs1057913	NP_061732	D	A	DA	probably damaging
rs1057913	NP_061730	D	A	DA	probably damaging
rs1057913	NP_061726	D	A	DA	probably damaging
rs1057913	NP_114063	D	A	DA	probably damaging
rs1057913	NP_061734	D	A	DA	probably damaging
rs1057913	NP_061731	D	A	DA	probably damaging
rs1057913	NP_061729	D	A	DA	probably damaging
rs1057913	NP_061728	D	A	DA	probably damaging
rs1057913	NP_061727	D	A	DA	probably damaging
rs1057913	NP_061725	D	A	DA	probably damaging
rs1057913	NP_061724	D	A	DA	probably damaging
rs1057913	NP_061723	D	A	DA	probably damaging
rs1057932	NP_919423	A	E	AE	benign
rs1057932	NP_008979	A	E	AE	benign
rs1057933	NP_919423	S	N	SN	benign
rs1057933	NP_008979	S	N	SN	benign
rs1057940	NP_037446	T	P	TP	benign
rs1057941	XP_496413	R	W	RW	benign
rs1057942	NP_000148	S	G	SG	benign
rs1057950	NP_004732	R	S	RS	benign
rs1057986	NP_005985	A	P	AP	benign
rs1057989	NP_005985	Q	L	QL	probably damaging
rs1058006	NP_003827	D	G	DG	benign
rs1058009	NP_003827	N	S	NS	benign
rs1058017	NP_075567	L	R	LR	benign
rs1058034	NP_891847	H	R	HR	possibly damaging
rs1058034	NP_061152	H	R	HR	possibly damaging
rs1058035	NP_891847	P	L	PL	probably damaging
rs1058035	NP_061152	P	L	PL	probably damaging
rs1058060	XP_497072	K	N	KN	benign
rs1058063	NP_000315	D	N	DN	benign
rs1058069	NP_000508	T	N	TN	benign
rs1058069	NP_000549	T	N	TN	benign
rs1058084	NP_112536	D	N	DN	benign
rs1058084	NP_002776	N	D	ND	benign
rs1058084	NP_976032	N	D	ND	benign
rs1058085	NP_002776	A	T	AT	benign
rs1058085	NP_976032	A	T	AT	benign
rs1058085	NP_112536	T	A	TA	benign
rs1058086	NP_002776	L	Q	LQ	benign
rs1058086	NP_976032	L	Q	LQ	benign
rs1058086	NP_112536	Q	L	QL	benign
rs1058092	NP_112536	R	W	RW	benign
rs1058092	NP_002776	W	R	WR	benign
rs1058092	NP_976032	W	R	WR	benign
rs1058093	XP_497072	P	L	PL	benign



rs1058095	NP_112536	D	E	DE	benign
rs1058103	NP_112536	Q	L	QL	benign
rs1058106	NP_112536	N	K	NK	benign
rs1058134	NP_002028	Q	K	QK	benign
rs1058146	NP_477515	L	F	LF	benign
rs1058146	NP_919296	L	F	LF	benign
rs1058146	NP_919440	L	F	LF	benign
rs1058172	NP_000097	R	H	RH	probably damaging
rs1058180	NP_932164	T	A	TA	benign
rs1058180	NP_055177	T	A	TA	benign
rs1058181	NP_932164	L	V	LV	benign
rs1058181	NP_055177	L	V	LV	benign
rs1058200	NP_000601	Y	S	YS	possibly damaging
rs1058219	NP_000250	R	C	RC	possibly damaging
rs1058223	NP_002776	M	T	MT	benign
rs1058259	NP_002772	N	K	NK	possibly damaging
rs1058285	NP_002772	H	R	HR	benign
rs1058299	NP_065916	E	K	EK	benign
rs1058308	NP_620706	A	P	AP	benign
rs1058308	NP_003066	A	P	AP	benign
rs1058334	NP_000508	D	E	DE	probably damaging
rs1058334	NP_000549	D	E	DE	probably damaging
rs1058361	NP_997641	G	V	GV	possibly damaging
rs1058361	NP_997647	G	V	GV	probably damaging
rs1058370	NP_004422	I	N	IN	probably damaging
rs1058371	NP_004422	I	F	IF	benign
rs1058372	NP_004422	K	N	KN	possibly damaging
rs1058388	NP_064540	G	C	GC	probably damaging
rs1058396	NP_056949	N	D	ND	benign
rs1058402	NP_006496	A	T	AT	benign
rs1058407	NP_001762	H	Y	HY	benign
rs1058411	NP_872339	P	S	PS	possibly damaging
rs1058446	NP_061819	E	D	ED	benign
rs1058456	NP_112536	Y	D	YD	benign
rs1058458	NP_006194	C	R	CR	benign
rs1058464	NP_112536	T	P	TP	benign
rs1058465	NP_148978	D	E	DE	benign
rs1058466	NP_112536	V	A	VA	benign
rs1058470	NP_112536	L	F	LF	benign
rs1058471	NP_112536	L	I	LI	benign
rs1058472	NP_003316	L	M	LM	benign
rs1058473	NP_112536	L	H	LH	possibly damaging
rs1058482	NP_006741	D	E	DE	benign
rs1058519	XP_371116	R	Q	RQ	possibly damaging
rs1058524	NP_003810	D	G	DG	probably damaging
rs1058525	XP_497051	G	D	GD	possibly damaging

rs1058527	XP_371116	H	Q	HQ	probably damaging
rs1058532	XP_371116	N	H	NH	possibly damaging
rs1058536	XP_371116	D	E	DE	benign
rs1058545	NP_002367	S	T	ST	benign
rs1058546	NP_002367	A	D	AD	benign
rs1058547	NP_036458	E	V	EV	benign
rs1058559	NP_001925	A	P	AP	benign
rs1058559	NP_612138	A	P	AP	benign
rs1058574	NP_476519	P	L	PL	benign
rs1058576	NP_000612	S	F	SF	possibly damaging
rs1058587	NP_004855	D	H	DH	benign
rs1058609	NP_976028	V	I	VI	benign
rs1058609	NP_005340	V	I	VI	benign
rs1058609	NP_056958	V	I	VI	benign
rs1058609	NP_976029	V	I	VI	benign
rs1058617	NP_055045	Q	H	QH	benign
rs1058646	NP_003625	E	K	EK	benign
rs1058652	NP_008836	L	P	LP	benign
rs1058661	NP_008836	E	Q	EQ	benign
rs1058668	NP_008836	D	G	DG	benign
rs1058671	NP_008836	V	E	VE	benign
rs1058674	NP_002773	L	F	LF	benign
rs1058675	NP_008836	N	Y	NY	benign
rs1058679	NP_002773	M	T	MT	benign
rs1058680	NP_002773	R	L	RL	benign
rs1058688	NP_002773	R	S	RS	benign
rs1058689	NP_008836	K	Q	KQ	benign
rs1058692	NP_008836	E	K	EK	benign
rs1058693	NP_008836	T	N	TN	benign
rs1058695	NP_008836	N	K	NK	benign
rs1058697	NP_008836	L	F	LF	benign
rs1058698	NP_002775	K	N	KN	benign
rs1058698	NP_002773	K	N	KN	benign
rs1058701	NP_056448	E	D	ED	benign
rs1058704	NP_066296	N	K	NK	benign
rs1058710	NP_002773	L	S	LS	benign
rs1058711	NP_002775	A	T	AT	benign
rs1058716	NP_008836	N	T	NT	benign
rs1058718	NP_002771	K	E	KE	benign
rs1058725	NP_002773	P	R	PR	benign
rs1058748	NP_008836	R	H	RH	benign
rs1058748	XP_496314	R	H	RH	benign
rs1058763	NP_008836	Q	E	QE	benign
rs1058763	XP_496314	Q	E	QE	benign
rs1058768	NP_055279	S	P	SP	probably damaging
rs1058770	NP_008836	E	G	EG	benign

rs1058770	XP_496314	G	E	GE	benign
rs1058779	XP_496314	S	P	SP	benign
rs1058779	NP_002774	S	P	SP	benign
rs1058793	NP_065186	V	I	VI	benign
rs1058808	NP_004439	A	P	AP	possibly damaging
rs1058813	NP_068603	H	P	HP	probably damaging
rs1058814	NP_068603	R	K	RK	benign
rs1058816	NP_963918	R	K	RK	benign
rs1058816	NP_055832	R	K	RK	benign
rs1058816	NP_963920	R	K	RK	possibly damaging
rs1058821	XP_496034	E	Q	EQ	benign
rs1058822	XP_496034	E	D	ED	benign
rs1058823	XP_496034	K	E	KE	benign
rs1058838	NP_031375	T	A	TA	benign
rs1058859	NP_000619	A	D	AD	benign
rs1058861	NP_000619	A	S	AS	benign
rs1058875	NP_001087	N	D	ND	benign
rs1058875	NP_942127	N	D	ND	benign
rs1058877	NP_079413	N	Y	NY	benign
rs1058884	NP_001854	E	K	EK	benign
rs1058885	NP_757351	L	P	LP	benign
rs1058930	NP_000761	M	I	MI	benign
rs1058930	NP_110518	M	I	MI	possibly damaging
rs1058949	NP_976221	A	P	AP	benign
rs1058956	NP_008836	E	K	EK	benign
rs1058960	NP_008836	I	V	IV	benign
rs1059011	NP_001609	Q	H	QH	benign
rs1059040	NP_001609	Y	C	YC	probably damaging
rs1059047	NP_005402	V	A	VA	benign
rs1059049	NP_005402	M	T	MT	probably damaging
rs1059050	NP_005402	M	I	MI	probably damaging
rs1059052	NP_005402	D	N	DN	benign
rs1059053	NP_005402	I	V	IV	benign
rs1059054	NP_005402	C	R	CR	benign
rs1059060	NP_000526	N	S	NS	benign
rs1059074	XP_379323	M	V	MV	benign
rs1059108	NP_075066	P	L	PL	probably damaging
rs1059116	XP_377962	P	L	PL	benign
rs1059128	XP_377962	H	R	HR	benign
rs1059145	NP_821133	K	R	KR	benign
rs1059166	NP_003805	F	L	FL	benign
rs1059175	NP_150254	H	P	HP	probably damaging
rs1059175	NP_000968	H	P	HP	probably damaging
rs1059178	NP_038481	F	V	FV	benign
rs1059179	NP_038481	F	L	FL	benign
rs1059189	XP_371018	G	R	GR	possibly damaging

rs1059189	XP_085606	R	G	RG	possibly damaging
rs1059194	NP_060126	L	F	LF	benign
rs1059199	NP_060126	E	K	EK	benign
rs1059228	NP_000971	L	V	LV	benign
rs1059233	NP_008916	R	W	RW	probably damaging
rs1059240	NP_004829	R	S	RS	benign
rs1059333	NP_683866	R	H	RH	benign
rs1059333	NP_683867	R	H	RH	benign
rs1059333	NP_683868	R	H	RH	benign
rs1059333	NP_683871	R	H	RH	benign
rs1059333	NP_003781	R	H	RH	benign
rs1059345	NP_002115	E	D	ED	benign
rs1059345	NP_002116	H	Q	HQ	benign
rs1059346	NP_002115	I	F	IF	benign
rs1059346	NP_002116	I	F	IF	benign
rs1059352	NP_072049	G	A	GA	benign
rs1059353	NP_068818	G	E	GE	benign
rs1059369	NP_004855	S	T	ST	benign
rs1059383	NP_570854	V	G	VG	possibly damaging
rs1059383	NP_000453	V	G	VG	probably damaging
rs1059383	NP_570853	V	G	VG	probably damaging
rs1059421	NP_659731	E	K	EK	benign
rs1059440	NP_113660	H	R	HR	benign
rs1059443	NP_002878	R	G	RG	benign
rs1059463	NP_002107	Q	H	QH	benign
rs1059467	NP_002107	S	A	SA	benign
rs1059476	NP_004208	T	M	TM	benign
rs1059488	NP_002107	F	L	FL	benign
rs1059491	NP_803564	N	T	NT	benign
rs1059491	NP_001045	N	T	NT	benign
rs1059508	NP_055211	R	H	RH	benign
rs1059508	NP_542198	R	H	RH	benign
rs1059510	NP_005507	N	K	NK	probably damaging
rs1059517	NP_002107	K	Q	KQ	benign
rs1059520	NP_002107	R	H	RH	benign
rs1059522	NP_002063	F	L	FL	probably damaging
rs1059523	NP_002063	L	P	LP	probably damaging
rs1059526	NP_002107	A	T	AT	benign
rs1059527	NP_002063	I	V	IV	benign
rs1059531	NP_002063	E	D	ED	benign
rs1059536	NP_002107	H	R	HR	benign
rs1059537	NP_002107	E	Q	EQ	benign
rs1059539	NP_002107	A	V	AV	benign
rs1059542	NP_002107	D	E	DE	benign
rs1059551	NP_002115	C	Y	CY	benign
rs1059552	NP_002115	M	L	ML	benign

rs1059553	NP_002115	T	A	TA	benign
rs1059556	NP_002115	P	R	PR	benign
rs1059569	NP_072049	Y	F	YF	benign
rs1059572	NP_002115	L	F	LF	benign
rs1059573	NP_002116	H	D	HD	benign
rs1059576	NP_002115	N	H	NH	benign
rs1059579	NP_005220	N	S	NS	benign
rs1059580	NP_072049	L	V	LV	benign
rs1059581	NP_072049	L	P	LP	probably damaging
rs1059582	NP_002115	T	R	TR	possibly damaging
rs1059586	NP_002115	Y	S	YS	benign
rs1059596	NP_002115	A	G	AG	benign
rs1059596	NP_002116	A	G	AG	benign
rs1059603	NP_004070	M	T	MT	possibly damaging
rs1059604	NP_004070	S	T	ST	benign
rs1059614	NP_068818	P	T	PT	benign
rs1059614	NP_072049	P	T	PT	benign
rs1059632	NP_002107	A	S	AS	benign
rs1059633	NP_068818	S	G	SG	benign
rs1059635	NP_000966	H	P	HP	probably damaging
rs1059644	NP_002107	Q	K	QK	benign
rs1059662	NP_002115	T	I	TI	benign
rs1059662	NP_068818	T	I	TI	benign
rs1059702	NP_001560	S	F	SF	benign
rs1059703	NP_001560	L	S	LS	benign
rs1059712	NP_005542	A	T	AT	benign
rs1059768	NP_057491	V	M	VM	benign
rs1059780	NP_998839	R	Q	RQ	possibly damaging
rs1059784	NP_005650	G	D	GD	benign
rs1059785	NP_005650	S	T	ST	benign
rs1059815	NP_277025	K	N	KN	benign
rs1059815	NP_277022	K	N	KN	benign
rs1059815	NP_277069	N	K	NK	benign
rs1059815	NP_277074	N	K	NK	benign
rs1059854	NP_002462	T	S	TS	benign
rs1059868	NP_851421	M	T	MT	benign
rs1059868	NP_851422	M	T	MT	benign
rs1059868	NP_055818	M	T	MT	benign
rs1059868	XP_496064	M	T	MT	benign
rs1059896	NP_002107	V	M	VM	benign
rs1059901	XP_290351	G	V	GV	probably damaging
rs1059912	NP_004226	D	N	DN	benign
rs1059913	NP_004226	T	S	TS	benign
rs1059914	NP_004226	L	F	LF	benign
rs1059915	NP_004226	D	E	DE	benign
rs1059968	NP_001652	T	N	TN	possibly damaging

rs1059983	NP_982255	E	D	ED	benign
rs1059983	NP_066953	E	D	ED	benign
rs1060067	NP_150594	L	F	LF	benign
rs1060067	NP_006449	L	F	LF	benign
rs1060070	NP_150594	T	A	TA	benign
rs1060070	NP_006449	T	A	TA	benign
rs1060105	NP_060653	S	N	SN	benign
rs1060108	NP_075563	S	R	SR	possibly damaging
rs1060108	NP_613074	S	R	SR	possibly damaging
rs1060130	NP_065208	V	I	VI	benign
rs1060130	NP_065209	V	I	VI	benign
rs1060130	NP_000028	V	I	VI	benign
rs1060131	NP_065209	V	E	VE	benign
rs1060131	NP_065210	V	E	VE	benign
rs1060132	NP_065209	E	A	EA	benign
rs1060132	NP_065210	E	A	EA	benign
rs1060133	NP_065209	D	E	DE	benign
rs1060133	NP_065210	D	E	DE	benign
rs1060134	NP_065209	P	T	PT	possibly damaging
rs1060134	NP_065210	P	T	PT	possibly damaging
rs1060135	NP_065209	E	D	ED	benign
rs1060135	NP_065210	E	D	ED	benign
rs1060136	NP_065209	L	P	LP	benign
rs1060145	NP_060707	E	G	EG	possibly damaging
rs1060155	NP_003022	A	S	AS	benign
rs1060166	NP_055324	E	D	ED	benign
rs1060167	NP_055324	Q	E	QE	benign
rs1060207	NP_000988	S	F	SF	benign
rs1060212	NP_039663	G	E	GE	benign
rs1060212	NP_000150	G	E	GE	benign
rs1060231	NP_003954	L	F	LF	benign
rs1060242	NP_653251	R	C	RC	probably damaging
rs1060250	NP_003477	N	K	NK	benign
rs1060281	NP_077078	H	R	HR	benign
rs1060281	NP_003285	H	R	HR	benign
rs1060282	NP_036349	P	R	PR	benign
rs1060292	NP_077078	G	D	GD	benign
rs1060292	NP_003285	G	D	GD	benign
rs1060311	NP_438173	D	E	DE	benign
rs1060317	NP_150644	H	P	HP	probably damaging
rs1060317	NP_000964	H	P	HP	probably damaging
rs1060339	NP_000508	N	K	NK	benign
rs1060339	NP_000549	N	K	NK	benign
rs1060346	NP_002115	Y	F	YF	benign
rs1060346	NP_002116	Y	F	YF	benign
rs1060384	NP_005270	F	L	FL	possibly damaging

rs1060390	NP_056368	S	P	SP	benign
rs1060407	NP_002366	S	Y	SY	possibly damaging
rs1060463	NP_067010	N	D	ND	benign
rs1060480	NP_068591	R	S	RS	benign
rs1060575	NP_689878	E	D	ED	benign
rs1060584	NP_060499	L	F	LF	benign
rs1060585	NP_005758	I	V	IV	benign
rs1060614	NP_009123	I	M	IM	benign
rs1060622	NP_057124	I	T	IT	possibly damaging
rs1060663	NP_005639	E	Q	EQ	benign
rs1060742	NP_065830	Q	R	QR	benign
rs1060788	NP_000042	A	T	AT	benign
rs1060807	XP_047025	V	A	VA	benign
rs1060821	NP_000177	R	I	RI	probably damaging
rs1060858	NP_079136	G	E	GE	benign
rs1060874	NP_958357	R	K	RK	benign
rs1060875	NP_958357	T	K	TK	possibly damaging
rs1060876	NP_958357	Q	K	QK	benign
rs1060878	NP_005921	G	R	GR	benign
rs1060878	NP_976230	G	R	GR	benign
rs1060878	NP_976231	G	R	GR	benign
rs1060878	NP_976229	G	R	GR	benign
rs1060878	NP_976232	G	R	GR	benign
rs1060896	NP_004203	R	S	RS	benign
rs1060899	NP_006461	K	N	KN	benign
rs1060900	NP_006461	N	S	NS	benign
rs1060903	XP_085722	G	V	GV	benign
rs1060903	NP_006461	V	G	VG	possibly damaging
rs1060927	XP_036708	Q	R	QR	benign
rs1061002	NP_115820	V	A	VA	benign
rs1061009	NP_000508	H	Q	HQ	benign
rs1061009	NP_000549	H	Q	HQ	benign
rs1061012	NP_004727	T	A	TA	benign
rs1061017	NP_004818	E	Q	EQ	benign
rs1061018	NP_004818	S	F	SF	probably damaging
rs1061024	NP_060190	R	G	RG	possibly damaging
rs1061079	NP_068713	T	P	TP	benign
rs1061079	NP_001690	T	P	TP	benign
rs1061082	NP_004800	P	R	PR	benign
rs1061086	NP_778234	M	R	MR	benign
rs1061086	XP_379858	R	M	RM	benign
rs1061159	NP_060487	T	I	TI	possibly damaging
rs1061170	NP_000177	H	Y	HY	benign
rs1061171	NP_000177	R	T	RT	possibly damaging
rs1061192	NP_001366	R	L	RL	probably damaging
rs1061202	NP_055450	R	G	RG	possibly damaging

rs1061202	NP_852118	R	G	RG	probably damaging
rs1061234	NP_000175	I	T	IT	possibly damaging
rs1061234	NP_000550	T	I	TI	possibly damaging
rs1061263	NP_001988	R	G	RG	benign
rs1061288	NP_055807	N	K	NK	benign
rs1061308	XP_378185	E	V	EV	possibly damaging
rs1061335	NP_864764	G	D	GD	benign
rs1061335	NP_004412	G	D	GD	possibly damaging
rs1061345	NP_569077	M	I	MI	benign
rs1061345	NP_569075	M	I	MI	probably damaging
rs1061345	NP_569076	M	I	MI	probably damaging
rs1061345	NP_002830	M	I	MI	probably damaging
rs1061347	NP_056386	E	K	EK	benign
rs1061348	NP_056386	G	C	GC	probably damaging
rs1061380	NP_004376	I	L	IL	benign
rs1061382	NP_150644	E	K	EK	benign
rs1061382	NP_000964	E	K	EK	benign
rs1061409	NP_065086	V	I	VI	benign
rs1061417	NP_068819	V	F	VF	benign
rs1061417	NP_068822	V	F	VF	benign
rs1061417	NP_004952	V	F	VF	benign
rs1061417	NP_068830	V	F	VF	possibly damaging
rs1061436	NP_055318	E	Q	EQ	benign
rs1061472	NP_000044	K	R	KR	benign
rs1061489	NP_003946	H	Y	HY	probably damaging
rs1061493	NP_002151	L	V	LV	benign
rs1061494	NP_002151	Q	R	QR	benign
rs1061502	NP_004022	E	K	EK	benign
rs1061502	NP_001563	K	E	KE	benign
rs1061502	NP_004020	K	E	KE	benign
rs1061518	NP_004159	F	V	FV	possibly damaging
rs1061519	NP_004159	D	E	DE	benign
rs1061520	NP_004159	K	E	KE	benign
rs1061522	NP_689739	Q	K	QK	benign
rs1061522	NP_995585	Q	K	QK	benign
rs1061534	NP_060662	F	L	FL	possibly damaging
rs1061542	NP_005677	E	V	EV	possibly damaging
rs1061543	NP_000977	L	F	LF	possibly damaging
rs1061604	NP_000753	N	S	NS	benign
rs1061622	NP_001057	M	R	MR	benign
rs1061679	NP_006660	P	L	PL	benign
rs1061680	NP_006660	T	I	TI	benign
rs1061681	NP_006660	I	S	IS	benign
rs1061683	NP_006660	I	V	IV	benign
rs1061687	NP_003609	R	G	RG	benign
rs1061704	NP_004468	T	S	TS	benign



rs1061738	NP_066990	P	L	PL	probably damaging
rs1061768	XP_371174	R	H	RH	benign
rs1061769	XP_371174	C	Y	CY	benign
rs1061780	NP_003771	P	S	PS	probably damaging
rs1061889	NP_149119	V	I	VI	benign
rs1061945	NP_005581	V	A	VA	benign
rs1061945	NP_005582	V	A	VA	benign
rs1061954	NP_005194	H	Q	HQ	benign
rs1061954	NP_542988	H	Q	HQ	benign
rs1061954	NP_542989	H	Q	HQ	benign
rs1061954	NP_542990	H	Q	HQ	benign
rs1061954	NP_542991	H	Q	HQ	benign
rs1061954	NP_542993	H	Q	HQ	benign
rs1061954	NP_542994	H	Q	HQ	benign
rs1061954	NP_542995	H	Q	HQ	benign
rs1061954	NP_542996	H	Q	HQ	benign
rs1061954	NP_542997	H	Q	HQ	benign
rs1061954	NP_542998	H	Q	HQ	benign
rs1061954	NP_543000	H	Q	HQ	benign
rs1061954	NP_543002	H	Q	HQ	benign
rs1061954	NP_543003	H	Q	HQ	benign
rs1061954	NP_543004	H	Q	HQ	benign
rs1061959	NP_000596	R	K	RK	benign
rs1062049	NP_624302	T	I	TI	benign
rs1062049	NP_001870	T	I	TI	possibly damaging
rs1062062	NP_008994	G	R	GR	benign
rs1062087	XP_375032	V	I	VI	benign
rs1062136	NP_000681	E	V	EV	benign
rs1062154	NP_055812	G	A	GA	benign
rs1062223	XP_496282	R	W	RW	possibly damaging
rs1062232	NP_075379	I	T	IT	possibly damaging
rs1062238	NP_054876	K	M	KM	benign
rs1062366	NP_000988	H	P	HP	probably damaging
rs1062373	NP_004784	V	I	VI	benign
rs1062398	NP_001604	H	P	HP	possibly damaging
rs1062400	NP_115754	V	M	VM	benign
rs1062400	NP_001951	V	M	VM	benign
rs1062401	NP_115754	V	E	VE	benign
rs1062401	NP_001951	V	E	VE	benign
rs1062403	XP_498335	T	P	TP	benign
rs1062406	NP_000983	E	K	EK	benign
rs1062412	NP_775885	D	N	DN	benign
rs1062412	NP_055102	N	D	ND	benign
rs1062413	NP_055102	M	V	MV	benign
rs1062413	NP_775885	V	M	VM	benign
rs1062418	XP_371107	E	G	EG	probably damaging

rs1062422	XP_371023	S	F	SF	benign
rs1062429	NP_002037	K	N	KN	benign
rs1062436	NP_002037	L	F	LF	benign
rs1062438	XP_371023	S	F	SF	benign
rs1062450	XP_371023	T	P	TP	probably damaging
rs1062458	NP_000161	H	Q	HQ	benign
rs1062463	NP_004167	A	P	AP	possibly damaging
rs1062465	NP_057279	D	E	DE	benign
rs1062468	NP_004159	V	I	VI	benign
rs1062478	NP_002005	R	H	RH	possibly damaging
rs1062487	NP_000893	R	P	RP	benign
rs1062487	NP_009218	R	P	RP	benign
rs1062487	NP_009219	R	P	RP	benign
rs1062487	NP_009220	R	P	RP	benign
rs1062488	NP_000893	R	T	RT	benign
rs1062488	NP_009218	R	T	RT	benign
rs1062488	NP_009219	R	T	RT	benign
rs1062488	NP_009220	R	T	RT	benign
rs1062489	NP_001494	G	A	GA	benign
rs1062489	NP_803436	G	A	GA	benign
rs1062490	NP_001494	P	S	PS	benign
rs1062490	NP_803436	P	S	PS	benign
rs1062493	NP_001494	T	S	TS	benign
rs1062496	NP_001494	I	V	IV	benign
rs1062498	NP_001494	V	I	VI	benign
rs1062501	NP_001494	H	R	HR	benign
rs1062502	NP_001494	D	E	DE	benign
rs1062503	NP_001494	V	M	VM	benign
rs1062505	NP_001494	V	M	VM	benign
rs1062507	NP_060004	L	I	LI	benign
rs1062511	NP_001494	K	T	KT	benign
rs1062512	NP_001494	K	N	KN	benign
rs1062551	NP_001957	G	V	GV	benign
rs1062552	NP_001957	R	I	RI	benign
rs1062553	NP_001957	I	T	IT	benign
rs1062555	NP_001957	G	A	GA	benign
rs1062557	NP_002082	R	S	RS	benign
rs1062563	NP_066546	A	V	AV	benign
rs1062563	NP_002164	A	V	AV	benign
rs1062570	NP_002162	N	H	NH	benign
rs1062571	NP_066546	A	T	AT	benign
rs1062573	NP_066546	V	M	VM	benign
rs1062573	NP_002162	V	M	VM	benign
rs1062574	NP_066546	S	F	SF	benign
rs1062575	NP_002162	I	T	IT	benign
rs1062575	NP_066546	T	I	TI	benign

rs1062591	NP_002439	G	R	GR	benign
rs1062592	NP_002439	E	A	EA	benign
rs1062597	NP_006563	V	L	VL	benign
rs1062608	NP_003401	A	T	AT	benign
rs1062609	NP_003373	A	T	AT	benign
rs1062633	NP_002438	R	G	RG	possibly damaging
rs1062656	NP_054764	P	R	PR	probably damaging
rs1062659	NP_110379	N	Y	NY	possibly damaging
rs1062660	NP_110379	N	I	NI	possibly damaging
rs1062695	NP_663791	F	L	FL	possibly damaging
rs1062695	NP_004702	F	L	FL	probably damaging
rs1062695	NP_663783	F	L	FL	probably damaging
rs1062703	NP_056723	P	L	PL	probably damaging
rs1062703	NP_056669	P	L	PL	probably damaging
rs1062703	NP_002375	P	L	PL	probably damaging
rs1062703	NP_056671	P	L	PL	probably damaging
rs1062713	NP_006685	K	R	KR	benign
rs1062714	NP_009215	R	G	RG	probably damaging
rs1062720	XP_370992	A	E	AE	possibly damaging
rs1062724	NP_998774	S	A	SA	benign
rs1062725	NP_998774	T	R	TR	possibly damaging
rs1062727	NP_683723	P	T	PT	benign
rs1062727	NP_055779	P	T	PT	benign
rs1062735	NP_945189	E	Q	EQ	benign
rs1062735	NP_004604	E	Q	EQ	benign
rs1062749	NP_003938	G	E	GE	possibly damaging
rs1062758	NP_038474	K	E	KE	benign
rs1062760	NP_038474	E	Q	EQ	benign
rs1062763	NP_038474	L	F	LF	benign
rs1062765	NP_038474	M	K	MK	benign
rs1062766	NP_038474	S	N	SN	benign
rs1062768	NP_038474	R	H	RH	benign
rs1062769	NP_038474	Y	F	YF	benign
rs1062777	NP_038474	G	E	GE	benign
rs1062778	NP_038474	A	T	AT	benign
rs1062780	NP_110384	Q	K	QK	benign
rs1062783	NP_038474	L	F	LF	benign
rs1062786	NP_038474	V	A	VA	benign
rs1062796	NP_005964	P	Q	PQ	benign
rs1062798	NP_036478	S	T	ST	benign
rs1062798	NP_057637	S	T	ST	benign
rs1062798	NP_714940	S	T	ST	benign
rs1062798	NP_714941	S	T	ST	benign
rs1062800	NP_036478	E	V	EV	probably damaging
rs1062800	NP_057637	E	V	EV	probably damaging
rs1062800	NP_714940	E	V	EV	probably damaging

rs1062800	NP_714941	E	V	EV	probably damaging
rs1062809	NP_037541	S	Y	SY	possibly damaging
rs1062811	NP_060294	R	T	RT	possibly damaging
rs1062822	NP_056986	S	R	SR	benign
rs1062823	NP_056986	E	G	EG	possibly damaging
rs1062832	NP_002244	A	T	AT	benign
rs1062846	NP_002902	P	S	PS	probably damaging
rs1062849	NP_003245	S	F	SF	possibly damaging
rs1062862	NP_003951	G	S	GS	benign
rs1062863	NP_003951	T	N	TN	benign
rs1062864	NP_003951	A	G	AG	benign
rs1062865	NP_003951	M	L	ML	benign
rs1062866	NP_003951	C	Y	CY	benign
rs1062868	NP_003951	A	D	AD	benign
rs1062870	NP_003951	S	A	SA	benign
rs1062871	NP_003951	K	Q	KQ	benign
rs1062872	NP_003951	V	A	VA	benign
rs1062873	NP_003951	S	R	SR	benign
rs1062900	NP_958815	E	K	EK	benign
rs1062904	NP_036475	S	A	SA	benign
rs1062904	NP_892022	S	A	SA	benign
rs1062913	NP_009160	F	V	FV	possibly damaging
rs1062914	NP_005876	P	L	PL	benign
rs1062923	NP_056536	I	T	IT	benign
rs1062926	XP_498423	H	Y	HY	probably damaging
rs1062928	XP_497714	D	E	DE	benign
rs1062937	NP_002245	E	D	ED	benign
rs1062941	NP_036538	H	Y	HY	possibly damaging
rs1062946	NP_438169	V	D	VD	possibly damaging
rs1062947	NP_438169	I	L	IL	benign
rs1062956	NP_877392	V	G	VG	possibly damaging
rs1062961	XP_495843	S	N	SN	benign
rs1062962	XP_495843	A	T	AT	benign
rs1062963	XP_495843	Q	R	QR	possibly damaging
rs1062964	NP_002344	E	D	ED	benign
rs1062978	NP_005303	G	D	GD	possibly damaging
rs1062978	NP_941372	G	D	GD	possibly damaging
rs1062981	NP_003751	V	I	VI	benign
rs1063001	NP_002775	T	I	TI	benign
rs1063070	NP_004770	F	L	FL	probably damaging
rs1063087	NP_065155	D	E	DE	benign
rs1063107	NP_006106	M	L	ML	benign
rs1063111	NP_036370	V	D	VD	possibly damaging
rs1063112	NP_036370	I	T	IT	possibly damaging
rs1063124	NP_001646	K	N	KN	benign
rs1063129	NP_000072	E	G	EG	benign

rs1063135	NP_002879	L	F	LF	benign
rs1063135	NP_996846	L	F	LF	benign
rs1063141	NP_857634	D	N	DN	benign
rs1063141	NP_857635	D	N	DN	benign
rs1063141	NP_036226	D	N	DN	possibly damaging
rs1063154	NP_004501	S	A	SA	benign
rs1063154	NP_536349	S	A	SA	benign
rs1063154	NP_004500	S	A	SA	benign
rs1063155	NP_060082	P	A	PA	possibly damaging
rs1063156	NP_003420	A	T	AT	benign
rs1063157	NP_000926	D	H	DH	possibly damaging
rs1063157	NP_891988	H	D	HD	possibly damaging
rs1063159	NP_006143	L	W	LW	possibly damaging
rs1063191	NP_066021	H	N	HN	benign
rs1063199	NP_001633	E	K	EK	benign
rs1063201	NP_001633	D	E	DE	benign
rs1063217	NP_055752	M	I	MI	benign
rs1063236	NP_004437	H	Q	HQ	benign
rs1063239	NP_000448	P	S	PS	benign
rs1063239	NP_849180	P	S	PS	benign
rs1063242	NP_005742	P	S	PS	benign
rs1063242	NP_671714	P	S	PS	benign
rs1063242	NP_671700	P	S	PS	benign
rs1063251	NP_006577	M	K	MK	probably damaging
rs1063252	NP_006577	M	I	MI	possibly damaging
rs1063257	NP_003742	D	E	DE	benign
rs1063257	NP_874371	D	E	DE	benign
rs1063261	NP_001449	K	R	KR	benign
rs1063262	NP_001449	P	R	PR	benign
rs1063273	NP_002762	T	S	TS	benign
rs1063276	NP_150232	F	Y	FY	benign
rs1063278	NP_150232	S	T	ST	benign
rs1063287	NP_872620	S	R	SR	possibly damaging
rs1063287	NP_056405	S	R	SR	possibly damaging
rs1063288	NP_872620	D	E	DE	benign
rs1063288	NP_056405	D	E	DE	benign
rs1063307	NP_003478	E	D	ED	benign
rs1063307	NP_631961	E	D	ED	benign
rs1063310	NP_055026	F	L	FL	benign
rs1063317	NP_006488	G	R	GR	possibly damaging
rs1063324	NP_003414	E	K	EK	benign
rs1063327	NP_003414	P	S	PS	benign
rs1063328	NP_036444	F	L	FL	benign
rs1063330	NP_002197	F	L	FL	benign
rs1063354	NP_004312	D	N	DN	possibly damaging
rs1063385	NP_003968	V	L	VL	benign

rs1063401	NP_000287	Q	E	QE	benign
rs1063403	NP_000287	M	V	MV	possibly damaging
rs1063405	NP_000287	R	H	RH	possibly damaging
rs1063409	NP_002572	F	L	FL	benign
rs1063412	NP_714969	P	S	PS	probably damaging
rs1063413	NP_006709	D	V	DV	benign
rs1063423	NP_003913	L	F	LF	benign
rs1063424	NP_003913	D	A	DA	benign
rs1063445	NP_938149	R	C	RC	probably damaging
rs1063445	NP_055425	R	C	RC	probably damaging
rs1063445	NP_938148	R	C	RC	probably damaging
rs1063447	NP_000680	F	Y	FY	probably damaging
rs1063455	NP_116116	T	S	TS	possibly damaging
rs1063456	NP_116116	D	H	DH	benign
rs1063457	NP_116116	S	A	SA	benign
rs1063458	NP_116116	E	D	ED	benign
rs1063459	NP_116116	E	Q	EQ	benign
rs1063468	NP_054778	E	K	EK	benign
rs1063469	NP_000468	K	E	KE	benign
rs1063478	NP_006111	V	I	VI	benign
rs1063479	NP_002655	K	R	KR	benign
rs1063485	NP_987091	H	N	HN	possibly damaging
rs1063493	NP_000036	E	Q	EQ	benign
rs1063499	NP_000578	S	T	ST	benign
rs1063502	NP_000365	G	S	GS	benign
rs1063525	NP_057452	T	P	TP	benign
rs1063531	NP_003031	E	V	EV	possibly damaging
rs1063535	NP_002408	P	L	PL	probably damaging
rs1063542	NP_059447	E	Q	EQ	benign
rs1063543	NP_001816	S	A	SA	benign
rs1063550	NP_006479	S	T	ST	benign
rs1063551	NP_006479	S	I	SI	benign
rs1063552	NP_006479	S	A	SA	benign
rs1063553	NP_006479	C	W	CW	probably damaging
rs1063554	NP_006479	N	S	NS	benign
rs1063560	NP_002175	L	V	LV	benign
rs1063560	NP_786943	L	V	LV	benign
rs1063562	NP_065790	A	V	AV	benign
rs1063563	NP_065790	A	D	AD	possibly damaging
rs1063564	NP_065790	G	S	GS	benign
rs1063565	NP_065790	G	D	GD	benign
rs1063566	NP_065790	N	K	NK	benign
rs1063567	NP_065790	H	R	HR	probably damaging
rs1063573	NP_004534	Q	E	QE	benign
rs1063582	NP_002309	M	L	ML	benign
rs1063607	NP_954657	T	P	TP	probably damaging

rs1063607	NP_000215	T	P	TP	probably damaging
rs1063616	NP_054902	S	R	SR	possibly damaging
rs1063623	NP_065943	S	Y	SY	possibly damaging
rs1063625	NP_067613	E	K	EK	benign
rs1063625	NP_000617	E	K	EK	benign
rs1063627	NP_996742	Q	K	QK	benign
rs1063627	NP_996743	Q	K	QK	benign
rs1063627	NP_996744	Q	K	QK	benign
rs1063627	NP_008928	Q	K	QK	benign
rs1063646	NP_054787	P	L	PL	probably damaging
rs1063651	NP_981956	D	Y	DY	probably damaging
rs1063669	NP_765975	G	S	GS	benign
rs1063669	NP_765977	G	S	GS	benign
rs1063669	NP_765978	G	S	GS	benign
rs1063669	NP_006153	G	S	GS	benign
rs1063731	NP_055738	S	G	SG	benign
rs1063739	NP_005300	H	N	HN	benign
rs1063757	NP_075389	M	R	MR	benign
rs1063757	NP_075390	R	M	RM	probably damaging
rs1063759	NP_075389	G	V	GV	benign
rs1063763	NP_075389	T	A	TA	possibly damaging
rs1063765	NP_075389	M	T	MT	benign
rs1063767	NP_075389	L	M	LM	benign
rs1063769	NP_075389	R	H	RH	benign
rs1063770	NP_075389	M	T	MT	benign
rs1063771	NP_075389	R	H	RH	possibly damaging
rs1063772	NP_075389	R	C	RC	benign
rs1063773	NP_075389	R	H	RH	benign
rs1063774	NP_075389	N	T	NT	benign
rs1063775	NP_075389	R	C	RC	benign
rs1063776	NP_075389	Q	E	QE	benign
rs1063777	NP_075389	R	W	RW	probably damaging
rs1063779	NP_075389	A	T	AT	benign
rs1063780	NP_075389	K	R	KR	benign
rs1063781	NP_075389	S	T	ST	benign
rs1063795	NP_075389	A	G	AG	benign
rs1063796	NP_075389	R	W	RW	probably damaging
rs1063798	NP_075389	V	F	VF	benign
rs1063798	NP_075390	F	V	FV	possibly damaging
rs1063809	NP_057705	A	T	AT	benign
rs1063810	NP_057705	A	G	AG	benign
rs1063831	NP_003288	L	Q	LQ	benign
rs1063834	NP_112570	I	T	IT	benign
rs1063852	NP_038471	N	S	NS	benign
rs1063856	NP_000543	T	A	TA	benign
rs1063897	NP_006485	R	P	RP	probably damaging

rs1063910	NP_057564	L	M	LM	benign
rs1063926	NP_002463	G	E	GE	probably damaging
rs1063927	NP_002463	Q	K	QK	benign
rs1063928	NP_002851	T	P	TP	benign
rs1063933	NP_002956	E	K	EK	benign
rs1063955	NP_148934	A	T	AT	benign
rs1063955	NP_003880	A	T	AT	benign
rs1063955	NP_071285	A	T	AT	benign
rs1063967	NP_004413	G	E	GE	possibly damaging
rs1063975	XP_371401	K	N	KN	benign
rs1063993	NP_511043	D	Y	DY	probably damaging
rs1063997	NP_005221	A	V	AV	benign
rs1063998	NP_005221	A	V	AV	benign
rs1063999	NP_005221	Q	E	QE	benign
rs1064000	NP_005221	T	R	TR	possibly damaging
rs1064004	NP_006006	Q	L	QL	benign
rs1064008	NP_006081	C	F	CF	probably damaging
rs1064010	NP_115746	P	S	PS	benign
rs1064074	NP_710142	E	D	ED	benign
rs1064110	NP_998827	Q	H	QH	benign
rs1064110	NP_003141	Q	H	QH	possibly damaging
rs1064110	NP_644805	Q	H	QH	possibly damaging
rs1064116	NP_003141	F	Y	FY	probably damaging
rs1064116	NP_998827	F	Y	FY	probably damaging
rs1064116	NP_644805	F	Y	FY	probably damaging
rs1064122	NP_003141	R	S	RS	probably damaging
rs1064122	NP_998827	R	S	RS	probably damaging
rs1064122	NP_644805	R	S	RS	probably damaging
rs1064177	NP_002204	T	A	TA	possibly damaging
rs1064178	NP_008863	G	D	GD	benign
rs1064178	NP_599031	G	D	GD	benign
rs1064178	NP_599032	G	D	GD	benign
rs1064195	NP_004143	I	F	IF	possibly damaging
rs1064199	NP_996318	V	F	VF	benign
rs1064204	NP_056374	P	T	PT	possibly damaging
rs1064213	NP_006217	V	I	VI	benign
rs1064218	NP_036423	C	R	CR	probably damaging
rs1064219	NP_036423	C	Y	CY	probably damaging
rs1064226	NP_003857	F	Y	FY	benign
rs1064227	NP_003857	T	P	TP	benign
rs1064236	NP_073594	I	T	IT	benign
rs1064238	NP_006448	L	S	LS	possibly damaging
rs1064251	NP_005572	G	E	GE	probably damaging
rs1064252	NP_002939	H	P	HP	probably damaging
rs1064274	NP_003657	R	Q	RQ	possibly damaging
rs1064275	NP_055472	A	T	AT	benign



rs1064293	NP_570923	G	R	GR	probably damaging
rs1064293	NP_570924	G	R	GR	probably damaging
rs1064293	NP_570925	G	R	GR	probably damaging
rs1064293	NP_002841	G	R	GR	probably damaging
rs1064295	NP_570924	A	V	AV	benign
rs1064295	NP_002841	A	V	AV	benign
rs1064298	NP_570923	S	F	SF	benign
rs1064298	NP_570925	S	F	SF	benign
rs1064298	NP_570924	S	F	SF	probably damaging
rs1064298	NP_002841	S	F	SF	probably damaging
rs1064301	NP_570923	N	K	NK	benign
rs1064301	NP_570925	N	K	NK	benign
rs1064301	NP_570924	N	K	NK	probably damaging
rs1064301	NP_002841	N	K	NK	probably damaging
rs1064307	NP_004136	Y	H	YH	benign
rs1064319	NP_848594	I	V	IV	benign
rs1064364	NP_003897	K	N	KN	benign
rs1064365	NP_976028	E	G	EG	benign
rs1064365	NP_005340	E	G	EG	benign
rs1064365	NP_056958	E	G	EG	benign
rs1064365	NP_976029	E	G	EG	benign
rs1064371	NP_976028	Y	D	YD	benign
rs1064371	NP_005340	Y	D	YD	benign
rs1064371	NP_056958	Y	D	YD	benign
rs1064371	NP_976029	Y	D	YD	benign
rs1064372	NP_976028	K	E	KE	benign
rs1064372	NP_005340	K	E	KE	benign
rs1064372	NP_056958	K	E	KE	benign
rs1064372	NP_976029	K	E	KE	benign
rs1064376	NP_976028	D	H	DH	benign
rs1064376	NP_005340	D	H	DH	benign
rs1064376	NP_056958	D	H	DH	benign
rs1064376	NP_976029	D	H	DH	benign
rs1064377	NP_079087	A	P	AP	benign
rs1064381	NP_976028	I	V	IV	benign
rs1064381	NP_005340	I	V	IV	benign
rs1064381	NP_056958	I	V	IV	benign
rs1064381	NP_976029	I	V	IV	benign
rs1064384	NP_976028	R	Q	RQ	benign
rs1064384	NP_005340	R	Q	RQ	benign
rs1064384	NP_056958	R	Q	RQ	benign
rs1064384	NP_976029	R	Q	RQ	benign
rs1064387	NP_976028	P	S	PS	benign
rs1064387	NP_005340	P	S	PS	benign
rs1064387	NP_056958	P	S	PS	benign
rs1064387	NP_976029	P	S	PS	benign

rs1064388	NP_004377	N	Y	NY	probably damaging
rs1064389	NP_004377	V	A	VA	benign
rs1064401	NP_976028	P	A	PA	benign
rs1064401	NP_005340	P	A	PA	benign
rs1064401	NP_056958	P	A	PA	benign
rs1064401	NP_976029	P	A	PA	benign
rs1064402	NP_976028	A	V	AV	benign
rs1064402	NP_005340	A	V	AV	benign
rs1064402	NP_056958	A	V	AV	benign
rs1064402	NP_976029	A	V	AV	benign
rs1064403	NP_976028	R	Q	RQ	benign
rs1064403	NP_005340	R	Q	RQ	benign
rs1064403	NP_056958	R	Q	RQ	benign
rs1064403	NP_976029	R	Q	RQ	benign
rs1064404	NP_976028	N	S	NS	benign
rs1064404	NP_005340	N	S	NS	benign
rs1064404	NP_056958	N	S	NS	benign
rs1064404	NP_976029	N	S	NS	benign
rs1064405	NP_976028	Q	H	QH	benign
rs1064405	NP_005340	Q	H	QH	benign
rs1064405	NP_056958	Q	H	QH	benign
rs1064405	NP_976029	Q	H	QH	benign
rs1064418	NP_064455	H	Q	HQ	probably damaging
rs1064419	NP_064455	A	V	AV	benign
rs1064420	XP_018487	M	V	MV	benign
rs1064421	NP_064455	N	S	NS	benign
rs1064422	NP_064455	P	L	PL	probably damaging
rs1064425	NP_064455	P	L	PL	benign
rs1064428	NP_005076	A	D	AD	benign
rs1064445	NP_004443	S	N	SN	benign
rs1064451	NP_006370	S	T	ST	benign
rs1064458	NP_000193	F	S	FS	possibly damaging
rs1064468	NP_004730	V	M	VM	benign
rs1064478	NP_008836	T	P	TP	benign
rs1064479	NP_008836	T	A	TA	benign
rs1064480	NP_008836	R	K	RK	benign
rs1064481	NP_008836	G	R	GR	benign
rs1064493	NP_036350	D	H	DH	benign
rs1064493	NP_004507	D	H	DH	benign
rs1064493	NP_703194	D	H	DH	benign
rs1064494	NP_036350	G	C	GC	benign
rs1064494	NP_004507	G	C	GC	probably damaging
rs1064494	NP_703194	G	C	GC	probably damaging
rs1064512	NP_003029	G	R	GR	benign
rs1064524	NP_002200	W	R	WR	possibly damaging
rs1064527	NP_757349	D	Y	DY	benign

rs1064527	NP_757350	D	Y	DY	benign
rs1064527	NP_757351	D	Y	DY	benign
rs1064533	NP_114438	C	W	CW	possibly damaging
rs1064542	NP_150644	D	N	DN	possibly damaging
rs1064542	NP_000964	D	N	DN	possibly damaging
rs1064545	NP_001247	K	E	KE	benign
rs1064562	NP_004850	L	H	LH	possibly damaging
rs1064567	NP_001717	K	T	KT	benign
rs1064567	NP_997072	K	T	KT	benign
rs1064568	NP_001717	Q	P	QP	benign
rs1064568	NP_997072	Q	P	QP	benign
rs1064570	NP_001717	Q	P	QP	benign
rs1064570	NP_997072	Q	P	QP	benign
rs1064573	NP_060126	C	S	CS	probably damaging
rs1064579	NP_005525	V	G	VG	benign
rs1064580	XP_496372	D	V	DV	benign
rs1064590	NP_683866	R	L	RL	benign
rs1064590	NP_683867	R	L	RL	benign
rs1064590	NP_683868	R	L	RL	benign
rs1064590	NP_683871	R	L	RL	benign
rs1064590	NP_003781	R	L	RL	benign
rs1064591	NP_002116	D	E	DE	benign
rs1064591	NP_002115	Q	H	QH	possibly damaging
rs1064595	NP_002115	Y	D	YD	probably damaging
rs1064595	NP_072049	Y	D	YD	probably damaging
rs1064595	NP_002116	Y	D	YD	probably damaging
rs1064601	NP_004855	R	G	RG	possibly damaging
rs1064608	NP_055157	P	A	PA	probably damaging
rs1064610	NP_036193	T	S	TS	benign
rs1064610	NP_036192	T	S	TS	benign
rs1064610	NP_005681	T	S	TS	benign
rs1064643	NP_000148	T	A	TA	benign
rs1064644	NP_000148	S	P	SP	benign
rs1064648	NP_000148	R	H	RH	benign
rs1064651	NP_000148	D	H	DH	possibly damaging
rs1064682	NP_808220	T	P	TP	possibly damaging
rs1064688	NP_005613	S	R	SR	possibly damaging
rs1064700	NP_037530	T	I	TI	possibly damaging
rs1064718	NP_683711	H	Y	HY	benign
rs1064718	NP_683710	H	Y	HY	benign
rs1064728	NP_000985	L	V	LV	benign
rs1064733	NP_001088	T	R	TR	benign
rs1064734	NP_001088	V	L	VL	benign
rs1064735	NP_001088	L	F	LF	benign
rs1064738	NP_001088	R	P	RP	possibly damaging
rs1064751	NP_005619	Q	L	QL	probably damaging

rs1064766	XP_208300	A	V	AV	benign
rs1064770	NP_077078	R	Q	RQ	benign
rs1064770	NP_003285	R	Q	RQ	benign
rs1064771	NP_077078	V	A	VA	benign
rs1064771	NP_003285	V	A	VA	benign
rs1064774	NP_077078	T	I	TI	benign
rs1064774	NP_003285	T	I	TI	benign
rs1064775	NP_077078	A	T	AT	benign
rs1064775	NP_003285	A	T	AT	benign
rs1064776	NP_077078	A	V	AV	benign
rs1064776	NP_003285	A	V	AV	benign
rs1064779	NP_077078	V	I	VI	benign
rs1064779	NP_003285	V	I	VI	benign
rs1064780	NP_077078	H	R	HR	benign
rs1064780	NP_003285	H	R	HR	benign
rs1064781	NP_077078	T	I	TI	possibly damaging
rs1064781	NP_003285	T	I	TI	possibly damaging
rs1064815	NP_000042	Q	L	QL	probably damaging
rs1064816	NP_001447	V	A	VA	benign
rs1064817	NP_001447	F	L	FL	probably damaging
rs1064823	NP_006000	S	T	ST	benign
rs1064836	NP_114106	T	I	TI	benign
rs1064845	NP_066918	S	N	SN	benign
rs1064880	NP_001276	Q	H	QH	benign
rs1064881	NP_001276	I	L	IL	benign
rs1064907	NP_001988	T	P	TP	possibly damaging
rs1064911	NP_005924	Q	E	QE	benign
rs1064913	NP_976032	H	Q	HQ	benign
rs1064914	NP_002776	I	T	IT	benign
rs1064914	NP_976032	I	T	IT	possibly damaging
rs1064934	NP_112536	S	N	SN	benign
rs1064936	NP_112536	V	A	VA	benign
rs1064937	NP_112536	T	R	TR	benign
rs1064961	NP_852469	G	V	GV	possibly damaging
rs1064961	NP_005641	G	V	GV	possibly damaging
rs1064967	NP_005956	V	M	VM	benign
rs1064967	NP_444254	V	M	VM	benign
rs1064967	NP_444255	V	M	VM	benign
rs1064967	NP_444256	V	M	VM	benign
rs1064967	NP_444257	V	M	VM	benign
rs1064967	NP_444258	V	M	VM	benign
rs1064967	NP_444253	V	M	VM	benign
rs1065022	NP_005956	L	H	LH	benign
rs1065022	NP_444254	L	H	LH	benign
rs1065022	NP_444256	L	H	LH	benign
rs1065022	NP_444260	L	H	LH	benign

rs1065022	NP_444259	L	H	LH	benign
rs1065022	NP_444253	L	H	LH	benign
rs1065028	NP_005444	V	L	VL	benign
rs1065038	NP_057336	N	Y	NY	possibly damaging
rs1065039	NP_057336	S	C	SC	benign
rs1065064	XP_496394	F	C	FC	probably damaging
rs1065065	NP_001988	K	T	KT	probably damaging
rs1065074	NP_689410	K	T	KT	benign
rs1065074	NP_689409	K	T	KT	benign
rs1065075	NP_005922	E	K	EK	benign
rs1065076	NP_005922	A	T	AT	benign
rs1065079	NP_005018	Q	H	QH	possibly damaging
rs1065115	NP_000415	R	S	RS	benign
rs1065126	NP_115534	L	S	LS	benign
rs1065126	NP_683881	L	S	LS	benign
rs1065126	NP_683738	L	S	LS	benign
rs1065135	NP_683881	Y	C	YC	probably damaging
rs1065136	NP_663620	P	T	PT	benign
rs1065136	NP_115534	Q	K	QK	benign
rs1065136	NP_683738	Q	K	QK	benign
rs1065136	NP_684281	Q	K	QK	benign
rs1065162	NP_060802	R	Q	RQ	benign
rs1065170	NP_115500	R	Q	RQ	benign
rs1065177	NP_060621	L	V	LV	benign
rs1065191	NP_001043	T	N	TN	possibly damaging
rs1065197	NP_006780	E	K	EK	benign
rs1065205	NP_008850	T	A	TA	benign
rs1065267	NP_060866	E	K	EK	possibly damaging
rs1065315	NP_115754	C	R	CR	probably damaging
rs1065315	NP_001951	C	R	CR	probably damaging
rs1065316	NP_005575	S	P	SP	possibly damaging
rs1065320	NP_115754	V	E	VE	benign
rs1065320	NP_001951	V	E	VE	benign
rs1065321	NP_115754	E	K	EK	benign
rs1065321	NP_001951	E	K	EK	benign
rs1065329	XP_085722	L	P	LP	benign
rs1065329	NP_006461	L	P	LP	possibly damaging
rs1065330	NP_006461	S	N	SN	benign
rs1065330	XP_085722	S	N	SN	benign
rs1065331	NP_037421	R	S	RS	benign
rs1065332	NP_005871	G	C	GC	benign
rs1065351	NP_954629	L	F	LF	benign
rs1065358	NP_001211	S	F	SF	probably damaging
rs1065358	NP_742075	S	F	SF	probably damaging
rs1065358	NP_742076	S	F	SF	probably damaging
rs1065358	NP_742077	S	F	SF	probably damaging

rs1065358	NP_742078	S	F	SF	probably damaging
rs1065358	NP_742079	S	F	SF	probably damaging
rs1065358	NP_742080	S	F	SF	probably damaging
rs1065358	NP_742081	S	F	SF	probably damaging
rs1065367	NP_005505	R	Q	RQ	possibly damaging
rs1065381	NP_078900	A	T	AT	benign
rs1065392	NP_742094	Q	R	QR	benign
rs1065392	NP_742093	Q	R	QR	benign
rs1065392	NP_473361	Q	R	QR	benign
rs1065393	NP_742094	I	V	IV	benign
rs1065393	NP_742093	I	V	IV	benign
rs1065393	NP_473361	I	V	IV	benign
rs1065395	NP_006566	P	T	PT	probably damaging
rs1065395	NP_942089	P	T	PT	probably damaging
rs1065411	NP_000552	K	N	KN	benign
rs1065422	NP_064445	S	Y	SY	benign
rs1065425	NP_000504	T	I	TI	possibly damaging
rs1065440	NP_064445	A	P	AP	benign
rs1065441	NP_000504	F	Y	FY	benign
rs1065442	NP_005205	M	T	MT	possibly damaging
rs1065445	NP_002636	L	M	LM	benign
rs1065446	NP_002636	V	D	VD	probably damaging
rs1065457	NP_112155	Q	R	QR	benign
rs1065480	NP_004694	S	Y	SY	possibly damaging
rs1065489	NP_000177	E	D	ED	benign
rs1065499	NP_031371	P	S	PS	benign
rs1065503	NP_004630	A	G	AG	benign
rs1065503	NP_542434	A	G	AG	benign
rs1065504	NP_002773	V	A	VA	benign
rs1065505	NP_002773	I	T	IT	benign
rs1065507	NP_002773	L	W	LW	possibly damaging
rs1065508	NP_002773	L	M	LM	benign
rs1065509	NP_002773	N	S	NS	benign
rs1065511	NP_002773	K	E	KE	benign
rs1065512	NP_002773	I	T	IT	benign
rs1065513	NP_002773	K	N	KN	benign
rs1065515	NP_002773	A	T	AT	benign
rs1065520	NP_002773	E	Q	EQ	benign
rs1065522	NP_002773	D	Y	DY	benign
rs1065524	XP_496314	K	N	KN	benign
rs1065524	NP_002773	N	K	NK	benign
rs1065530	NP_009098	M	T	MT	probably damaging
rs1065531	NP_009098	G	A	GA	benign
rs1065569	NP_000097	V	M	VM	benign
rs1065581	NP_075258	V	G	VG	probably damaging
rs1065581	NP_075263	V	G	VG	probably damaging

rs1065581	NP_075265	V	G	VG	probably damaging
rs1065581	NP_075419	V	G	VG	probably damaging
rs1065581	NP_075420	V	G	VG	probably damaging
rs1065581	NP_075264	V	G	VG	probably damaging
rs1065582	NP_075258	Q	K	QK	benign
rs1065582	NP_075263	Q	K	QK	benign
rs1065582	NP_075265	Q	K	QK	benign
rs1065582	NP_075419	Q	K	QK	benign
rs1065582	NP_075420	Q	K	QK	benign
rs1065582	NP_075264	Q	K	QK	benign
rs1065599	NP_009035	R	S	RS	probably damaging
rs1065611	NP_002678	Q	H	QH	benign
rs1065617	NP_002678	E	D	ED	benign
rs1065618	NP_002678	S	C	SC	benign
rs1065619	NP_002678	Q	H	QH	benign
rs1065622	NP_002678	Q	H	QH	benign
rs1065628	NP_006061	A	D	AD	possibly damaging
rs1065635	NP_036350	L	P	LP	possibly damaging
rs1065635	NP_004507	L	P	LP	possibly damaging
rs1065635	NP_703194	L	P	LP	possibly damaging
rs1065674	NP_060700	Q	R	QR	benign
rs1065676	NP_443109	K	T	KT	possibly damaging
rs1065676	NP_963836	K	T	KT	possibly damaging
rs1065683	NP_060085	S	T	ST	benign
rs1065699	NP_000986	A	V	AV	benign
rs1065699	NP_296374	A	V	AV	benign
rs1065701	NP_000986	Q	H	QH	benign
rs1065701	NP_296374	Q	H	QH	benign
rs1065718	NP_006000	I	V	IV	benign
rs1065720	NP_000984	D	G	DG	benign
rs1065733	NP_001006	K	N	KN	probably damaging
rs1065735	NP_001006	R	S	RS	probably damaging
rs1065736	NP_001006	N	D	ND	probably damaging
rs1065740	NP_002037	G	A	GA	possibly damaging
rs1065742	NP_150254	L	F	LF	possibly damaging
rs1065742	NP_000968	L	F	LF	possibly damaging
rs1065751	NP_116559	V	I	VI	benign
rs1065751	NP_002898	V	I	VI	benign
rs1065756	NP_000687	S	T	ST	benign
rs1065757	NP_000037	V	M	VM	benign
rs1065757	NP_942002	V	M	VM	benign
rs1065761	NP_003456	A	G	AG	possibly damaging
rs1065764	NP_001488	R	W	RW	probably damaging
rs1065775	NP_569707	A	V	AV	benign
rs1065775	NP_002831	A	V	AV	benign
rs1065782	NP_000587	V	I	VI	benign

rs1066924	XP_377071	P	L	PL	benign
rs1066924	XP_377072	L	P	LP	probably damaging
rs1071545	NP_004314	R	G	RG	benign
rs1071600	NP_003794	I	T	IT	possibly damaging
rs1071630	NP_002113	F	S	FS	benign
rs1071632	NP_116761	Q	H	QH	benign
rs1071632	NP_116757	Q	H	QH	benign
rs1071632	NP_116760	Q	H	QH	benign
rs1071632	NP_001382	Q	H	QH	benign
rs1071632	NP_001381	Q	H	QH	benign
rs1071632	NP_001383	Q	H	QH	possibly damaging
rs1071658	NP_115719	H	Q	HQ	benign
rs1071682	NP_057522	S	N	SN	benign
rs1071707	NP_008836	R	H	RH	benign
rs1071816	NP_005505	Y	S	YS	probably damaging
rs1071817	NP_005505	Q	K	QK	probably damaging
rs1071835	NP_998839	R	G	RG	benign
rs1073123	NP_000359	M	T	MT	benign
rs1075108	NP_006171	G	V	GV	probably damaging
rs1075356	XP_371230	S	L	SL	possibly damaging
rs1075935	NP_054781	Y	F	YF	benign
rs1076277	XP_376720	R	C	RC	probably damaging
rs1076455	XP_497792	Y	C	YC	benign
rs1076488	XP_032996	D	N	DN	benign
rs1076669	NP_001388	T	I	TI	benign
rs1076827	NP_006286	P	L	PL	probably damaging
rs1077126	XP_291806	T	A	TA	benign
rs1077841	NP_005954	R	C	RC	probably damaging
rs1078018	NP_057263	E	K	EK	benign
rs1078327	NP_071445	R	C	RC	probably damaging
rs1078456	XP_036988	D	N	DN	benign
rs1078461	XP_373043	L	V	LV	benign
rs1078543	NP_060354	S	C	SC	benign
rs1078761	NP_149974	I	V	IV	benign
rs1078846	NP_004794	S	L	SL	benign
rs1078890	NP_839943	H	Y	HY	probably damaging
rs1079109	NP_002146	L	F	LF	probably damaging
rs1079555	XP_047462	K	N	KN	benign
rs1079556	XP_047462	V	E	VE	benign
rs1079557	XP_047462	G	R	GR	possibly damaging
rs1079610	NP_150598	T	I	TI	benign
rs1095423	NP_056346	Y	C	YC	probably damaging
rs1104899	NP_689704	R	W	RW	benign
rs1105168	NP_001438	P	L	PL	probably damaging
rs1105222	NP_775960	A	G	AG	benign
rs1105223	NP_775960	T	M	TM	benign



rs1105273	NP_689996	A	V	AV	benign
rs1105353	NP_061937	T	N	TN	benign
rs1105879	NP_001063	R	S	RS	benign
rs1105929	XP_370944	T	I	TI	benign
rs1106042	NP_004755	K	R	KR	benign
rs1106194	NP_076987	A	T	AT	benign
rs1106639	NP_689996	V	I	VI	benign
rs1107413	NP_067026	V	L	VL	benign
rs1107947	NP_689642	V	E	VE	benign
rs1108134	XP_058721	E	K	EK	benign
rs1108758	NP_064716	D	G	DG	possibly damaging
rs1109552	XP_294357	I	V	IV	benign
rs1109643	NP_114105	T	M	TM	benign
rs1110061	NP_004950	G	A	GA	benign
rs1110337	NP_919247	E	K	EK	benign
rs1110337	NP_079402	E	K	EK	benign
rs1110400	NP_002377	T	I	TI	probably damaging
rs1110627	NP_982353	L	P	LP	benign
rs1110627	NP_058637	L	P	LP	possibly damaging
rs1110707	NP_060689	A	T	AT	benign
rs1110719	NP_036423	K	M	KM	benign
rs1110977	NP_057658	T	A	TA	possibly damaging
rs1110977	NP_000786	T	A	TA	possibly damaging
rs1111032	NP_071753	G	E	GE	probably damaging
rs1111067	XP_051081	G	R	GR	possibly damaging
rs1111168	NP_002269	E	D	ED	benign
rs1111169	NP_002269	E	Q	EQ	benign
rs1111335	NP_079406	R	W	RW	benign
rs1112438	NP_665698	R	Q	RQ	possibly damaging
rs1113265	NP_689843	D	E	DE	benign
rs1113557	NP_006621	T	R	TR	possibly damaging
rs1116540	NP_945351	Q	H	QH	possibly damaging
rs1122206	NP_056540	H	Q	HQ	probably damaging
rs1122326	NP_149971	Q	P	QP	benign
rs1122444	NP_997192	P	S	PS	probably damaging
rs1122955	NP_003424	G	D	GD	possibly damaging
rs1123617	NP_009094	V	I	VI	benign
rs1124164	NP_006602	S	P	SP	benign
rs1124257	XP_379908	Y	S	YS	probably damaging
rs1124649	NP_060197	M	V	MV	benign
rs1125488	NP_795372	Q	H	QH	benign
rs1126436	NP_066950	E	K	EK	benign
rs1126441	NP_000659	P	H	PH	probably damaging
rs1126441	NP_000660	P	H	PH	probably damaging
rs1126448	NP_067544	A	S	AS	benign
rs1126448	NP_000823	A	S	AS	benign

rs1126448	NP_015566	A	S	AS	benign
rs1126451	NP_803564	V	A	VA	benign
rs1126451	NP_001045	V	A	VA	benign
rs1126454	NP_001808	D	H	DH	possibly damaging
rs1126455	NP_001808	V	E	VE	possibly damaging
rs1126456	NP_001808	F	L	FL	benign
rs1126458	NP_001807	L	V	LV	benign
rs1126461	NP_000411	D	E	DE	benign
rs1126483	NP_001968	V	A	VA	benign
rs1126497	NP_002345	T	M	TM	benign
rs1126500	NP_599150	S	F	SF	benign
rs1126513	NP_002112	G	V	GV	benign
rs1126519	NP_945320	Q	R	QR	benign
rs1126519	NP_945321	Q	R	QR	possibly damaging
rs1126519	NP_001121	Q	R	QR	possibly damaging
rs1126525	NP_002094	T	I	TI	benign
rs1126534	NP_291032	A	V	AV	benign
rs1126554	NP_000410	A	G	AG	possibly damaging
rs1126555	NP_000410	S	C	SC	probably damaging
rs1126558	NP_004493	W	S	WS	probably damaging
rs1126559	NP_116027	V	M	VM	possibly damaging
rs1126588	NP_002741	I	V	IV	benign
rs1126588	NP_620637	I	V	IV	benign
rs1126589	NP_002741	I	M	IM	benign
rs1126589	NP_620637	I	M	IM	benign
rs1126590	NP_002741	L	V	LV	benign
rs1126590	NP_620637	L	V	LV	benign
rs1126593	NP_002741	R	T	RT	benign
rs1126593	NP_620637	R	T	RT	benign
rs1126608	NP_000893	R	T	RT	benign
rs1126608	NP_009218	R	T	RT	benign
rs1126608	NP_009219	R	T	RT	benign
rs1126608	NP_009220	R	T	RT	benign
rs1126617	NP_001494	V	I	VI	benign
rs1126617	NP_803436	V	I	VI	benign
rs1126642	NP_002046	D	N	DN	possibly damaging
rs1126664	NP_954698	R	K	RK	benign
rs1126664	NP_000451	R	K	RK	benign
rs1126665	NP_954698	G	E	GE	benign
rs1126665	NP_000451	G	E	GE	benign
rs1126667	NP_000688	R	Q	RQ	benign
rs1126671	NP_000661	I	V	IV	benign
rs1126673	NP_000661	V	I	VI	benign
rs1126690	NP_000143	I	V	IV	benign
rs1126777	NP_000599	C	R	CR	benign
rs1126777	NP_000598	R	C	RC	benign

rs1126780	NP_000598	K	R	KR	benign
rs1126780	NP_000599	R	K	RK	benign
rs1126783	NP_061949	S	C	SC	benign
rs1126785	NP_061949	D	H	DH	benign
rs1126788	NP_061949	L	M	LM	benign
rs1126792	NP_061949	F	L	FL	benign
rs1126793	NP_061949	L	M	LM	benign
rs1126799	NP_000538	V	A	VA	benign
rs1126799	NP_783650	V	A	VA	benign
rs1126799	NP_783651	V	A	VA	benign
rs1126799	NP_783652	V	A	VA	benign
rs1126799	NP_783653	V	A	VA	benign
rs1126829	NP_002941	V	F	VF	possibly damaging
rs1126906	NP_004432	T	R	TR	benign
rs1126922	NP_997644	P	H	PH	probably damaging
rs1126922	NP_006615	P	H	PH	probably damaging
rs1126930	NP_997626	T	S	TS	possibly damaging
rs1126932	NP_006223	G	A	GA	possibly damaging
rs1126933	NP_001784	Q	H	QH	benign
rs1126962	NP_001518	I	R	IR	benign
rs1126963	NP_001518	A	V	AV	benign
rs1127069	NP_001681	S	C	SC	possibly damaging
rs1127176	NP_060386	H	P	HP	probably damaging
rs1127278	NP_066284	G	R	GR	benign
rs1127281	NP_006378	C	S	CS	benign
rs1127354	NP_852470	P	T	PT	probably damaging
rs1127354	NP_258412	P	T	PT	probably damaging
rs1127386	NP_000818	S	G	SG	possibly damaging
rs1127410	NP_060203	F	S	FS	benign
rs1127412	NP_004478	D	G	DG	benign
rs1127560	NP_112576	E	K	EK	benign
rs1127564	NP_060875	G	S	GS	benign
rs1127586	XP_086937	I	T	IT	benign
rs1127588	NP_963849	K	M	KM	benign
rs1127588	NP_001441	K	M	KM	benign
rs1127618	NP_006821	W	L	WL	possibly damaging
rs1127675	NP_116024	S	T	ST	benign
rs1127676	NP_116024	G	D	GD	benign
rs1127691	NP_003656	D	V	DV	probably damaging
rs1127691	NP_775628	D	V	DV	probably damaging
rs1127717	NP_036322	D	A	DA	possibly damaging
rs1127732	NP_037506	S	L	SL	benign
rs1127742	NP_071739	A	D	AD	possibly damaging
rs1127787	NP_068593	G	R	GR	possibly damaging
rs1127826	NP_079456	S	L	SL	benign
rs1127846	NP_003091	V	F	VF	possibly damaging

rs1127888	NP_079517	A	T	AT	benign
rs1127953	NP_877393	R	S	RS	benign
rs1127953	NP_877419	R	S	RS	benign
rs1127953	NP_877420	R	S	RS	benign
rs1127953	NP_003321	R	S	RS	benign
rs1127954	NP_877393	D	G	DG	probably damaging
rs1127954	NP_877419	D	G	DG	probably damaging
rs1127954	NP_877420	D	G	DG	probably damaging
rs1127954	NP_003321	D	G	DG	probably damaging
rs1128014	NP_002902	G	D	GD	benign
rs1128039	NP_061092	V	L	VL	benign
rs1128165	NP_056480	K	M	KM	benign
rs1128293	NP_056984	S	I	SI	possibly damaging
rs1128316	NP_005549	A	P	AP	benign
rs1128340	NP_000716	V	E	VE	probably damaging
rs1128349	NP_115693	G	R	GR	possibly damaging
rs1128374	NP_060647	R	C	RC	probably damaging
rs1128399	NP_003767	L	P	LP	benign
rs1128428	NP_001994	S	R	SR	probably damaging
rs1128429	NP_001994	Y	C	YC	benign
rs1128430	NP_001994	K	M	KM	probably damaging
rs1128431	NP_078856	I	V	IV	benign
rs1128454	NP_055130	H	Q	HQ	probably damaging
rs1128501	NP_000918	G	V	GV	probably damaging
rs1128516	NP_001290	T	S	TS	possibly damaging
rs1128539	NP_003106	P	H	PH	probably damaging
rs1128562	NP_005654	P	S	PS	benign
rs1128606	NP_438169	A	V	AV	benign
rs1128607	NP_438169	L	F	LF	benign
rs1128608	NP_438169	E	Q	EQ	benign
rs1128613	NP_438169	L	S	LS	benign
rs1128615	NP_438169	A	E	AE	benign
rs1128625	NP_000982	R	G	RG	probably damaging
rs1128646	NP_005865	H	R	HR	benign
rs1128670	NP_054880	R	Q	RQ	benign
rs1128725	NP_116167	P	H	PH	probably damaging
rs1128864	NP_001170	S	L	SL	benign
rs1128867	NP_005267	A	P	AP	possibly damaging
rs1128881	NP_060517	G	E	GE	possibly damaging
rs1128967	XP_497943	F	S	FS	benign
rs1128992	NP_003791	P	Q	PQ	possibly damaging
rs1129037	NP_085911	I	T	IT	possibly damaging
rs1129055	NP_787058	A	T	AT	benign
rs1129087	NP_665859	D	A	DA	possibly damaging
rs1129129	NP_005547	G	E	GE	possibly damaging
rs1129160	NP_065705	D	N	DN	benign

rs1129167	NP_937883	D	E	DE	benign
rs1129167	NP_002947	D	E	DE	benign
rs1129182	NP_037444	E	K	EK	benign
rs1129183	NP_065080	D	N	DN	benign
rs1129250	NP_000924	F	L	FL	benign
rs1129250	NP_877949	F	L	FL	benign
rs1129273	NP_002638	F	S	FS	probably damaging
rs1129275	NP_002638	C	S	CS	probably damaging
rs1129279	NP_002638	L	V	LV	benign
rs1129414	NP_001663	Q	P	QP	benign
rs1129424	NP_003833	L	P	LP	benign
rs1129424	NP_671716	L	P	LP	benign
rs1129442	NP_006143	E	G	EG	possibly damaging
rs1129443	NP_006143	S	F	SF	possibly damaging
rs1129482	NP_597816	K	M	KM	possibly damaging
rs1129495	NP_057228	I	S	IS	possibly damaging
rs1129638	XP_498188	L	F	LF	probably damaging
rs1129639	XP_498188	L	F	LF	probably damaging
rs1129648	NP_000797	W	R	WR	probably damaging
rs1129656	NP_005199	I	F	IF	benign
rs1129658	NP_005199	P	L	PL	probably damaging
rs1129659	NP_690603	K	Q	KQ	benign
rs1129670	XP_498188	T	P	TP	possibly damaging
rs1129707	NP_001703	L	I	LI	benign
rs1129744	NP_064440	F	L	FL	benign
rs1129744	NP_002113	L	F	LF	benign
rs1129749	NP_064440	H	Y	HY	benign
rs1129749	NP_002113	Y	H	YH	benign
rs1129763	NP_005615	T	M	TM	benign
rs1129770	NP_705838	R	Q	RQ	benign
rs1129825	NP_005533	A	T	AT	benign
rs1129825	NP_938150	A	T	AT	benign
rs1129825	NP_938151	A	T	AT	benign
rs1129826	NP_005533	A	T	AT	benign
rs1129826	NP_938150	A	T	AT	benign
rs1129826	NP_938151	A	T	AT	benign
rs1129827	NP_938150	V	G	VG	benign
rs1129827	NP_005533	V	G	VG	probably damaging
rs1129844	NP_002977	A	T	AT	benign
rs1129923	NP_060293	G	S	GS	possibly damaging
rs1129980	NP_001439	E	D	ED	benign
rs1130042	NP_005917	Q	K	QK	benign
rs1130043	NP_005917	G	E	GE	possibly damaging
rs1130095	NP_000304	P	L	PL	possibly damaging
rs1130097	NP_000304	P	L	PL	benign
rs1130098	NP_000304	Y	H	YH	possibly damaging

rs1130100	NP_003068	N	D	ND	possibly damaging
rs1130101	NP_003068	N	S	NS	possibly damaging
rs1130102	NP_003068	H	Y	HY	probably damaging
rs1130104	NP_003068	R	W	RW	possibly damaging
rs1130107	NP_000304	D	Y	DY	probably damaging
rs1130111	NP_003068	I	T	IT	benign
rs1130183	NP_002232	R	C	RC	possibly damaging
rs1130184	NP_003160	T	I	TI	benign
rs1130248	NP_150596	T	P	TP	probably damaging
rs1130336	NP_002474	F	L	FL	probably damaging
rs1130426	NP_001976	T	M	TM	benign
rs1130440	NP_002696	A	P	AP	benign
rs1130466	NP_037421	I	N	IN	possibly damaging
rs1130480	NP_036446	K	M	KM	benign
rs1130480	NP_839942	K	M	KM	benign
rs1130481	NP_036446	N	D	ND	benign
rs1130481	NP_839942	N	D	ND	benign
rs1130482	NP_036446	H	R	HR	benign
rs1130482	NP_839942	H	R	HR	benign
rs1130486	NP_036446	G	S	GS	benign
rs1130486	NP_839942	G	S	GS	benign
rs1130487	NP_036446	P	R	PR	benign
rs1130487	NP_839942	P	R	PR	benign
rs1130490	NP_002799	E	V	EV	probably damaging
rs1130491	NP_036446	V	D	VD	benign
rs1130491	NP_839942	V	D	VD	benign
rs1130492	NP_036446	P	T	PT	benign
rs1130492	NP_839942	P	T	PT	benign
rs1130495	NP_570857	P	S	PS	benign
rs1130495	NP_570858	P	S	PS	benign
rs1130496	NP_570857	R	H	RH	benign
rs1130496	NP_570858	R	H	RH	benign
rs1130496	NP_002838	R	H	RH	benign
rs1130499	NP_570857	N	S	NS	benign
rs1130499	NP_570858	S	N	SN	benign
rs1130503	NP_036446	T	M	TM	benign
rs1130503	NP_839942	T	M	TM	benign
rs1130504	NP_036446	P	H	PH	probably damaging
rs1130504	NP_839942	P	H	PH	probably damaging
rs1130505	NP_036446	T	S	TS	benign
rs1130505	NP_839942	T	S	TS	benign
rs1130537	NP_001054	T	P	TP	probably damaging
rs1130563	NP_613258	L	I	LI	benign
rs1130563	NP_004884	L	I	LI	benign
rs1130604	NP_683758	P	S	PS	benign
rs1130604	NP_690039	P	S	PS	benign

rs1130604	NP_003090	P	S	PS	benign
rs1130643	NP_004675	T	A	TA	benign
rs1130686	NP_066271	A	T	AT	benign
rs1130686	NP_072170	A	T	AT	benign
rs1130686	NP_072171	A	T	AT	benign
rs1130688	NP_000292	R	K	RK	probably damaging
rs1130711	NP_000474	Q	K	QK	benign
rs1130717	NP_001625	R	C	RC	benign
rs1130718	NP_001625	K	E	KE	possibly damaging
rs1130774	NP_620693	A	D	AD	benign
rs1130774	NP_001884	A	D	AD	benign
rs1130793	NP_002769	C	S	CS	probably damaging
rs1130841	NP_000772	Y	C	YC	probably damaging
rs1130843	NP_000772	F	L	FL	probably damaging
rs1130856	NP_004381	H	Y	HY	benign
rs1130856	NP_683880	H	Y	HY	benign
rs1130866	NP_942140	T	I	TI	benign
rs1130881	NP_000908	S	R	SR	benign
rs1130885	NP_000908	K	E	KE	benign
rs1130886	NP_000908	K	N	KN	benign
rs1130887	NP_000908	T	S	TS	benign
rs1130890	NP_000908	A	V	AV	benign
rs1130891	NP_000908	Q	H	QH	benign
rs1130892	NP_000908	V	I	VI	benign
rs1130894	NP_006800	I	F	IF	benign
rs1130896	NP_006800	S	F	SF	possibly damaging
rs1130904	NP_055571	S	A	SA	benign
rs1130977	NP_003665	F	I	FI	probably damaging
rs1130982	NP_006750	I	M	IM	benign
rs1131026	NP_003063	E	K	EK	benign
rs1131040	NP_002100	D	N	DN	benign
rs1131041	NP_002100	N	K	NK	benign
rs1131042	NP_002100	N	H	NH	benign
rs1131045	NP_002100	Q	H	QH	probably damaging
rs1131054	NP_853628	L	Q	LQ	possibly damaging
rs1131121	NP_036216	A	G	AG	benign
rs1131132	NP_003730	M	I	MI	probably damaging
rs1131147	NP_000365	L	P	LP	benign
rs1131156	NP_005505	S	W	SW	benign
rs1131159	NP_005505	A	G	AG	benign
rs1131167	NP_003074	L	V	LV	benign
rs1131170	NP_005505	S	A	SA	benign
rs1131199	NP_005935	C	S	CS	probably damaging
rs1131201	NP_005505	Q	R	QR	benign
rs1131202	NP_005505	I	N	IN	benign
rs1131204	NP_005505	A	T	AT	benign

rs1131212	NP_005505	Q	H	QH	benign
rs1131215	NP_005505	D	Y	DY	benign
rs1131217	NP_005505	S	G	SG	benign
rs1131223	NP_005505	N	T	NT	benign
rs1131230	NP_066299	L	M	LM	benign
rs1131230	NP_524148	L	M	LM	benign
rs1131230	NP_524147	L	M	LM	benign
rs1131293	NP_055963	F	C	FC	benign
rs1131307	NP_036461	A	V	AV	benign
rs1131356	NP_001448	N	D	ND	possibly damaging
rs1131387	NP_004571	E	Q	EQ	benign
rs1131387	NP_899057	E	Q	EQ	benign
rs1131387	NP_899058	E	Q	EQ	benign
rs1131387	NP_899059	E	Q	EQ	benign
rs1131388	NP_004571	E	A	EA	probably damaging
rs1131388	NP_899057	E	A	EA	probably damaging
rs1131388	NP_899058	E	A	EA	probably damaging
rs1131388	NP_899059	E	A	EA	probably damaging
rs1131503	NP_003582	N	S	NS	benign
rs1131525	NP_066299	M	T	MT	probably damaging
rs1131525	NP_524148	M	T	MT	probably damaging
rs1131525	NP_524147	M	T	MT	probably damaging
rs1131559	NP_001763	N	K	NK	benign
rs1131586	NP_006371	L	V	LV	benign
rs1131587	NP_006371	P	R	PR	probably damaging
rs1131590	NP_570824	E	D	ED	benign
rs1131593	NP_570824	I	V	IV	benign
rs1131604	NP_570824	V	L	VL	benign
rs1131619	NP_115719	A	D	AD	benign
rs1131648	NP_000710	V	I	VI	benign
rs1131649	NP_000710	N	S	NS	possibly damaging
rs1131653	NP_000710	V	I	VI	benign
rs1131657	NP_000710	R	M	RM	benign
rs1131658	NP_000710	D	E	DE	benign
rs1131659	NP_000710	H	R	HR	probably damaging
rs1131716	NP_699168	P	L	PL	benign
rs1131716	NP_878274	P	L	PL	probably damaging
rs1131769	NP_938023	H	R	HR	benign
rs1131839	NP_602296	N	K	NK	benign
rs1131839	NP_602295	N	K	NK	benign
rs1131851	NP_000199	K	Q	KQ	benign
rs1131857	NP_000088	N	H	NH	benign
rs1131874	NP_945328	S	R	SR	benign
rs1131874	NP_945353	S	R	SR	benign
rs1131874	NP_004697	S	R	SR	benign
rs1131877	NP_003291	M	T	MT	benign



rs1131877	NP_663777	M	T	MT	benign
rs1131877	NP_663778	M	T	MT	benign
rs1131973	NP_775740	S	T	ST	benign
rs1131992	NP_006634	V	M	VM	benign
rs1132007	NP_000059	G	A	GA	benign
rs1132078	NP_892117	A	V	AV	benign
rs1132078	NP_006405	V	A	VA	benign
rs1132111	NP_005428	P	R	PR	probably damaging
rs1132138	NP_078963	D	V	DV	possibly damaging
rs1132158	NP_788274	V	I	VI	benign
rs1132161	NP_003877	T	I	TI	benign
rs1132161	NP_647450	T	I	TI	benign
rs1132175	NP_061910	H	D	HD	probably damaging
rs1132180	NP_061910	L	M	LM	benign
rs1132181	NP_061910	E	K	EK	benign
rs1132182	NP_061910	R	G	RG	benign
rs1132200	NP_060736	A	T	AT	benign
rs1132201	NP_078965	K	R	KR	benign
rs1132210	XP_372224	V	F	VF	benign
rs1132258	NP_000412	W	R	WR	probably damaging
rs1132259	NP_000412	H	R	HR	benign
rs1132264	NP_000412	H	R	HR	probably damaging
rs1132265	NP_000412	D	H	DH	benign
rs1132268	NP_000412	Q	E	QE	benign
rs1132274	NP_004578	R	L	RL	possibly damaging
rs1132308	NP_473363	S	C	SC	benign
rs1132308	NP_004278	S	C	SC	possibly damaging
rs1132337	NP_005640	F	Y	FY	benign
rs1132528	NP_073739	L	Q	LQ	possibly damaging
rs1132543	NP_003249	M	V	MV	benign
rs1132588	NP_006855	V	M	VM	benign
rs1132591	NP_067073	F	V	FV	benign
rs1132591	NP_870994	F	V	FV	benign
rs1132591	NP_871714	F	V	FV	benign
rs1132591	NP_871715	F	V	FV	benign
rs1132593	NP_067073	F	S	FS	possibly damaging
rs1132593	NP_870994	F	S	FS	possibly damaging
rs1132593	NP_871714	F	S	FS	possibly damaging
rs1132593	NP_871715	F	S	FS	possibly damaging
rs1132595	NP_006855	N	S	NS	benign
rs1132597	NP_006855	N	D	ND	benign
rs1132599	NP_006855	M	I	MI	benign
rs1132600	NP_006855	A	T	AT	benign
rs1132604	NP_006855	H	Y	HY	benign
rs1132604	NP_036408	Y	H	YH	benign
rs1132605	NP_006855	F	L	FL	possibly damaging

rs1132606	NP_006855	F	Y	FY	benign
rs1132608	NP_006855	M	V	MV	benign
rs1132610	NP_006855	R	G	RG	possibly damaging
rs1132688	NP_064576	I	N	IN	probably damaging
rs1132822	NP_077306	S	F	SF	benign
rs1132824	NP_065806	S	P	SP	possibly damaging
rs1132855	NP_065184	T	A	TA	benign
rs1132889	NP_060330	P	A	PA	benign
rs1132899	NP_001637	L	P	LP	benign
rs1132949	NP_775109	N	D	ND	possibly damaging
rs1132949	NP_000415	N	D	ND	possibly damaging
rs1132950	NP_775109	N	S	NS	benign
rs1132950	NP_000415	N	S	NS	benign
rs1132951	NP_775109	L	F	LF	possibly damaging
rs1132954	NP_775109	I	S	IS	benign
rs1132956	NP_775109	S	N	SN	benign
rs1132973	NP_005889	A	D	AD	benign
rs1132973	NP_976240	A	D	AD	benign
rs1133005	NP_002262	L	I	LI	benign
rs1133028	NP_060788	M	V	MV	benign
rs1133090	NP_071750	H	D	HD	probably damaging
rs1133141	NP_071904	P	T	PT	possibly damaging
rs1133243	NP_001544	K	R	KR	benign
rs1133248	NP_003755	L	H	LH	possibly damaging
rs1133297	NP_006381	A	P	AP	probably damaging
rs1133327	NP_060825	I	V	IV	benign
rs1133369	NP_898881	K	R	KR	benign
rs1133378	NP_940936	P	S	PS	possibly damaging
rs1133400	NP_005530	K	R	KR	benign
rs1133417	NP_940866	E	D	ED	benign
rs1133618	XP_376903	A	T	AT	benign
rs1133639	NP_742095	V	G	VG	possibly damaging
rs1133639	NP_742094	V	G	VG	possibly damaging
rs1133639	NP_742093	V	G	VG	possibly damaging
rs1133639	NP_473361	V	G	VG	possibly damaging
rs1133763	NP_005614	K	Q	KQ	benign
rs1133818	NP_115509	S	R	SR	possibly damaging
rs1133833	NP_878904	R	K	RK	benign
rs1133833	NP_065693	R	K	RK	benign
rs1133891	NP_612476	M	V	MV	benign
rs1133893	NP_057580	T	A	TA	benign
rs1133894	NP_000146	L	Q	LQ	probably damaging
rs1133950	NP_115710	K	Q	KQ	benign
rs1133966	NP_060553	K	R	KR	benign
rs1133973	NP_006466	V	D	VD	benign
rs1134389	NP_005806	I	V	IV	benign

rs1134391	NP_005806	R	S	RS	benign
rs1134469	NP_112205	A	T	AT	benign
rs1134534	NP_068759	R	Q	RQ	possibly damaging
rs1134555	NP_659417	M	I	MI	benign
rs1134586	NP_073611	D	N	DN	benign
rs1134647	NP_064582	E	G	EG	possibly damaging
rs1134758	NP_004059	V	L	VL	benign
rs1134796	NP_066955	Y	F	YF	benign
rs1134921	NP_005246	D	N	DN	benign
rs1135005	NP_005800	Y	H	YH	possibly damaging
rs1135045	NP_055859	A	P	AP	benign
rs1135053	NP_006368	L	F	LF	probably damaging
rs1135054	NP_001842	I	L	IL	benign
rs1135054	NP_511040	I	L	IL	benign
rs1135055	NP_001842	Q	H	QH	benign
rs1135055	NP_511040	Q	H	QH	benign
rs1135056	NP_001842	Q	R	QR	benign
rs1135056	NP_511040	Q	R	QR	benign
rs1135060	NP_002467	E	D	ED	benign
rs1135062	NP_005572	T	A	TA	benign
rs1135065	NP_005572	Q	H	QH	possibly damaging
rs1135093	XP_371776	M	V	MV	benign
rs1135118	NP_006155	A	T	AT	benign
rs1135343	NP_005618	D	E	DE	possibly damaging
rs1135367	NP_005438	F	L	FL	benign
rs1135434	NP_001627	V	L	VL	benign
rs1135515	NP_008908	H	L	HL	probably damaging
rs1135542	NP_004424	Q	K	QK	benign
rs1135544	NP_002904	G	S	GS	possibly damaging
rs1135677	NP_071760	R	K	RK	benign
rs1135711	NP_066979	Y	C	YC	benign
rs1135728	NP_963965	W	C	WC	probably damaging
rs1135728	NP_963964	W	C	WC	probably damaging
rs1135728	NP_998813	W	C	WC	probably damaging
rs1135792	NP_112536	H	Y	HY	possibly damaging
rs1135793	NP_112536	N	Y	NY	benign
rs1135794	NP_112536	N	T	NT	possibly damaging
rs1135795	NP_112536	R	H	RH	benign
rs1135796	NP_002775	T	I	TI	benign
rs1135802	NP_057687	E	K	EK	benign
rs1135866	NP_004941	S	L	SL	possibly damaging
rs1135867	NP_004941	G	V	GV	possibly damaging
rs1135874	NP_006871	N	K	NK	benign
rs1135874	NP_002383	N	K	NK	possibly damaging
rs1135874	NP_006870	N	K	NK	possibly damaging
rs1135874	NP_006872	N	K	NK	possibly damaging

rs1135880	NP_002772	W	C	WC	probably damaging
rs1135889	XP_371079	G	V	GV	possibly damaging
rs1135901	NP_002772	T	S	TS	possibly damaging
rs1135925	NP_620706	V	A	VA	benign
rs1135925	NP_003066	V	A	VA	benign
rs1135999	NP_775745	S	P	SP	probably damaging
rs1136001	NP_775745	H	N	HN	benign
rs1136019	NP_037366	V	M	VM	benign
rs1136024	NP_112536	T	P	TP	benign
rs1136026	NP_112536	R	G	RG	benign
rs1136027	NP_112536	I	L	IL	benign
rs1136029	NP_003316	I	N	IN	possibly damaging
rs1136037	NP_006175	Q	K	QK	possibly damaging
rs1136039	NP_006175	Q	L	QL	probably damaging
rs1136040	NP_006175	Q	L	QL	probably damaging
rs1136074	NP_002775	L	Q	LQ	benign
rs1136102	NP_056449	A	S	AS	benign
rs1136103	NP_000347	P	R	PR	probably damaging
rs1136105	NP_000347	K	E	KE	benign
rs1136124	XP_498469	I	T	IT	possibly damaging
rs1136139	NP_008836	H	Y	HY	benign
rs1136198	NP_002775	M	V	MV	benign
rs1136202	NP_066296	K	E	KE	benign
rs1136203	NP_060519	S	R	SR	benign
rs1136287	NP_002606	T	M	TM	possibly damaging
rs1136410	NP_001609	V	A	VA	benign
rs1136545	NP_002927	L	F	LF	benign
rs1136580	NP_998839	E	K	EK	benign
rs1136612	NP_002256	Q	H	QH	benign
rs1136691	NP_002107	G	R	GR	benign
rs1136703	NP_803564	I	T	IT	benign
rs1136703	NP_001045	I	T	IT	benign
rs1136789	NP_005735	K	Q	KQ	benign
rs1136881	NP_072049	R	S	RS	benign
rs1137078	NP_002107	T	A	TA	benign
rs1137086	NP_620140	K	E	KE	benign
rs1137100	NP_002294	K	R	KR	benign
rs1137101	NP_002294	Q	R	QR	benign
rs1137515	NP_056323	L	F	LF	benign
rs1137582	NP_004026	I	M	IM	benign
rs1137582	NP_009223	I	M	IM	benign
rs1137640	NP_055105	D	G	DG	possibly damaging
rs1137649	NP_775924	F	Y	FY	benign
rs1137659	NP_733759	L	S	LS	possibly damaging
rs1137784	NP_036387	P	S	PS	benign
rs1137806	NP_940890	P	L	PL	probably damaging

rs1138056	NP_078831	L	V	LV	benign
rs1138056	NP_036294	L	V	LV	benign
rs1138294	NP_004663	T	I	TI	benign
rs1138335	NP_068713	E	K	EK	benign
rs1138335	NP_001690	E	K	EK	benign
rs1138336	NP_068713	D	G	DG	possibly damaging
rs1138336	NP_001690	D	G	DG	possibly damaging
rs1138357	NP_004040	C	Y	CY	benign
rs1138358	NP_004040	N	K	NK	benign
rs1138389	NP_003601	P	H	PH	probably damaging
rs1138409	NP_000166	A	S	AS	benign
rs1138437	NP_031359	R	S	RS	possibly damaging
rs1138439	NP_808211	A	V	AV	benign
rs1138439	NP_803545	A	V	AV	benign
rs1138454	NP_055559	I	V	IV	benign
rs1138569	NP_001344	T	A	TA	probably damaging
rs1138570	NP_001344	T	I	TI	probably damaging
rs1138575	NP_001344	R	H	RH	benign
rs1138693	NP_065109	L	P	LP	benign
rs1138697	NP_000753	E	D	ED	benign
rs1138698	NP_000753	E	G	EG	benign
rs1138736	NP_006660	G	R	GR	benign
rs1138737	NP_006660	L	V	LV	benign
rs1138800	NP_056183	Q	H	QH	probably damaging
rs1139017	NP_005194	P	L	PL	benign
rs1139017	NP_542988	P	L	PL	benign
rs1139017	NP_542989	P	L	PL	benign
rs1139017	NP_542991	P	L	PL	benign
rs1139017	NP_542992	P	L	PL	benign
rs1139017	NP_542993	P	L	PL	benign
rs1139017	NP_542994	P	L	PL	benign
rs1139017	NP_542995	P	L	PL	benign
rs1139017	NP_542996	P	L	PL	benign
rs1139017	NP_542998	P	L	PL	benign
rs1139017	NP_542999	P	L	PL	benign
rs1139017	NP_543000	P	L	PL	benign
rs1139017	NP_543001	P	L	PL	benign
rs1139017	NP_543002	P	L	PL	benign
rs1139017	NP_543003	P	L	PL	benign
rs1139017	NP_543004	P	L	PL	benign
rs1139017	NP_542990	P	L	PL	probably damaging
rs1139017	NP_542997	P	L	PL	probably damaging
rs1139017	NP_543005	P	L	PL	probably damaging
rs1139018	NP_005194	P	L	PL	benign
rs1139018	NP_542988	P	L	PL	benign
rs1139018	NP_542989	P	L	PL	benign

rs1139018	NP_542991	P	L	PL	benign
rs1139018	NP_542992	P	L	PL	benign
rs1139018	NP_542993	P	L	PL	benign
rs1139018	NP_542994	P	L	PL	benign
rs1139018	NP_542995	P	L	PL	benign
rs1139018	NP_542996	P	L	PL	benign
rs1139018	NP_542998	P	L	PL	benign
rs1139018	NP_542999	P	L	PL	benign
rs1139018	NP_543000	P	L	PL	benign
rs1139018	NP_543001	P	L	PL	benign
rs1139018	NP_543002	P	L	PL	benign
rs1139018	NP_543003	P	L	PL	benign
rs1139018	NP_543004	P	L	PL	benign
rs1139018	NP_542990	P	L	PL	probably damaging
rs1139018	NP_542997	P	L	PL	probably damaging
rs1139018	NP_543005	P	L	PL	probably damaging
rs1139025	NP_542993	P	L	PL	benign
rs1139025	NP_542998	P	L	PL	benign
rs1139025	NP_005194	P	L	PL	possibly damaging
rs1139025	NP_542988	P	L	PL	possibly damaging
rs1139025	NP_542989	P	L	PL	possibly damaging
rs1139025	NP_542990	P	L	PL	possibly damaging
rs1139025	NP_542994	P	L	PL	possibly damaging
rs1139025	NP_542995	P	L	PL	possibly damaging
rs1139025	NP_542997	P	L	PL	possibly damaging
rs1139025	NP_543000	P	L	PL	possibly damaging
rs1139025	NP_543002	P	L	PL	possibly damaging
rs1139025	NP_543003	P	L	PL	possibly damaging
rs1139025	NP_543004	P	L	PL	possibly damaging
rs1139025	NP_542991	P	L	PL	probably damaging
rs1139025	NP_542996	P	L	PL	probably damaging
rs1139030	NP_005194	E	Q	EQ	benign
rs1139030	NP_542988	E	Q	EQ	benign
rs1139030	NP_542989	E	Q	EQ	benign
rs1139030	NP_542990	E	Q	EQ	benign
rs1139030	NP_542991	E	Q	EQ	benign
rs1139030	NP_542993	E	Q	EQ	benign
rs1139030	NP_542994	E	Q	EQ	benign
rs1139030	NP_542995	E	Q	EQ	benign
rs1139030	NP_542996	E	Q	EQ	benign
rs1139030	NP_542997	E	Q	EQ	benign
rs1139030	NP_542998	E	Q	EQ	benign
rs1139030	NP_543000	E	Q	EQ	benign
rs1139030	NP_543002	E	Q	EQ	benign
rs1139030	NP_543003	E	Q	EQ	benign
rs1139030	NP_543004	E	Q	EQ	benign

rs1139108	NP_113679	D	N	DN	benign
rs1139210	NP_079133	F	L	FL	benign
rs1139240	NP_002043	E	Q	EQ	benign
rs1139241	NP_002043	V	L	VL	possibly damaging
rs1139244	NP_002043	A	P	AP	benign
rs1139315	NP_872415	K	N	KN	benign
rs1139447	NP_000166	G	V	GV	probably damaging
rs1139495	NP_000187	V	L	VL	benign
rs1139545	NP_055693	N	K	NK	possibly damaging
rs1139731	NP_060725	H	P	HP	probably damaging
rs1139768	NP_116228	H	D	HD	probably damaging
rs1139774	NP_002244	R	G	RG	possibly damaging
rs1139775	NP_002244	K	N	KN	benign
rs1139776	NP_002244	V	E	VE	possibly damaging
rs1139777	NP_002244	S	T	ST	benign
rs1139793	NP_665690	I	K	IK	benign
rs1139793	NP_665691	I	K	IK	benign
rs1139793	NP_006431	I	K	IK	benign
rs1139864	NP_002483	K	R	KR	benign
rs1139953	NP_036419	S	C	SC	possibly damaging
rs1139954	NP_036419	S	I	SI	possibly damaging
rs1139978	XP_378181	T	P	TP	benign
rs1139980	NP_004770	L	P	LP	benign
rs1139998	NP_443111	L	P	LP	benign
rs1139998	NP_954658	L	P	LP	benign
rs1139998	NP_954660	L	P	LP	possibly damaging
rs1140009	NP_787114	M	V	MV	benign
rs1140011	NP_787114	A	T	AT	benign
rs1140038	NP_110446	D	Y	DY	probably damaging
rs1140053	NP_976037	S	R	SR	benign
rs1140065	NP_004444	H	R	HR	benign
rs1140159	NP_064530	M	I	MI	possibly damaging
rs1140219	NP_006875	D	E	DE	benign
rs1140239	NP_003577	G	S	GS	benign
rs1140285	NP_003478	E	V	EV	possibly damaging
rs1140285	NP_631961	E	V	EV	possibly damaging
rs1140385	NP_003322	P	R	PR	probably damaging
rs1140386	NP_003322	Q	H	QH	possibly damaging
rs1140409	NP_004387	S	A	SA	benign
rs1140421	NP_003913	D	G	DG	possibly damaging
rs1140449	NP_000468	D	Y	DY	probably damaging
rs1140461	NP_000908	V	L	VL	benign
rs1140462	NP_000908	H	Q	HQ	possibly damaging
rs1140470	NP_001370	A	G	AG	benign
rs1140541	NP_620710	S	T	ST	benign
rs1140541	NP_003067	S	T	ST	benign

rs1140569	NP_003290	E	K	EK	benign
rs1140570	NP_003290	E	K	EK	benign
rs1140605	NP_004782	A	S	AS	benign
rs1140606	NP_004095	S	F	SF	possibly damaging
rs1140612	NP_004095	H	D	HD	probably damaging
rs1140613	NP_004095	S	A	SA	benign
rs1140614	NP_004095	A	V	AV	benign
rs1140617	NP_004095	V	A	VA	benign
rs1140618	NP_004095	E	Q	EQ	benign
rs1140623	NP_004095	V	I	VI	benign
rs1140679	NP_055265	D	V	DV	probably damaging
rs1140718	NP_002602	S	T	ST	possibly damaging
rs1140780	NP_004450	K	T	KT	benign
rs1140780	NP_872579	K	T	KT	benign
rs1140781	NP_872579	N	T	NT	benign
rs1140781	NP_004450	N	T	NT	possibly damaging
rs1140871	NP_064576	E	D	ED	benign
rs1140901	NP_057182	A	G	AG	possibly damaging
rs1140952	NP_005921	I	V	IV	benign
rs1140952	NP_976230	I	V	IV	benign
rs1140952	NP_976231	I	V	IV	benign
rs1140952	NP_976229	I	V	IV	benign
rs1140952	NP_976232	I	V	IV	benign
rs1140968	NP_148934	K	N	KN	benign
rs1140968	NP_003880	K	N	KN	benign
rs1140968	NP_071285	K	N	KN	benign
rs1140970	NP_001060	A	T	AT	benign
rs1140993	NP_036477	R	S	RS	benign
rs1141014	NP_006599	W	L	WL	possibly damaging
rs1141024	NP_004860	K	R	KR	possibly damaging
rs1141038	NP_003969	Q	H	QH	possibly damaging
rs1141039	NP_003969	E	K	EK	benign
rs1141041	NP_003969	Q	H	QH	possibly damaging
rs1141042	NP_003969	R	L	RL	possibly damaging
rs1141043	NP_003969	A	S	AS	benign
rs1141044	NP_003969	E	D	ED	benign
rs1141045	NP_003969	Q	H	QH	possibly damaging
rs1141061	NP_005328	L	V	LV	benign
rs1141138	NP_003002	Q	P	QP	possibly damaging
rs1141223	NP_005098	V	G	VG	probably damaging
rs1141245	NP_005591	L	R	LR	benign
rs1141273	NP_003679	G	D	GD	benign
rs1141282	NP_066955	S	F	SF	probably damaging
rs1141285	NP_005246	E	A	EA	benign
rs1141356	NP_853549	Q	L	QL	probably damaging
rs1141356	NP_877572	Q	L	QL	probably damaging



rs1141356	NP_898829	Q	L	QL	probably damaging
rs1141356	NP_877570	Q	L	QL	probably damaging
rs1141357	NP_853549	V	A	VA	benign
rs1141357	NP_877572	V	A	VA	benign
rs1141357	NP_877570	V	A	VA	benign
rs1141357	NP_898829	V	A	VA	possibly damaging
rs1141521	NP_976028	V	E	VE	benign
rs1141521	NP_005340	V	E	VE	benign
rs1141521	NP_056958	V	E	VE	benign
rs1141521	NP_976029	V	E	VE	benign
rs1141604	NP_000347	E	K	EK	benign
rs1141715	NP_002251	S	F	SF	benign
rs1141715	NP_031359	S	F	SF	benign
rs1141718	NP_000627	I	T	IT	benign
rs1141739	NP_075010	K	E	KE	benign
rs1141739	NP_075011	K	E	KE	benign
rs1141739	NP_002029	K	E	KE	benign
rs1141754	NP_002078	Q	K	QK	benign
rs1141832	NP_005735	D	N	DN	benign
rs1142057	NP_835223	I	V	IV	benign
rs1142185	NP_001276	E	V	EV	probably damaging
rs1142186	NP_003970	Q	R	QR	benign
rs1142248	NP_112536	V	L	VL	benign
rs1142249	NP_008836	S	L	SL	benign
rs1142251	NP_112536	H	L	HL	benign
rs1142256	NP_112536	V	I	VI	benign
rs1142257	NP_112536	K	R	KR	benign
rs1142258	NP_112536	S	P	SP	benign
rs1142259	NP_112536	L	F	LF	benign
rs1142260	NP_112536	P	A	PA	benign
rs1142295	NP_005956	M	I	MI	benign
rs1142295	NP_444254	M	I	MI	benign
rs1142295	NP_444255	M	I	MI	benign
rs1142295	NP_444256	M	I	MI	benign
rs1142295	NP_444257	M	I	MI	benign
rs1142295	NP_444258	M	I	MI	benign
rs1142295	NP_444253	M	I	MI	benign
rs1142530	NP_077718	L	P	LP	benign
rs1142531	XP_375664	N	K	NK	benign
rs1142532	XP_375664	W	R	WR	benign
rs1142881	XP_498425	L	F	LF	benign
rs1142882	XP_498425	M	V	MV	benign
rs1142917	NP_006587	N	Y	NY	possibly damaging
rs1142917	NP_955452	N	Y	NY	probably damaging
rs1143093	NP_001471	W	C	WC	benign
rs1143100	NP_697043	V	E	VE	benign

rs1143205	NP_570720	T	A	TA	possibly damaging
rs1143243	NP_000753	S	R	SR	benign
rs1143243	NP_085079	S	R	SR	benign
rs1143243	NP_000755	S	R	SR	possibly damaging
rs1143264	NP_066296	K	M	KM	benign
rs1143462	NP_004740	V	E	VE	benign
rs1143462	NP_954573	V	E	VE	benign
rs1143469	NP_037403	S	F	SF	benign
rs1143507	NP_036446	H	R	HR	benign
rs1143507	NP_839942	H	R	HR	benign
rs1143508	NP_036446	P	H	PH	benign
rs1143508	NP_839942	P	H	PH	benign
rs1143607	NP_057049	L	M	LM	benign
rs1143622	NP_001001	S	F	SF	benign
rs1143650	NP_000405	T	S	TS	benign
rs1143667	NP_066568	Y	C	YC	probably damaging
rs1143671	NP_066568	P	S	PS	benign
rs1143672	NP_066568	R	K	RK	benign
rs1143678	NP_000623	P	S	PS	possibly damaging
rs1143684	NP_000895	F	L	FL	probably damaging
rs1144122	NP_116176	E	K	EK	benign
rs1144507	NP_003446	A	V	AV	benign
rs1144566	NP_002919	R	H	RH	possibly damaging
rs1144790	XP_374898	K	N	KN	benign
rs1145231	NP_000525	M	T	MT	benign
rs1145232	NP_000525	G	R	GR	probably damaging
rs1145234	NP_000525	Y	H	YH	benign
rs1145547	XP_373053	L	M	LM	benign
rs1146858	NP_079084	S	F	SF	possibly damaging
rs1147238	NP_079439	V	A	VA	benign
rs1147990	NP_004614	T	S	TS	benign
rs1149056	NP_003748	Y	H	YH	possibly damaging
rs1149621	NP_056331	D	E	DE	benign
rs1150181	NP_001094	R	G	RG	probably damaging
rs1150258	NP_006841	Y	H	YH	benign
rs1150674	XP_167152	Y	C	YC	benign
rs1150752	NP_061978	T	A	TA	benign
rs1150767	NP_976034	L	F	LF	benign
rs1150767	NP_002692	L	F	LF	benign
rs1151489	XP_374898	Q	R	QR	benign
rs1151569	NP_057123	D	H	DH	possibly damaging
rs1151625	NP_060276	P	L	PL	probably damaging
rs1151640	XP_497748	I	V	IV	benign
rs1152186	NP_002556	V	M	VM	benign
rs1152187	NP_002556	N	T	NT	benign
rs1152188	NP_002556	P	L	PL	probably damaging

rs1152530	NP_060638	C	Y	CY	probably damaging
rs1152888	NP_009130	V	I	VI	benign
rs1153411	XP_496486	G	D	GD	possibly damaging
rs1153850	NP_076968	R	P	RP	possibly damaging
rs1154232	NP_000218	N	K	NK	benign
rs1154232	NP_937762	N	K	NK	benign
rs1154233	NP_000218	S	G	SG	benign
rs1154233	NP_937762	S	G	SG	benign
rs1154510	NP_002141	A	T	AT	possibly damaging
rs1155514	NP_113610	Q	H	QH	benign
rs1156281	NP_001717	K	N	KN	benign
rs1156281	NP_997072	K	N	KN	benign
rs1156287	NP_848604	G	R	GR	possibly damaging
rs1159148	XP_166300	Q	P	QP	benign
rs1160185	XP_293671	V	I	VI	benign
rs1162909	XP_496692	D	N	DN	benign
rs1162975	XP_056680	S	T	ST	benign
rs1164671	XP_208058	I	T	IT	benign
rs1165196	NP_005065	I	T	IT	benign
rs1165222	XP_371254	T	I	TI	benign
rs1166719	NP_689810	N	D	ND	benign
rs1168312	NP_387467	T	I	TI	benign
rs1169288	NP_000536	I	L	IL	benign
rs1169305	NP_000536	G	S	GS	benign
rs1170672	NP_741980	D	G	DG	benign
rs1170672	NP_055222	D	G	DG	possibly damaging
rs1170672	NP_741979	D	G	DG	possibly damaging
rs1170672	NP_741981	D	G	DG	possibly damaging
rs1174657	NP_982279	K	E	KE	benign
rs1174658	NP_982279	F	S	FS	benign
rs1175640	NP_061174	V	M	VM	benign
rs1176744	NP_006019	Y	S	YS	benign
rs1177573	NP_002804	R	W	RW	possibly damaging
rs1178027	NP_002827	P	L	PL	benign
rs1178027	NP_543031	P	L	PL	benign
rs1179916	NP_115714	K	M	KM	possibly damaging
rs1180116	NP_055925	I	V	IV	benign
rs1180117	NP_055925	C	R	CR	benign
rs1180318	NP_055386	F	L	FL	benign
rs1180330	XP_496359	L	P	LP	benign
rs1181883	NP_689705	T	M	TM	benign
rs1183409	NP_000723	G	A	GA	benign
rs1183768	NP_055861	R	G	RG	benign
rs1184626	NP_694541	L	I	LI	benign
rs1185193	NP_055861	E	D	ED	benign
rs1185244	NP_387467	P	L	PL	benign

rs1185246	NP_653325	I	T	IT	benign
rs1185845	NP_037452	E	K	EK	benign
rs1186902	NP_002033	H	R	HR	possibly damaging
rs1190736	NP_473362	V	L	VL	benign
rs1190788	NP_057461	S	N	SN	benign
rs1191778	NP_065830	E	G	EG	benign
rs1192269	XP_049952	V	I	VI	benign
rs1193851	XP_374898	S	C	SC	benign
rs1194099	XP_170658	D	V	DV	benign
rs1194100	XP_170658	V	L	VL	benign
rs1197660	NP_057726	A	G	AG	benign
rs1197665	NP_057726	T	N	TN	benign
rs1197675	NP_057726	G	R	GR	possibly damaging
rs1197682	NP_057726	Y	H	YH	benign
rs1197683	NP_057726	R	C	RC	benign
rs1198849	NP_653184	N	D	ND	possibly damaging
rs1199457	NP_036442	W	L	WL	benign
rs1200345	NP_056355	E	K	EK	benign
rs1200875	NP_443723	R	C	RC	benign
rs1201689	XP_031706	L	V	LV	benign
rs1201791	NP_689801	A	T	AT	benign
rs1202183	NP_000918	N	S	NS	benign
rs1202418	NP_003566	M	V	MV	benign
rs1204145	NP_071385	G	S	GS	benign
rs1205193	NP_808779	G	V	GV	possibly damaging
rs1205434	XP_028810	K	N	KN	benign
rs1206038	NP_001401	K	E	KE	benign
rs1207505	XP_210826	R	K	RK	benign
rs1207506	XP_210826	I	V	IV	benign
rs1207578	XP_093087	M	T	MT	benign
rs1207579	XP_093087	Q	E	QE	benign
rs1207580	XP_093087	A	T	AT	benign
rs1207582	XP_093087	S	N	SN	benign
rs1208149	XP_496933	V	M	VM	benign
rs1208150	XP_496933	P	Q	PQ	benign
rs1208152	XP_496933	W	R	WR	possibly damaging
rs1208606	NP_659448	N	K	NK	benign
rs1209412	XP_496933	G	E	GE	benign
rs1209750	NP_443723	K	N	KN	benign
rs1209879	NP_054785	A	T	AT	benign
rs1210131	NP_710141	A	G	AG	benign
rs1210795	NP_057726	R	H	RH	benign
rs1211554	NP_683762	D	Y	DY	probably damaging
rs1211795	XP_290923	P	A	PA	possibly damaging
rs1212604	NP_005600	S	L	SL	probably damaging
rs1212829	NP_055968	L	F	LF	benign

rs1212934	NP_001401	G	E	GE	possibly damaging
rs1212987	NP_114128	V	G	VG	benign
rs1213011	NP_056472	E	K	EK	benign
rs1213011	NP_775099	E	K	EK	benign
rs1214836	NP_542171	E	K	EK	benign
rs1216183	NP_055176	S	T	ST	benign
rs1216183	NP_780775	S	T	ST	benign
rs1217381	XP_496384	D	N	DN	benign
rs1217401	NP_006585	S	L	SL	benign
rs1218762	NP_036500	S	G	SG	benign
rs1218763	NP_036500	W	C	WC	possibly damaging
rs1218825	NP_690876	L	F	LF	benign
rs1225090	XP_371586	L	F	LF	benign
rs1227049	NP_071407	G	A	GA	possibly damaging
rs1227051	NP_071407	A	T	AT	benign
rs1227065	NP_071407	N	D	ND	benign
rs1229984	NP_000659	H	R	HR	probably damaging
rs1230345	NP_937882	Q	H	QH	benign
rs1230345	NP_003871	Q	H	QH	benign
rs1230345	NP_569080	Q	H	QH	benign
rs1233387	NP_009091	A	V	AV	benign
rs1233428	NP_861421	T	K	TK	benign
rs1237745	NP_057604	Q	H	QH	benign
rs1240504	NP_114127	V	I	VI	benign
rs1243117	NP_478144	A	S	AS	benign
rs1243117	NP_066009	A	S	AS	benign
rs1243469	NP_115961	Y	H	YH	possibly damaging
rs1243647	XP_372508	S	P	SP	benign
rs1247696	NP_068506	I	V	IV	benign
rs1248696	NP_004738	R	Q	RQ	benign
rs1249958	NP_006732	G	E	GE	probably damaging
rs1250209	NP_002017	I	V	IV	benign
rs1250209	NP_997639	I	V	IV	benign
rs1250209	NP_997640	I	V	IV	benign
rs1250209	NP_997641	I	V	IV	benign
rs1250209	NP_997643	I	V	IV	benign
rs1250209	NP_997647	I	V	IV	benign
rs1250259	NP_002017	Q	L	QL	benign
rs1250259	NP_473375	Q	L	QL	benign
rs1250259	NP_997639	Q	L	QL	benign
rs1250259	NP_997640	Q	L	QL	benign
rs1250259	NP_997641	Q	L	QL	benign
rs1250259	NP_997643	Q	L	QL	benign
rs1250259	NP_997647	Q	L	QL	benign
rs1254319	NP_777638	F	L	FL	benign
rs1256120	XP_495993	L	P	LP	possibly damaging

rs1256149	NP_004848	I	T	IT	benign
rs1260318	NP_073619	A	D	AD	possibly damaging
rs1260326	NP_001477	P	L	PL	probably damaging
rs1262686	NP_065188	R	Q	RQ	benign
rs1263872	NP_115961	P	A	PA	probably damaging
rs1264457	NP_005507	G	R	GR	benign
rs1264895	NP_001679	T	M	TM	benign
rs1265053	NP_054789	A	P	AP	possibly damaging
rs1265054	NP_054789	E	K	EK	benign
rs1265754	NP_006772	I	F	IF	benign
rs1265891	NP_110394	Q	R	QR	benign
rs1266494	NP_006113	S	F	SF	possibly damaging
rs1266787	NP_060570	M	T	MT	probably damaging
rs1269008	NP_060823	C	R	CR	probably damaging
rs1269215	NP_116024	Y	H	YH	possibly damaging
rs1269864	NP_872293	A	G	AG	benign
rs1270764	NP_777604	Q	R	QR	benign
rs1272484	XP_371108	F	L	FL	benign
rs1273679	NP_612503	E	K	EK	benign
rs1273680	NP_612503	R	G	RG	possibly damaging
rs1274523	NP_065749	D	Y	DY	possibly damaging
rs1274958	NP_149016	I	V	IV	benign
rs1274971	NP_665698	E	K	EK	benign
rs1274972	NP_665698	R	K	RK	benign
rs1275329	XP_497568	M	K	MK	probably damaging
rs1275523	NP_066918	I	T	IT	possibly damaging
rs1275533	NP_542159	G	D	GD	benign
rs1276286	NP_071405	E	V	EV	benign
rs1276708	NP_001072	R	W	RW	probably damaging
rs1276712	NP_001072	Y	C	YC	probably damaging
rs1277017	NP_775803	P	L	PL	probably damaging
rs1277207	NP_689976	S	N	SN	benign
rs1280395	NP_116255	T	P	TP	possibly damaging
rs1280396	NP_116255	T	A	TA	benign
rs1281138	NP_061859	D	N	DN	benign
rs1281145	NP_061859	P	L	PL	probably damaging
rs1281149	NP_061859	R	C	RC	benign
rs1281378	NP_056417	M	T	MT	benign
rs1284879	NP_004649	H	R	HR	benign
rs1286812	NP_005790	Q	H	QH	benign
rs1286812	NP_795352	Q	H	QH	benign
rs1286812	NP_795353	Q	H	QH	benign
rs1288095	NP_003095	V	A	VA	possibly damaging
rs1288389	NP_714914	V	A	VA	benign
rs1288401	NP_006662	R	Q	RQ	benign
rs1288598	XP_497676	E	A	EA	benign

rs1288775	NP_001473	Q	H	QH	benign
rs1289658	NP_079464	T	M	TM	benign
rs1291212	NP_852149	R	S	RS	benign
rs1291212	NP_852150	R	S	RS	benign
rs1291212	NP_115916	R	S	RS	benign
rs1292053	NP_057345	T	M	TM	benign
rs1293839	NP_001904	R	K	RK	benign
rs1293839	NP_852477	R	K	RK	benign
rs1293985	NP_005798	I	T	IT	benign
rs1298577	NP_060151	T	I	TI	possibly damaging
rs1299818	XP_497676	D	E	DE	benign
rs1299956	NP_660334	R	I	RI	probably damaging
rs1309181	XP_372891	K	R	KR	benign
rs1309184	XP_372891	D	G	DG	possibly damaging
rs1309185	XP_372891	Q	H	QH	benign
rs1309353	XP_375105	V	I	VI	benign
rs1313280	XP_372331	R	S	RS	benign
rs1316300	NP_066568	P	S	PS	benign
rs1316357	XP_497745	K	E	KE	benign
rs1318056	NP_005149	T	S	TS	benign
rs1318165	NP_115627	A	D	AD	benign
rs1318196	NP_055932	S	G	SG	benign
rs1318328	NP_443069	V	A	VA	benign
rs1318328	NP_005689	V	A	VA	possibly damaging
rs1318335	NP_006744	A	G	AG	benign
rs1318336	NP_006744	P	A	PA	possibly damaging
rs1318588	NP_057186	K	I	KI	possibly damaging
rs1318648	NP_036423	S	R	SR	benign
rs1318979	NP_113644	T	A	TA	benign
rs1319080	NP_065840	T	P	TP	possibly damaging
rs1319438	NP_002459	S	Y	SY	benign
rs1319931	XP_209719	R	C	RC	benign
rs1320303	NP_699160	V	L	VL	benign
rs1320308	NP_570128	A	E	AE	possibly damaging
rs1320434	NP_006744	D	N	DN	benign
rs1320571	NP_694986	S	N	SN	benign
rs1320958	XP_497654	I	V	IV	benign
rs1324366	XP_378185	E	A	EA	benign
rs1325321	XP_497373	K	E	KE	benign
rs1325927	NP_006675	F	I	FI	benign
rs1326331	NP_061926	T	I	TI	benign
rs1328361	NP_004120	N	H	NH	probably damaging
rs1329957	XP_088491	I	M	IM	benign
rs1331845	XP_497064	R	H	RH	benign
rs1334510	XP_498152	T	A	TA	benign
rs1334811	NP_000450	V	I	VI	benign

rs1336900	NP_115508	T	I	TI	possibly damaging
rs1338314	NP_061946	R	W	RW	benign
rs1339374	NP_777583	V	I	VI	benign
rs1339847	NP_056246	V	I	VI	benign
rs1340989	NP_004290	A	V	AV	benign
rs1341023	NP_001716	V	A	VA	benign
rs1341044	XP_071151	V	G	VG	benign
rs1342440	NP_000553	E	Q	EQ	benign
rs1342642	NP_055247	L	F	LF	benign
rs1344286	NP_821077	T	P	TP	possibly damaging
rs1344286	NP_690874	T	P	TP	possibly damaging
rs1344642	NP_056505	R	Q	RQ	benign
rs1345092	NP_056090	T	S	TS	benign
rs1345658	NP_919306	K	R	KR	possibly damaging
rs1345748	XP_058997	C	Y	CY	probably damaging
rs1345826	NP_653248	M	V	MV	probably damaging
rs1346044	NP_000544	C	R	CR	probably damaging
rs1347046	NP_006789	K	R	KR	benign
rs1350010	XP_496207	S	I	SI	benign
rs1350011	XP_496207	G	S	GS	benign
rs1350902	XP_166300	L	V	LV	benign
rs1351419	NP_149113	I	T	IT	benign
rs1352714	NP_060109	N	S	NS	benign
rs1353776	NP_057285	E	D	ED	benign
rs1356461	NP_036250	L	M	LM	benign
rs1359082	NP_995324	N	T	NT	benign
rs1359300	XP_378185	S	L	SL	benign
rs1359590	NP_055722	A	V	AV	benign
rs1359836	NP_055073	P	L	PL	probably damaging
rs1361040	NP_872628	Q	H	QH	possibly damaging
rs1361040	NP_079150	Q	H	QH	possibly damaging
rs1361365	NP_057629	R	Q	RQ	benign
rs1361754	NP_689704	I	T	IT	benign
rs1363422	NP_064552	T	A	TA	benign
rs1363752	XP_058997	E	G	EG	possibly damaging
rs1363753	XP_058997	G	R	GR	possibly damaging
rs1365776	NP_004501	R	G	RG	possibly damaging
rs1365776	NP_536349	R	G	RG	possibly damaging
rs1365776	NP_004500	R	G	RG	possibly damaging
rs1366245	XP_091886	M	I	MI	benign
rs1366257	XP_496320	G	E	GE	possibly damaging
rs1366258	XP_496320	E	A	EA	probably damaging
rs1366842	NP_919226	T	K	TK	benign
rs1367117	NP_000375	T	I	TI	benign
rs1367580	XP_048128	V	L	VL	benign
rs1368769	NP_872312	S	F	SF	benign



rs1368883	NP_788954	V	A	VA	benign
rs1370014	NP_543148	R	K	RK	benign
rs1372085	NP_006428	T	I	TI	benign
rs1372192	NP_055006	L	M	LM	benign
rs1374576	NP_653176	S	N	SN	benign
rs1376251	NP_795371	Y	C	YC	probably damaging
rs1377210	NP_112569	S	P	SP	probably damaging
rs1377436	XP_046570	Q	R	QR	benign
rs1378795	NP_078897	S	C	SC	benign
rs1378796	NP_078897	V	G	VG	possibly damaging
rs1380154	NP_055093	L	S	LS	benign
rs1380657	NP_115509	A	T	AT	benign
rs1380676	XP_088331	P	H	PH	possibly damaging
rs1380866	NP_001935	A	T	AT	benign
rs1381057	NP_006587	Q	R	QR	benign
rs1381057	NP_955452	Q	R	QR	benign
rs1383180	NP_714928	R	Q	RQ	benign
rs1383394	NP_079507	A	T	AT	benign
rs1383726	NP_000284	L	V	LV	benign
rs1385698	NP_068555	A	T	AT	benign
rs1385699	NP_068555	R	K	RK	benign
rs1386548	NP_694943	Q	H	QH	benign
rs1387006	NP_004148	H	P	HP	benign
rs1390938	NP_003044	I	T	IT	benign
rs1390963	NP_758954	M	I	MI	benign
rs1395027	NP_006718	S	F	SF	benign
rs1395266	NP_536723	I	T	IT	benign
rs1395267	NP_536723	P	S	PS	benign
rs1395268	NP_536723	A	E	AE	benign
rs1395388	NP_003232	E	Q	EQ	benign
rs1397706	NP_002340	D	N	DN	benign
rs1402467	NP_006579	D	E	DE	benign
rs1402954	NP_208385	V	I	VI	benign
rs1402954	NP_036307	V	I	VI	benign
rs1403811	XP_071099	V	I	VI	benign
rs1403812	XP_071099	M	V	MV	benign
rs1405069	NP_699201	P	T	PT	benign
rs1405570	NP_955473	V	I	VI	benign
rs1407134	NP_077272	R	W	RW	possibly damaging
rs1407856	NP_055876	Q	E	QE	benign
rs1407977	NP_689787	V	I	VI	benign
rs1408184	NP_079389	R	G	RG	possibly damaging
rs1409136	XP_084377	I	V	IV	benign
rs1409986	NP_000948	S	P	SP	benign
rs1411272	XP_071151	T	M	TM	probably damaging
rs1411707	XP_089747	L	F	LF	benign

rs1412360	NP_387504	T	A	TA	benign
rs1413426	NP_006527	G	D	GD	possibly damaging
rs1416829	NP_057629	R	G	RG	benign
rs1416840	NP_659484	I	T	IT	benign
rs1417290	NP_055876	R	K	RK	benign
rs1417816	XP_496393	M	I	MI	possibly damaging
rs1418387	NP_002720	A	V	AV	benign
rs1418538	NP_078964	I	V	IV	benign
rs1418843	XP_291548	L	F	LF	benign
rs1420635	NP_004954	L	F	LF	benign
rs1422645	NP_005822	P	A	PA	possibly damaging
rs1422795	NP_150377	S	G	SG	benign
rs1425917	NP_620144	A	V	AV	benign
rs1426310	NP_001933	V	M	VM	benign
rs1426355	XP_033113	V	A	VA	benign
rs1426654	NP_995322	T	A	TA	benign
rs1427916	NP_699185	E	K	EK	benign
rs1428180	XP_496320	F	S	FS	benign
rs1429077	NP_054872	N	S	NS	benign
rs1429148	NP_060911	E	K	EK	benign
rs1432273	NP_079029	M	V	MV	benign
rs1432862	NP_001438	R	C	RC	possibly damaging
rs1433083	NP_075562	A	T	AT	benign
rs1436731	NP_062565	E	D	ED	benign
rs1437880	NP_061921	R	G	RG	benign
rs1437881	NP_061921	A	G	AG	benign
rs1438157	NP_003460	A	V	AV	benign
rs1438391	NP_997290	D	N	DN	benign
rs1438694	XP_371139	M	L	ML	benign
rs1438914	XP_370866	I	L	IL	benign
rs1439922	NP_003460	A	V	AV	benign
rs1442138	NP_031377	T	A	TA	benign
rs1442139	NP_031377	V	I	VI	benign
rs1442730	NP_000042	R	K	RK	benign
rs1443417	XP_375397	Q	R	QR	benign
rs1443549	NP_004202	G	A	GA	benign
rs1445404	NP_742056	P	A	PA	benign
rs1445404	NP_742055	P	A	PA	possibly damaging
rs1445845	NP_055409	E	K	EK	benign
rs1445846	NP_055409	F	L	FL	benign
rs1445898	NP_653248	R	Q	RQ	benign
rs1450355	NP_077312	L	P	LP	benign
rs1451568	NP_114383	K	N	KN	benign
rs1451568	NP_112567	K	N	KN	benign
rs1453324	NP_877417	S	P	SP	probably damaging
rs1453325	NP_877417	N	D	ND	benign

rs1453326	NP_877417	A	D	AD	possibly damaging
rs1453541	XP_166900	M	T	MT	benign
rs1453542	XP_166900	S	T	ST	benign
rs1453543	XP_166900	D	G	DG	benign
rs1453544	XP_166900	M	V	MV	benign
rs1453547	XP_166898	P	L	PL	probably damaging
rs1454121	NP_055928	A	V	AV	benign
rs1454248	XP_496697	H	R	HR	probably damaging
rs1454248	XP_496698	H	R	HR	probably damaging
rs1454249	XP_496697	S	P	SP	benign
rs1454249	XP_496698	S	P	SP	benign
rs1455555	NP_002630	I	V	IV	benign
rs1456235	NP_057726	Q	R	QR	benign
rs1456908	XP_291204	T	I	TI	benign
rs1459248	NP_078937	P	L	PL	possibly damaging
rs1461777	XP_208320	K	E	KE	benign
rs1462983	XP_115092	P	S	PS	probably damaging
rs1464060	XP_291062	S	P	SP	possibly damaging
rs1464826	XP_496931	H	Q	HQ	benign
rs1464826	NP_775949	H	Q	HQ	benign
rs1464827	XP_496931	H	R	HR	probably damaging
rs1464827	NP_775949	H	R	HR	probably damaging
rs1464828	XP_496931	P	S	PS	probably damaging
rs1464828	NP_775949	P	S	PS	probably damaging
rs1464890	NP_057562	T	A	TA	benign
rs1465567	NP_689616	W	R	WR	probably damaging
rs1465789	NP_003424	P	L	PL	probably damaging
rs1465878	NP_002245	R	Q	RQ	benign
rs1466684	NP_076403	T	M	TM	probably damaging
rs1466684	NP_795713	T	M	TM	probably damaging
rs1466685	NP_037466	R	Q	RQ	benign
rs1466685	NP_068806	R	Q	RQ	benign
rs1466731	NP_056655	G	R	GR	possibly damaging
rs1466731	NP_056656	G	R	GR	possibly damaging
rs1466731	NP_001102	G	R	GR	possibly damaging
rs1467379	NP_006035	V	A	VA	benign
rs1467558	NP_000601	T	I	TI	benign
rs1467877	NP_005759	E	Q	EQ	benign
rs1468384	NP_037521	M	I	MI	possibly damaging
rs1468542	NP_054735	F	Y	FY	benign
rs1468564	NP_055043	L	V	LV	benign
rs1469087	NP_003427	D	G	DG	probably damaging
rs1469122	NP_064573	V	I	VI	benign
rs1469778	NP_066013	S	C	SC	benign
rs1470414	NP_055963	V	I	VI	benign
rs1471997	NP_861453	R	Q	RQ	benign

rs1473785	NP_055433	T	M	TM	benign
rs1475853	XP_496521	P	S	PS	possibly damaging
rs1476387	NP_003071	S	R	SR	benign
rs1476703	NP_006707	Y	N	YN	probably damaging
rs1476858	XP_294534	C	W	CW	probably damaging
rs1476859	XP_294534	A	T	AT	benign
rs1478453	XP_371755	H	Q	HQ	benign
rs1479500	NP_689803	S	T	ST	benign
rs1482804	NP_703145	G	R	GR	benign
rs1484418	NP_851999	M	I	MI	possibly damaging
rs1484858	NP_872433	P	L	PL	benign
rs1484873	NP_009094	V	I	VI	benign
rs1488689	NP_115987	I	T	IT	benign
rs1488690	NP_115987	V	M	VM	benign
rs1491242	XP_373030	Q	R	QR	benign
rs1491431	XP_374191	R	G	RG	possibly damaging
rs1491432	XP_374191	V	A	VA	benign
rs1491433	XP_374191	V	A	VA	benign
rs1491434	XP_374191	A	G	AG	benign
rs1493105	NP_057597	P	L	PL	probably damaging
rs1494555	NP_002176	V	I	VI	benign
rs1494558	NP_002176	I	T	IT	possibly damaging
rs1494961	NP_598375	I	V	IV	benign
rs1496121	NP_150645	R	G	RG	possibly damaging
rs1496121	NP_150647	R	G	RG	possibly damaging
rs1496121	NP_000671	R	G	RG	possibly damaging
rs1496856	NP_004755	R	K	RK	benign
rs1498467	XP_372354	H	Q	HQ	benign
rs1498468	XP_372354	L	F	LF	benign
rs1498469	XP_372354	I	T	IT	benign
rs1498486	XP_372356	A	S	AS	benign
rs1499280	NP_057030	L	M	LM	benign
rs1500088	NP_009105	H	P	HP	probably damaging
rs1500481	XP_371603	Y	H	YH	benign
rs1503185	NP_002834	R	Q	RQ	benign
rs1503193	XP_372376	R	G	RG	possibly damaging
rs1506418	NP_536723	T	A	TA	benign
rs1506419	NP_536723	R	W	RW	probably damaging
rs1509123	NP_694962	L	F	LF	benign
rs1510068	NP_872303	N	S	NS	benign
rs1510068	XP_496218	S	N	SN	benign
rs1510069	NP_872303	A	T	AT	benign
rs1510069	XP_496218	T	A	TA	benign
rs1510765	NP_689739	L	P	LP	benign
rs1510765	NP_995585	L	P	LP	benign
rs1515441	NP_114161	E	K	EK	benign

rs1515442	NP_114161	M	V	MV	benign
rs1517618	NP_037404	D	E	DE	benign
rs1521484	XP_372592	E	Q	EQ	benign
rs1521808	NP_003733	E	K	EK	benign
rs1522044	NP_073153	P	S	PS	benign
rs1523678	XP_071093	I	V	IV	benign
rs1525626	NP_849149	R	P	RP	possibly damaging
rs1527263	XP_374625	G	E	GE	benign
rs1527482	NP_006370	V	M	VM	benign
rs1529739	NP_003250	E	Q	EQ	benign
rs1529874	NP_004817	Y	H	YH	possibly damaging
rs1529927	NP_000330	G	A	GA	possibly damaging
rs1529979	NP_055855	K	Q	KQ	benign
rs1530496	NP_001360	G	E	GE	possibly damaging
rs1530498	NP_001360	T	A	TA	benign
rs1530824	XP_045907	D	Y	DY	possibly damaging
rs1532087	XP_497330	G	A	GA	benign
rs1532268	NP_076915	L	S	LS	benign
rs1532268	NP_002445	L	S	LS	benign
rs1532918	NP_009045	D	H	DH	probably damaging
rs1534282	NP_067653	I	T	IT	possibly damaging
rs1534284	NP_067653	R	Q	RQ	benign
rs1534561	NP_660338	Q	P	QP	benign
rs1535422	XP_048462	T	A	TA	benign
rs1535692	NP_005699	V	M	VM	benign
rs1535882	NP_006056	R	G	RG	possibly damaging
rs1536207	XP_495949	V	F	VF	benign
rs1536690	NP_919301	P	L	PL	probably damaging
rs1536929	XP_294534	L	S	LS	benign
rs1537044	NP_112178	R	C	RC	possibly damaging
rs1537172	XP_376554	E	D	ED	benign
rs1537232	NP_001362	T	M	TM	probably damaging
rs1537794	NP_116263	Q	K	QK	benign
rs1538137	NP_055784	N	H	NH	benign
rs1538660	NP_003631	P	L	PL	possibly damaging
rs1539172	NP_775821	K	R	KR	benign
rs1539567	NP_612370	N	D	ND	benign
rs1539587	NP_006166	A	V	AV	benign
rs1539587	NP_932326	A	V	AV	benign
rs1540615	NP_079164	I	T	IT	benign
rs1541185	NP_061935	A	T	AT	benign
rs1541797	NP_689761	R	Q	RQ	benign
rs1542087	NP_938015	Q	P	QP	possibly damaging
rs1542752	NP_839947	S	P	SP	probably damaging
rs1543500	NP_004897	S	R	SR	possibly damaging
rs1543547	NP_570970	R	G	RG	probably damaging

rs1545040	NP_036287	E	D	ED	benign
rs1545133	NP_061887	S	L	SL	benign
rs1545620	NP_004136	S	A	SA	benign
rs1546308	XP_292093	V	A	VA	benign
rs1546548	XP_496888	M	I	MI	benign
rs1546732	NP_057178	Q	H	QH	possibly damaging
rs1547742	NP_065859	S	L	SL	possibly damaging
rs1548349	NP_079195	E	Q	EQ	benign
rs1548476	NP_694963	I	T	IT	benign
rs1549206	XP_498030	V	I	VI	benign
rs1549207	XP_498030	W	G	WG	probably damaging
rs1550116	NP_077298	Q	R	QR	benign
rs1550931	NP_653246	Y	S	YS	probably damaging
rs1551118	NP_775862	T	A	TA	benign
rs1551122	NP_775862	N	S	NS	benign
rs1551886	NP_000686	R	H	RH	possibly damaging
rs1551888	NP_000686	N	S	NS	probably damaging
rs1552280	NP_596870	L	S	LS	possibly damaging
rs1552311	NP_000329	A	V	AV	benign
rs1554005	NP_060778	T	M	TM	benign
rs1555498	NP_055247	V	I	VI	benign
rs1555696	NP_570970	L	R	LR	benign
rs1555696	NP_079493	R	L	RL	benign
rs1556189	XP_294534	V	G	VG	probably damaging
rs1556314	NP_003298	D	E	DE	benign
rs1557294	NP_955360	T	A	TA	benign
rs1558049	NP_066968	V	I	VI	benign
rs1558876	NP_055775	T	S	TS	benign
rs1558878	NP_055775	W	R	WR	possibly damaging
rs1559205	NP_037367	S	F	SF	benign
rs1560058	NP_071423	S	N	SN	benign
rs1560079	NP_776161	G	V	GV	probably damaging
rs1560099	NP_060825	Y	C	YC	benign
rs1561736	NP_060822	T	I	TI	benign
rs1563632	NP_658988	R	H	RH	benign
rs1564374	NP_891992	R	Q	RQ	benign
rs1564374	NP_597840	R	Q	RQ	benign
rs1566286	NP_060411	A	T	AT	benign
rs1566405	XP_497333	S	F	SF	possibly damaging
rs1566734	NP_002834	Q	P	QP	benign
rs1567002	NP_775801	T	I	TI	possibly damaging
rs1567047	NP_078858	G	D	GD	possibly damaging
rs1567759	NP_778253	G	C	GC	benign
rs1568852	XP_496931	A	T	AT	benign
rs1568852	NP_775949	A	T	AT	benign
rs1569767	NP_065740	V	I	VI	benign

rs1570624	NP_060570	R	H	RH	possibly damaging
rs1570805	NP_653181	V	I	VI	benign
rs1570806	NP_653181	H	P	HP	benign
rs1572701	NP_997301	P	L	PL	possibly damaging
rs1572912	NP_060671	A	V	AV	benign
rs1572983	NP_001692	R	Q	RQ	benign
rs1573496	NP_000664	G	A	GA	probably damaging
rs1573509	XP_166805	L	V	LV	benign
rs1573536	NP_060327	R	H	RH	benign
rs1573537	NP_036440	G	E	GE	possibly damaging
rs1573649	NP_872355	M	T	MT	probably damaging
rs1574106	XP_097580	K	N	KN	benign
rs1574566	NP_000878	F	L	FL	probably damaging
rs1577181	NP_110378	I	T	IT	possibly damaging
rs1592624	NP_443132	N	H	NH	benign
rs1592624	NP_937756	N	H	NH	benign
rs1592624	NP_937757	N	H	NH	benign
rs1599882	NP_005308	G	R	GR	possibly damaging
rs1609860	NP_060034	H	P	HP	probably damaging
rs1610090	XP_496282	C	R	CR	benign
rs1610161	NP_060187	Q	H	QH	benign
rs1610557	NP_689492	C	W	CW	probably damaging
rs1610557	NP_954577	C	W	CW	probably damaging
rs1610558	NP_689492	K	N	KN	benign
rs1610558	NP_954577	K	N	KN	probably damaging
rs1611762	NP_005978	H	Q	HQ	benign
rs1611764	NP_005978	V	I	VI	benign
rs1611770	NP_002447	V	M	VM	benign
rs1611770	NP_877418	V	M	VM	benign
rs1611775	NP_114092	P	R	PR	benign
rs1613448	NP_004239	V	I	VI	benign
rs1613461	NP_999876	R	C	RC	benign
rs1613780	XP_378185	D	E	DE	benign
rs1613931	NP_149034	R	Q	RQ	possibly damaging
rs1615556	XP_498195	P	S	PS	benign
rs1617468	NP_443128	S	F	SF	benign
rs1617510	NP_055564	P	A	PA	benign
rs1617629	NP_004940	S	L	SL	benign
rs1617629	NP_077740	S	L	SL	benign
rs1618542	NP_689799	K	E	KE	benign
rs1619502	XP_376720	A	S	AS	benign
rs1619815	NP_060658	W	R	WR	possibly damaging
rs1619896	NP_060658	S	N	SN	benign
rs1619925	NP_060658	R	Q	RQ	benign
rs1620074	NP_060199	R	G	RG	possibly damaging
rs1620074	NP_573441	R	G	RG	possibly damaging

rs1620074	NP_631943	R	G	RG	possibly damaging
rs1620075	NP_000553	R	L	RL	probably damaging
rs1620402	NP_116255	L	V	LV	benign
rs1620442	XP_376720	G	R	GR	benign
rs1620560	XP_378185	R	C	RC	benign
rs1621378	NP_009187	T	I	TI	possibly damaging
rs1622002	NP_000845	M	I	MI	benign
rs1626153	XP_292784	T	S	TS	benign
rs1626154	NP_002555	R	C	RC	possibly damaging
rs1626154	NP_788085	R	C	RC	possibly damaging
rs1626154	NP_788086	R	C	RC	possibly damaging
rs1627735	XP_370992	T	I	TI	benign
rs1627915	XP_370992	G	E	GE	benign
rs1628172	XP_378185	C	R	CR	benign
rs1628310	XP_378185	A	T	AT	benign
rs1628576	NP_060199	Q	E	QE	benign
rs1628576	NP_573441	Q	E	QE	benign
rs1628576	NP_631943	Q	E	QE	benign
rs1629011	XP_378185	R	H	RH	benign
rs1629203	NP_057016	L	W	LW	benign
rs1629363	XP_291645	Q	R	QR	benign
rs1629363	XP_377644	R	Q	RQ	benign
rs1630312	NP_060179	H	Q	HQ	benign
rs1632144	NP_612365	P	A	PA	possibly damaging
rs1632242	NP_056346	R	G	RG	possibly damaging
rs1632245	NP_056346	G	W	GW	possibly damaging
rs1634730	XP_371809	V	A	VA	benign
rs1635141	NP_002526	G	A	GA	benign
rs1635141	NP_058197	G	A	GA	benign
rs1635242	NP_056234	S	G	SG	benign
rs1635246	NP_056234	V	A	VA	benign
rs1635498	NP_003677	C	R	CR	probably damaging
rs1635498	NP_569082	C	R	CR	probably damaging
rs1635712	NP_872628	G	D	GD	benign
rs1635712	NP_079150	G	D	GD	benign
rs1635798	XP_376720	V	G	VG	benign
rs1635802	XP_376720	L	P	LP	possibly damaging
rs1636632	NP_872625	K	E	KE	benign
rs1636632	NP_872624	Q	R	QR	benign
rs1636632	NP_085047	Q	R	QR	benign
rs1637696	XP_371891	G	V	GV	possibly damaging
rs1638089	XP_496902	F	S	FS	probably damaging
rs1638152	NP_065943	G	E	GE	benign
rs1638559	NP_996880	L	V	LV	benign
rs1638630	XP_370541	I	M	IM	benign
rs1639122	NP_001264	D	E	DE	benign



rs1642515	NP_955367	P	L	PL	probably damaging
rs1642515	NP_001456	P	L	PL	probably damaging
rs1643702	NP_001741	E	K	EK	benign
rs1643702	NP_775083	E	K	EK	benign
rs1643702	NP_775084	E	K	EK	benign
rs1643702	NP_775085	E	K	EK	benign
rs1644460	NP_000073	H	R	HR	probably damaging
rs1644698	XP_058997	P	A	PA	benign
rs1644731	NP_056540	M	T	MT	benign
rs1646008	NP_075061	V	L	VL	possibly damaging
rs1648162	XP_497318	S	F	SF	benign
rs1648348	NP_003636	Q	K	QK	benign
rs1648493	NP_942130	K	N	KN	probably damaging
rs1648493	NP_002631	K	N	KN	probably damaging
rs1650017	NP_852094	A	P	AP	possibly damaging
rs1651612	XP_496151	Q	R	QR	benign
rs1652374	NP_037458	S	N	SN	benign
rs1653624	NP_002553	N	I	NI	possibly damaging
rs1654280	XP_371151	R	K	RK	benign
rs1654416	NP_057447	K	E	KE	benign
rs1654551	NP_004908	S	A	SA	benign
rs1654634	NP_631915	F	L	FL	benign
rs1654635	NP_631915	M	T	MT	benign
rs1654643	NP_036446	Y	C	YC	benign
rs1654643	NP_839942	Y	C	YC	benign
rs1655518	NP_940949	G	E	GE	possibly damaging
rs1655519	NP_940949	Y	D	YD	benign
rs1656922	NP_000884	M	T	MT	benign
rs1657509	NP_689492	V	I	VI	benign
rs1657535	NP_996553	I	S	IS	benign
rs1657535	NP_996554	I	S	IS	benign
rs1657535	NP_573398	I	S	IS	benign
rs1657535	NP_570127	I	S	IS	benign
rs1657535	NP_573399	I	S	IS	benign
rs1657738	NP_066292	S	L	SL	benign
rs1657740	NP_066292	R	Q	RQ	benign
rs1657742	NP_066292	Q	H	QH	possibly damaging
rs1657907	NP_775800	R	P	RP	possibly damaging
rs1659455	XP_376720	V	E	VE	possibly damaging
rs1661715	NP_004515	P	S	PS	benign
rs1661960	NP_079200	A	E	AE	benign
rs1663564	NP_056090	V	I	VI	benign
rs1664022	XP_378185	R	L	RL	possibly damaging
rs1665335	NP_997188	G	R	GR	benign
rs1667354	XP_058997	D	G	DG	benign
rs1667363	XP_058997	S	C	SC	probably damaging

rs1667364	XP_058997	A	E	AE	probably damaging
rs1670195	NP_478100	S	C	SC	possibly damaging
rs1670195	NP_036233	S	C	SC	possibly damaging
rs1670283	NP_004295	I	V	IV	benign
rs1671021	NP_004515	F	L	FL	benign
rs1671036	NP_004515	H	R	HR	benign
rs1671064	NP_001095	Q	R	QR	possibly damaging
rs1671161	NP_060199	P	L	PL	probably damaging
rs1671161	NP_573441	P	L	PL	probably damaging
rs1671161	NP_631943	P	L	PL	probably damaging
rs1671926	NP_110381	S	T	ST	possibly damaging
rs1671926	NP_954630	S	T	ST	possibly damaging
rs1672457	NP_057726	Q	H	QH	possibly damaging
rs1672867	NP_115582	D	N	DN	benign
rs1673407	NP_803875	L	V	LV	benign
rs1673408	NP_803875	R	S	RS	benign
rs1673607	NP_077817	S	N	SN	benign
rs1673786	XP_496194	S	T	ST	benign
rs1675404	NP_000704	A	T	AT	probably damaging
rs1675953	NP_060855	E	K	EK	benign
rs1676015	XP_166300	T	S	TS	benign
rs1678160	NP_003104	M	V	MV	benign
rs1678674	NP_001362	A	T	AT	benign
rs1681072	NP_115721	E	D	ED	benign
rs1681262	NP_002876	L	V	LV	benign
rs1682061	NP_060771	P	R	PR	probably damaging
rs1685888	XP_371053	Q	H	QH	benign
rs1685889	XP_371053	Q	E	QE	benign
rs1687175	NP_036234	Q	P	QP	benign
rs1687176	NP_036234	Q	H	QH	benign
rs1687177	NP_036234	H	P	HP	probably damaging
rs1687219	NP_005778	T	P	TP	possibly damaging
rs1687252	NP_004414	E	Q	EQ	benign
rs1689721	NP_057442	G	S	GS	benign
rs1692060	XP_372563	D	N	DN	benign
rs1692060	XP_372565	D	N	DN	benign
rs1692061	XP_372563	C	R	CR	probably damaging
rs1692061	XP_372565	C	R	CR	probably damaging
rs1692062	XP_372563	K	E	KE	benign
rs1692062	XP_372565	K	E	KE	benign
rs1692864	XP_372163	L	P	LP	probably damaging
rs1692864	XP_372097	P	L	PL	probably damaging
rs1692896	XP_497024	N	Y	NY	benign
rs1692896	XP_497089	N	Y	NY	benign
rs1692898	XP_497024	H	D	HD	benign
rs1692898	XP_497089	H	D	HD	benign

rs1693362	NP_060742	H	P	HP	benign
rs1693482	NP_000660	R	Q	RQ	benign
rs1696351	NP_006009	M	I	MI	benign
rs1696351	NP_808219	M	I	MI	benign
rs1696551	NP_004794	W	G	WG	possibly damaging
rs1697144	NP_005573	V	I	VI	benign
rs1697558	XP_292784	I	T	IT	benign
rs1698597	XP_378185	R	W	RW	possibly damaging
rs1698605	XP_378185	A	S	AS	benign
rs1698624	XP_378185	F	I	FI	benign
rs1698647	XP_378185	A	T	AT	benign
rs1698681	XP_378185	H	R	HR	possibly damaging
rs1699107	NP_003096	E	Q	EQ	benign
rs1701407	XP_371304	E	D	ED	benign
rs1701407	XP_371302	E	D	ED	benign
rs1701408	XP_371304	G	D	GD	possibly damaging
rs1701408	XP_371302	G	D	GD	possibly damaging
rs1701772	NP_775109	A	T	AT	benign
rs1701772	NP_005546	A	T	AT	benign
rs1702003	NP_671517	G	D	GD	benign
rs1702003	NP_056362	G	D	GD	benign
rs1705343	XP_496542	N	Y	NY	possibly damaging
rs1705399	XP_291141	R	P	RP	possibly damaging
rs1705485	XP_497714	G	A	GA	benign
rs1708467	NP_115664	S	N	SN	benign
rs1708717	XP_376139	R	G	RG	possibly damaging
rs1708875	NP_775102	R	W	RW	possibly damaging
rs1709189	NP_666018	I	V	IV	benign
rs1709540	XP_499223	G	S	GS	benign
rs1709870	NP_006391	T	P	TP	benign
rs1711444	XP_497583	M	L	ML	benign
rs1713449	NP_009041	V	I	VI	benign
rs1713456	NP_009041	C	Y	CY	probably damaging
rs1713457	NP_009041	S	T	ST	benign
rs1713480	NP_060810	R	K	RK	benign
rs1713884	XP_496270	D	Y	DY	probably damaging
rs1713890	XP_496270	R	H	RH	possibly damaging
rs1714864	NP_066292	P	L	PL	probably damaging
rs1714865	NP_066292	E	A	EA	benign
rs1715297	NP_004202	S	L	SL	benign
rs1715828	NP_849143	T	S	TS	benign
rs1715919	NP_060835	Q	P	QP	benign
rs1717065	NP_954577	M	I	MI	benign
rs1717577	NP_999876	P	S	PS	possibly damaging
rs1717869	XP_498204	D	G	DG	possibly damaging
rs1717871	XP_498204	A	T	AT	benign

rs1717922	XP_291200	M	I	MI	benign
rs1718119	NP_002553	A	T	AT	benign
rs1719152	NP_002975	S	T	ST	benign
rs1721986	XP_497281	V	M	VM	benign
rs1723718	NP_079186	H	R	HR	benign
rs1723719	NP_079186	Q	R	QR	benign
rs1724577	NP_000250	D	E	DE	benign
rs1725578	XP_498230	R	P	RP	probably damaging
rs1726199	NP_056234	D	G	DG	benign
rs1726208	NP_056234	V	L	VL	benign
rs1726801	NP_002682	R	H	RH	benign
rs1726803	NP_002682	S	N	SN	benign
rs1726866	NP_789787	V	A	VA	benign
rs1727960	XP_093087	L	W	LW	probably damaging
rs1730376	NP_114128	L	W	LW	benign
rs1731017	NP_065737	Q	R	QR	benign
rs1731153	XP_496933	S	L	SL	benign
rs1731345	XP_496929	T	M	TM	possibly damaging
rs1732263	NP_149022	E	D	ED	benign
rs1732301	NP_149034	S	N	SN	benign
rs1732630	NP_060918	T	P	TP	possibly damaging
rs1733462	NP_065830	V	G	VG	possibly damaging
rs1734491	NP_036371	T	N	TN	benign
rs1734492	NP_036371	R	G	RG	probably damaging
rs1735010	NP_003544	L	V	LV	benign
rs1735011	NP_003544	P	L	PL	probably damaging
rs1735169	NP_003407	G	R	GR	benign
rs1735170	NP_003407	L	F	LF	benign
rs1736557	NP_008825	M	V	MV	benign
rs1736772	XP_496342	G	R	GR	possibly damaging
rs1736924	NP_061823	S	P	SP	probably damaging
rs1737103	XP_497653	S	C	SC	benign
rs1737105	XP_496344	D	G	DG	probably damaging
rs1737105	XP_291395	D	G	DG	probably damaging
rs1737108	XP_496343	C	S	CS	benign
rs1737108	XP_496345	C	S	CS	benign
rs1737145	NP_940870	A	V	AV	benign
rs1737737	NP_055386	A	G	AG	benign
rs1737738	NP_055386	A	P	AP	benign
rs1737739	NP_001711	A	V	AV	benign
rs1737739	NP_861525	A	V	AV	benign
rs1737740	NP_001711	H	Y	HY	probably damaging
rs1737740	NP_861525	H	Y	HY	probably damaging
rs1737957	NP_004167	T	S	TS	benign
rs1737959	NP_004167	S	N	SN	benign
rs1738023	NP_036199	N	D	ND	possibly damaging

rs1738025	NP_036199	T	A	TA	benign
rs1738248	NP_001362	R	W	RW	probably damaging
rs1738254	NP_001362	G	R	GR	benign
rs1738364	XP_496819	N	H	NH	benign
rs1740231	NP_115609	N	D	ND	benign
rs1740231	NP_954574	N	D	ND	benign
rs1741115	NP_057123	N	H	NH	possibly damaging
rs1741745	NP_008925	F	L	FL	benign
rs1741745	NP_008978	L	F	LF	benign
rs1741747	NP_008978	K	R	KR	benign
rs1741747	NP_932078	R	K	RK	benign
rs1744153	XP_496813	E	K	EK	benign
rs1747336	XP_293177	Q	K	QK	benign
rs1747930	XP_378185	S	T	ST	benign
rs1747958	XP_378185	K	E	KE	benign
rs1747960	XP_378185	L	F	LF	benign
rs1748020	NP_036519	S	F	SF	possibly damaging
rs1748986	NP_055564	P	L	PL	benign
rs1752427	NP_072093	V	A	VA	benign
rs1753858	NP_620133	E	K	EK	benign
rs1754169	XP_496905	L	M	LM	possibly damaging
rs1755403	NP_055078	S	T	ST	benign
rs1755403	NP_647474	S	T	ST	benign
rs1755403	NP_647473	S	T	ST	benign
rs1755755	NP_387504	P	A	PA	possibly damaging
rs1756165	XP_379639	T	A	TA	benign
rs1756165	XP_499140	T	A	TA	benign
rs1757095	NP_002151	Q	R	QR	benign
rs1758270	NP_387504	S	A	SA	benign
rs1758271	NP_387504	Q	R	QR	possibly damaging
rs1758272	NP_387504	A	S	AS	benign
rs1758286	NP_387504	R	T	RT	benign
rs1758567	NP_076918	V	A	VA	benign
rs1759072	NP_109590	K	I	KI	possibly damaging
rs1759073	NP_109590	P	A	PA	possibly damaging
rs1759074	NP_109590	S	R	SR	benign
rs1759075	NP_109590	Q	P	QP	benign
rs1760897	NP_009041	S	P	SP	possibly damaging
rs1760898	NP_009041	N	K	NK	benign
rs1760903	NP_009041	R	C	RC	benign
rs1760904	NP_009041	S	P	SP	possibly damaging
rs1762111	NP_000341	I	T	IT	benign
rs1762971	XP_497659	V	L	VL	benign
rs1763642	NP_001234	C	R	CR	probably damaging
rs1765761	NP_001280	D	H	DH	benign
rs1766848	NP_683762	H	Q	HQ	possibly damaging

rs1769156	XP_497707	R	W	RW	possibly damaging
rs1769259	NP_000498	R	K	RK	benign
rs1769774	NP_075389	P	S	PS	possibly damaging
rs1770043	XP_377644	K	R	KR	benign
rs1770043	XP_291645	R	K	RK	benign
rs1770380	NP_076427	D	Y	DY	benign
rs1770744	XP_496270	Q	H	QH	possibly damaging
rs1772256	NP_001494	T	I	TI	benign
rs1776148	NP_003677	G	E	GE	benign
rs1776148	NP_569082	G	E	GE	benign
rs1776342	NP_058515	A	T	AT	benign
rs1778076	NP_002042	A	D	AD	benign
rs1778158	XP_378185	L	P	LP	benign
rs1778159	XP_378185	V	E	VE	benign
rs1780742	XP_497684	C	G	CG	probably damaging
rs1780743	XP_497684	G	R	GR	possibly damaging
rs1781133	XP_497648	G	V	GV	probably damaging
rs1781872	XP_496300	K	T	KT	benign
rs1781873	XP_496300	K	E	KE	benign
rs1781935	XP_495795	R	G	RG	possibly damaging
rs1782218	XP_060318	V	I	VI	benign
rs1782239	XP_377659	G	R	GR	benign
rs1782240	XP_377659	V	D	VD	probably damaging
rs1782241	XP_377659	Y	C	YC	probably damaging
rs1782242	XP_377659	L	V	LV	benign
rs1782338	NP_060707	T	I	TI	benign
rs1782360	NP_006717	A	G	AG	benign
rs1782674	NP_005064	D	N	DN	possibly damaging
rs1783147	NP_803875	H	Q	HQ	benign
rs1783174	NP_803875	V	I	VI	benign
rs1784245	NP_005924	Q	P	QP	possibly damaging
rs1784246	NP_005924	Q	P	QP	possibly damaging
rs1784381	NP_005142	S	P	SP	benign
rs1784423	NP_004762	V	A	VA	benign
rs1784424	NP_004762	T	N	TN	benign
rs1785296	XP_290818	Q	P	QP	benign
rs1785472	NP_859016	V	M	VM	benign
rs1785506	NP_060919	R	Q	RQ	benign
rs1785506	NP_065918	R	Q	RQ	benign
rs1785506	NP_680476	R	Q	RQ	benign
rs1785870	XP_495898	L	F	LF	benign
rs1785928	NP_060725	V	M	VM	benign
rs1785934	NP_060725	T	P	TP	benign
rs1786484	NP_005924	K	Q	KQ	benign
rs1788778	XP_497583	R	H	RH	benign
rs1788799	NP_000262	I	M	IM	benign

rs1789052	NP_004940	H	N	HN	benign
rs1789052	NP_077740	H	N	HN	benign
rs1789053	NP_004940	V	M	VM	benign
rs1789053	NP_077740	V	M	VM	benign
rs1789054	NP_004940	I	M	IM	benign
rs1789054	NP_077740	I	M	IM	benign
rs1790069	NP_055601	T	N	TN	benign
rs1790746	XP_208522	A	D	AD	benign
rs1791085	NP_003794	V	L	VL	benign
rs1791634	NP_149022	E	Q	EQ	benign
rs1792120	NP_003096	I	V	IV	benign
rs1792754	XP_495898	R	P	RP	probably damaging
rs1792755	XP_495898	N	K	NK	possibly damaging
rs1793174	NP_694938	A	V	AV	benign
rs1793493	XP_370652	Q	P	QP	possibly damaging
rs1794108	NP_787128	G	E	GE	probably damaging
rs1794108	NP_002808	G	E	GE	probably damaging
rs1794109	NP_787128	L	F	LF	benign
rs1794109	NP_002808	L	F	LF	benign
rs1795717	XP_051091	S	F	SF	possibly damaging
rs1795743	NP_000100	R	K	RK	benign
rs1795743	NP_003997	R	K	RK	benign
rs1795743	NP_003998	R	K	RK	benign
rs1795743	NP_004000	R	K	RK	benign
rs1795743	NP_004002	R	K	RK	benign
rs1795743	NP_004003	R	K	RK	benign
rs1795743	NP_004005	R	K	RK	benign
rs1795743	NP_004006	R	K	RK	benign
rs1795743	NP_004008	R	K	RK	benign
rs1795743	NP_004011	R	K	RK	benign
rs1795743	NP_004001	R	K	RK	benign
rs1795743	NP_004004	R	K	RK	benign
rs1796814	NP_543144	V	A	VA	benign
rs1798192	NP_006009	P	T	PT	benign
rs1799107	XP_496888	V	A	VA	benign
rs1799112	XP_496888	R	G	RG	possibly damaging
rs1799125	NP_872625	S	R	SR	benign
rs1799126	NP_872624	R	W	RW	possibly damaging
rs1799126	NP_085047	R	W	RW	possibly damaging
rs1799194	XP_496902	Y	S	YS	probably damaging
rs1799304	XP_496888	V	I	VI	benign
rs1799335	XP_496888	V	I	VI	benign
rs1799529	XP_293352	P	H	PH	probably damaging
rs1799725	NP_000627	V	A	VA	benign
rs1799782	NP_006288	R	W	RW	probably damaging
rs1799791	NP_000391	I	M	IM	benign

rs1799792	NP_000391	H	Y	HY	benign
rs1799793	NP_000391	D	N	DN	benign
rs1799802	NP_005227	P	S	PS	probably damaging
rs1799803	NP_976227	D	E	DE	benign
rs1799803	NP_005442	D	E	DE	benign
rs1799806	NP_056646	P	R	PR	probably damaging
rs1799807	NP_000046	D	G	DG	probably damaging
rs1799811	NP_000843	A	V	AV	benign
rs1799814	NP_000490	T	N	TN	benign
rs1799816	NP_000199	V	M	VM	possibly damaging
rs1799821	NP_000089	V	I	VI	benign
rs1799822	NP_000089	M	V	MV	benign
rs1799823	NP_001600	S	G	SG	possibly damaging
rs1799830	NP_001054	G	S	GS	possibly damaging
rs1799835	NP_000231	F	V	FV	probably damaging
rs1799841	NP_001891	C	R	CR	probably damaging
rs1799853	NP_000762	R	C	RC	probably damaging
rs1799863	NP_000570	L	Q	LQ	possibly damaging
rs1799864	NP_000639	V	I	VI	benign
rs1799864	NP_000638	V	I	VI	benign
rs1799891	NP_005214	P	A	PA	benign
rs1799895	NP_003093	R	G	RG	possibly damaging
rs1799896	NP_000508	V	F	VF	probably damaging
rs1799896	NP_000549	V	F	VF	probably damaging
rs1799899	NP_001054	G	S	GS	benign
rs1799904	NP_000430	R	Q	RQ	benign
rs1799930	NP_000006	R	Q	RQ	possibly damaging
rs1799931	NP_000006	G	E	GE	benign
rs1799938	NP_000718	G	S	GS	benign
rs1799939	NP_065681	G	S	GS	benign
rs1799939	NP_066124	G	S	GS	benign
rs1799944	NP_000050	N	D	ND	benign
rs1799945	NP_620572	H	D	HD	benign
rs1799945	NP_620573	H	D	HD	possibly damaging
rs1799945	NP_620571	H	D	HD	probably damaging
rs1799945	NP_620574	H	D	HD	probably damaging
rs1799945	NP_620575	H	D	HD	probably damaging
rs1799945	NP_620578	H	D	HD	probably damaging
rs1799945	NP_000401	H	D	HD	probably damaging
rs1799950	NP_009230	Q	R	QR	possibly damaging
rs1799950	NP_009231	Q	R	QR	possibly damaging
rs1799950	NP_009232	Q	R	QR	possibly damaging
rs1799950	NP_009233	Q	R	QR	possibly damaging
rs1799950	NP_009228	Q	R	QR	possibly damaging
rs1799951	NP_000050	N	S	NS	benign
rs1799954	NP_000050	R	C	RC	possibly damaging



rs1799959	NP_000318	A	G	AG	benign
rs1799960	NP_000574	V	A	VA	benign
rs1799966	NP_009235	G	S	GS	benign
rs1799966	NP_009229	S	G	SG	benign
rs1799966	NP_009233	S	G	SG	benign
rs1799966	NP_009234	S	G	SG	benign
rs1799966	NP_009236	S	G	SG	benign
rs1799966	NP_009228	S	G	SG	benign
rs1799967	NP_009229	M	I	MI	benign
rs1799967	NP_009233	M	I	MI	benign
rs1799967	NP_009234	M	I	MI	benign
rs1799967	NP_009236	M	I	MI	benign
rs1799967	NP_009228	M	I	MI	benign
rs1799967	NP_009235	M	I	MI	benign
rs1799969	NP_000192	G	R	GR	probably damaging
rs1799971	NP_000905	N	D	ND	possibly damaging
rs1799972	NP_000905	A	V	AV	benign
rs1799974	NP_000905	R	H	RH	possibly damaging
rs1799977	NP_000240	I	V	IV	benign
rs1799979	NP_000327	T	M	TM	benign
rs1799983	NP_000594	D	E	DE	benign
rs1799990	NP_898902	M	V	MV	probably damaging
rs1799999	NP_002702	D	Y	DY	probably damaging
rs1800002	NP_000321	D	N	DN	benign
rs1800010	NP_004174	E	V	EV	possibly damaging
rs1800011	NP_000228	A	T	AT	possibly damaging
rs1800014	NP_898902	E	K	EK	benign
rs1800025	NP_000502	D	N	DN	benign
rs1800033	NP_954987	V	M	VM	benign
rs1800033	NP_000351	V	M	VM	benign
rs1800033	NP_954986	V	M	VM	benign
rs1800034	NP_000672	A	G	AG	benign
rs1800035	NP_000672	N	K	NK	possibly damaging
rs1800053	NP_000035	A	D	AD	benign
rs1800054	NP_000042	S	C	SC	possibly damaging
rs1800056	NP_000042	F	L	FL	possibly damaging
rs1800057	NP_000042	P	R	PR	probably damaging
rs1800058	NP_612149	L	F	LF	benign
rs1800058	NP_000042	L	F	LF	benign
rs1800058	NP_612150	L	F	LF	benign
rs1800059	NP_612149	S	R	SR	benign
rs1800059	NP_000042	S	R	SR	benign
rs1800060	NP_612149	V	I	VI	benign
rs1800060	NP_000042	V	I	VI	benign
rs1800061	NP_612149	G	A	GA	benign
rs1800061	NP_000042	G	A	GA	possibly damaging

rs1800067	NP_005227	R	Q	RQ	possibly damaging
rs1800068	NP_005227	R	T	RT	possibly damaging
rs1800069	NP_005227	I	T	IT	possibly damaging
rs1800072	NP_000483	V	I	VI	benign
rs1800073	NP_000483	R	C	RC	probably damaging
rs1800074	NP_000483	D	V	DV	probably damaging
rs1800076	NP_000483	R	Q	RQ	possibly damaging
rs1800078	NP_000483	L	P	LP	probably damaging
rs1800079	NP_000483	R	H	RH	possibly damaging
rs1800080	NP_000483	S	G	SG	possibly damaging
rs1800085	NP_000483	V	M	VM	benign
rs1800086	NP_000483	T	S	TS	possibly damaging
rs1800087	NP_000483	Q	H	QH	probably damaging
rs1800089	NP_000483	L	F	LF	benign
rs1800092	NP_000483	I	M	IM	benign
rs1800093	NP_000483	F	C	FC	probably damaging
rs1800097	NP_000483	V	I	VI	benign
rs1800098	NP_000483	G	A	GA	benign
rs1800099	NP_000483	S	G	SG	benign
rs1800100	NP_000483	R	C	RC	probably damaging
rs1800101	NP_000483	F	L	FL	benign
rs1800103	NP_000483	I	M	IM	possibly damaging
rs1800106	NP_000483	Y	H	YH	possibly damaging
rs1800107	NP_000483	S	I	SI	possibly damaging
rs1800110	NP_000483	L	S	LS	possibly damaging
rs1800111	NP_000483	L	F	LF	possibly damaging
rs1800112	NP_000483	I	T	IT	possibly damaging
rs1800114	NP_000483	A	V	AV	possibly damaging
rs1800120	NP_000483	R	L	RL	probably damaging
rs1800123	NP_000483	T	I	TI	benign
rs1800124	NP_005227	E	G	EG	possibly damaging
rs1800127	NP_002323	A	V	AV	benign
rs1800149	NP_000240	L	V	LV	benign
rs1800152	NP_000242	H	Q	HQ	probably damaging
rs1800172	NP_861462	G	S	GS	benign
rs1800172	NP_861463	G	S	GS	benign
rs1800172	NP_000209	G	S	GS	benign
rs1800197	NP_006252	A	T	AT	benign
rs1800203	NP_000406	S	G	SG	possibly damaging
rs1800205	NP_000301	I	T	IT	benign
rs1800209	NP_006484	K	R	KR	benign
rs1800240	NP_000080	R	H	RH	possibly damaging
rs1800250	NP_000080	T	P	TP	possibly damaging
rs1800256	NP_000100	Q	P	QP	possibly damaging
rs1800256	NP_003997	Q	P	QP	possibly damaging
rs1800256	NP_003998	Q	P	QP	possibly damaging

rs1800256	NP_004000	Q	P	QP	possibly damaging
rs1800256	NP_004001	Q	P	QP	possibly damaging
rs1800257	NP_000100	I	T	IT	possibly damaging
rs1800257	NP_003997	I	T	IT	possibly damaging
rs1800257	NP_003998	I	T	IT	possibly damaging
rs1800257	NP_004000	I	T	IT	possibly damaging
rs1800257	NP_004001	I	T	IT	possibly damaging
rs1800259	NP_000100	L	I	LI	benign
rs1800259	NP_003997	L	I	LI	benign
rs1800259	NP_003998	L	I	LI	benign
rs1800259	NP_004000	L	I	LI	benign
rs1800259	NP_004001	L	I	LI	benign
rs1800260	NP_000100	A	G	AG	benign
rs1800260	NP_003997	A	G	AG	benign
rs1800260	NP_003998	A	G	AG	benign
rs1800260	NP_004000	A	G	AG	benign
rs1800260	NP_004001	A	G	AG	benign
rs1800262	NP_000100	V	F	VF	possibly damaging
rs1800262	NP_003997	V	F	VF	possibly damaging
rs1800262	NP_003998	V	F	VF	possibly damaging
rs1800262	NP_004000	V	F	VF	possibly damaging
rs1800262	NP_004001	V	F	VF	possibly damaging
rs1800263	NP_000100	K	N	KN	benign
rs1800263	NP_003997	K	N	KN	benign
rs1800263	NP_003998	K	N	KN	benign
rs1800263	NP_004000	K	N	KN	benign
rs1800263	NP_004002	K	N	KN	benign
rs1800263	NP_004003	K	N	KN	benign
rs1800263	NP_004001	K	N	KN	benign
rs1800266	NP_000100	Q	H	QH	possibly damaging
rs1800266	NP_003997	Q	H	QH	possibly damaging
rs1800266	NP_003998	Q	H	QH	possibly damaging
rs1800266	NP_004000	Q	H	QH	possibly damaging
rs1800266	NP_004001	Q	H	QH	possibly damaging
rs1800269	NP_000100	T	I	TI	possibly damaging
rs1800269	NP_003997	T	I	TI	possibly damaging
rs1800269	NP_003998	T	I	TI	possibly damaging
rs1800269	NP_004000	T	I	TI	possibly damaging
rs1800269	NP_004001	T	I	TI	possibly damaging
rs1800270	NP_000100	A	P	AP	benign
rs1800270	NP_003997	A	P	AP	benign
rs1800270	NP_003998	A	P	AP	benign
rs1800270	NP_004000	A	P	AP	benign
rs1800270	NP_004001	A	P	AP	benign
rs1800271	NP_000100	N	S	NS	benign
rs1800271	NP_003997	N	S	NS	benign

rs1800271	NP_003998	N	S	NS	benign
rs1800271	NP_004000	N	S	NS	benign
rs1800271	NP_004002	N	S	NS	benign
rs1800271	NP_004003	N	S	NS	benign
rs1800271	NP_004001	N	S	NS	benign
rs1800273	NP_000100	R	W	RW	possibly damaging
rs1800273	NP_003997	R	W	RW	possibly damaging
rs1800273	NP_003998	R	W	RW	possibly damaging
rs1800273	NP_004000	R	W	RW	possibly damaging
rs1800273	NP_004002	R	W	RW	possibly damaging
rs1800273	NP_004003	R	W	RW	possibly damaging
rs1800273	NP_004001	R	W	RW	possibly damaging
rs1800275	NP_000100	Q	K	QK	benign
rs1800275	NP_003997	Q	K	QK	benign
rs1800275	NP_003998	Q	K	QK	benign
rs1800275	NP_004000	Q	K	QK	benign
rs1800275	NP_004002	Q	K	QK	benign
rs1800275	NP_004003	Q	K	QK	benign
rs1800275	NP_004001	Q	K	QK	benign
rs1800278	NP_000100	N	D	ND	benign
rs1800278	NP_003997	N	D	ND	benign
rs1800278	NP_003998	N	D	ND	benign
rs1800278	NP_004000	N	D	ND	benign
rs1800278	NP_004002	N	D	ND	benign
rs1800278	NP_004003	N	D	ND	benign
rs1800278	NP_004005	N	D	ND	benign
rs1800278	NP_004011	N	D	ND	benign
rs1800278	NP_004012	N	D	ND	benign
rs1800278	NP_004013	N	D	ND	benign
rs1800278	NP_004014	N	D	ND	benign
rs1800278	NP_004001	N	D	ND	benign
rs1800278	NP_004004	N	D	ND	benign
rs1800279	NP_000100	H	R	HR	benign
rs1800279	NP_003997	H	R	HR	benign
rs1800279	NP_003998	H	R	HR	benign
rs1800279	NP_004000	H	R	HR	benign
rs1800279	NP_004002	H	R	HR	benign
rs1800279	NP_004003	H	R	HR	benign
rs1800279	NP_004005	H	R	HR	benign
rs1800279	NP_004011	H	R	HR	benign
rs1800279	NP_004012	H	R	HR	benign
rs1800279	NP_004013	H	R	HR	benign
rs1800279	NP_004014	H	R	HR	benign
rs1800279	NP_004001	H	R	HR	benign
rs1800279	NP_004004	H	R	HR	benign
rs1800280	NP_004002	Q	R	QR	benign

rs1800280	NP_004003	Q	R	QR	benign
rs1800280	NP_004005	Q	R	QR	benign
rs1800280	NP_004011	Q	R	QR	benign
rs1800280	NP_004012	Q	R	QR	benign
rs1800280	NP_004013	Q	R	QR	benign
rs1800280	NP_004014	Q	R	QR	benign
rs1800280	NP_000100	Q	R	QR	possibly damaging
rs1800280	NP_003997	Q	R	QR	possibly damaging
rs1800280	NP_003998	Q	R	QR	possibly damaging
rs1800280	NP_004000	Q	R	QR	possibly damaging
rs1800280	NP_004001	Q	R	QR	possibly damaging
rs1800280	NP_004004	Q	R	QR	possibly damaging
rs1800282	NP_000126	V	D	VD	benign
rs1800288	NP_000123	D	V	DV	probably damaging
rs1800291	NP_000123	D	E	DE	benign
rs1800294	NP_000123	L	P	LP	benign
rs1800299	NP_000143	D	N	DN	possibly damaging
rs1800307	NP_000143	G	S	GS	possibly damaging
rs1800309	NP_000143	E	K	EK	benign
rs1800312	NP_000143	W	C	WC	probably damaging
rs1800314	NP_000143	V	I	VI	benign
rs1800315	NP_000143	T	I	TI	possibly damaging
rs1800321	NP_000522	K	R	KR	benign
rs1800324	NP_000522	L	P	LP	probably damaging
rs1800354	NP_000222	S	N	SN	benign
rs1800371	NP_000537	P	S	PS	benign
rs1800377	NP_000543	I	V	IV	benign
rs1800378	NP_000543	H	R	HR	benign
rs1800383	NP_000543	H	D	HD	benign
rs1800385	NP_000543	V	L	VL	benign
rs1800386	NP_000543	Y	C	YC	probably damaging
rs1800387	NP_000543	N	K	NK	benign
rs1800390	NP_000544	T	A	TA	benign
rs1800391	NP_000544	M	I	MI	possibly damaging
rs1800407	NP_000266	R	Q	RQ	benign
rs1800408	NP_000266	L	F	LF	benign
rs1800413	NP_000266	T	I	TI	possibly damaging
rs1800414	NP_000266	H	R	HR	probably damaging
rs1800417	NP_000266	I	T	IT	possibly damaging
rs1800422	NP_000363	R	Q	RQ	possibly damaging
rs1800425	NP_001155	N	S	NS	benign
rs1800425	NP_663722	N	S	NS	benign
rs1800429	NP_000511	V	M	VM	benign
rs1800430	NP_000511	N	D	ND	benign
rs1800431	NP_000511	V	I	VI	benign
rs1800433	NP_000005	C	Y	CY	probably damaging

rs1800434	NP_000005	R	H	RH	probably damaging
rs1800435	NP_000022	K	N	KN	benign
rs1800436	NP_000155	A	V	AV	benign
rs1800437	NP_000155	E	Q	EQ	benign
rs1800439	NP_000119	W	R	WR	probably damaging
rs1800440	NP_000095	N	S	NS	possibly damaging
rs1800443	NP_000788	V	G	VG	possibly damaging
rs1800445	NP_000167	N	S	NS	benign
rs1800447	NP_000885	W	R	WR	benign
rs1800449	NP_002308	R	Q	RQ	benign
rs1800450	NP_000233	G	D	GD	probably damaging
rs1800451	NP_000233	G	E	GE	probably damaging
rs1800452	NP_000570	R	Q	RQ	benign
rs1800453	NP_000584	D	G	DG	benign
rs1800456	NP_000265	L	F	LF	benign
rs1800457	NP_015565	T	S	TS	benign
rs1800458	NP_000362	G	S	GS	benign
rs1800461	NP_667342	L	M	LM	benign
rs1800461	NP_000146	L	M	LM	benign
rs1800461	NP_667343	L	M	LM	benign
rs1800462	NP_000358	A	P	AP	possibly damaging
rs1800466	NP_000231	K	R	KR	possibly damaging
rs1800467	NP_000516	L	V	LV	benign
rs1800476	NP_000375	V	I	VI	benign
rs1800477	NP_000624	A	T	AT	benign
rs1800477	NP_000648	A	T	AT	benign
rs1800493	NP_002328	V	M	VM	benign
rs1800496	NP_057658	P	S	PS	benign
rs1800496	NP_000786	P	S	PS	benign
rs1800497	NP_848605	E	K	EK	benign
rs1800520	NP_000374	S	R	SR	benign
rs1800527	NP_004928	K	R	KR	benign
rs1800546	NP_000026	A	P	AP	probably damaging
rs1800548	NP_000341	E	K	EK	benign
rs1800549	NP_000341	T	M	TM	benign
rs1800550	NP_000341	R	S	RS	benign
rs1800551	NP_000341	G	R	GR	benign
rs1800552	NP_000341	R	H	RH	probably damaging
rs1800553	NP_000341	G	E	GE	probably damaging
rs1800554	NP_000341	L	F	LF	benign
rs1800555	NP_000341	D	N	DN	benign
rs1800556	NP_000008	R	W	RW	benign
rs1800557	NP_958816	A	V	AV	benign
rs1800557	NP_958817	A	V	AV	benign
rs1800557	NP_000475	A	V	AV	probably damaging
rs1800559	NP_000060	R	H	RH	probably damaging

rs1800561	NP_001766	R	W	RW	possibly damaging
rs1800562	NP_620572	C	Y	CY	probably damaging
rs1800562	NP_620573	C	Y	CY	probably damaging
rs1800562	NP_620575	C	Y	CY	probably damaging
rs1800562	NP_620576	C	Y	CY	probably damaging
rs1800562	NP_620577	C	Y	CY	probably damaging
rs1800562	NP_620578	C	Y	CY	probably damaging
rs1800562	NP_620579	C	Y	CY	probably damaging
rs1800562	NP_000401	C	Y	CY	probably damaging
rs1800564	NP_000221	V	M	VM	benign
rs1800565	NP_000247	R	H	RH	benign
rs1800566	NP_000894	P	S	PS	possibly damaging
rs1800567	NP_006202	G	D	GD	possibly damaging
rs1800571	NP_619726	P	Q	PQ	probably damaging
rs1800572	NP_000331	V	I	VI	benign
rs1800573	NP_000535	D	G	DG	possibly damaging
rs1800573	NP_061313	D	G	DG	possibly damaging
rs1800574	NP_000536	A	V	AV	benign
rs1800576	NP_000352	A	T	AT	benign
rs1800577	NP_000352	G	A	GA	benign
rs1800578	NP_000352	P	S	PS	possibly damaging
rs1800579	NP_000352	P	L	PL	possibly damaging
rs1800582	NP_002090	G	R	GR	benign
rs1800595	NP_000121	H	R	HR	possibly damaging
rs1800620	NP_000585	A	T	AT	benign
rs1800670	NP_009034	I	F	IF	possibly damaging
rs1800704	NP_009230	M	I	MI	possibly damaging
rs1800704	NP_009231	M	I	MI	possibly damaging
rs1800704	NP_009232	M	I	MI	possibly damaging
rs1800704	NP_009233	M	I	MI	possibly damaging
rs1800704	NP_009228	M	I	MI	possibly damaging
rs1800707	NP_009229	K	N	KN	benign
rs1800707	NP_009234	K	N	KN	benign
rs1800707	NP_009236	K	N	KN	benign
rs1800707	NP_009235	K	N	KN	benign
rs1800707	NP_009230	K	N	KN	possibly damaging
rs1800707	NP_009231	K	N	KN	possibly damaging
rs1800707	NP_009232	K	N	KN	possibly damaging
rs1800707	NP_009233	K	N	KN	possibly damaging
rs1800707	NP_009228	K	N	KN	possibly damaging
rs1800709	NP_009230	R	W	RW	possibly damaging
rs1800709	NP_009231	R	W	RW	possibly damaging
rs1800709	NP_009232	R	W	RW	possibly damaging
rs1800709	NP_009233	R	W	RW	possibly damaging
rs1800709	NP_009228	R	W	RW	possibly damaging
rs1800725	NP_066399	R	Q	RQ	benign

rs1800725	NP_066400	R	Q	RQ	benign
rs1800725	NP_000539	R	Q	RQ	benign
rs1800726	NP_009233	A	P	AP	benign
rs1800726	NP_009234	A	P	AP	benign
rs1800726	NP_009236	A	P	AP	benign
rs1800726	NP_009228	A	P	AP	benign
rs1800726	NP_009235	A	P	AP	benign
rs1800729	NP_066399	A	T	AT	benign
rs1800729	NP_066400	A	T	AT	benign
rs1800729	NP_000539	A	T	AT	benign
rs1800730	NP_620572	S	C	SC	benign
rs1800730	NP_620573	S	C	SC	benign
rs1800730	NP_620571	S	C	SC	possibly damaging
rs1800730	NP_620574	S	C	SC	possibly damaging
rs1800730	NP_620575	S	C	SC	possibly damaging
rs1800730	NP_620578	S	C	SC	possibly damaging
rs1800730	NP_000401	S	C	SC	possibly damaging
rs1800744	NP_009229	S	I	SI	possibly damaging
rs1800744	NP_009233	S	I	SI	possibly damaging
rs1800744	NP_009234	S	I	SI	possibly damaging
rs1800744	NP_009236	S	I	SI	possibly damaging
rs1800744	NP_009228	S	I	SI	possibly damaging
rs1800744	NP_009235	S	I	SI	possibly damaging
rs1800746	NP_000382	Q	R	QR	benign
rs1800748	NP_066399	M	V	MV	benign
rs1800748	NP_066400	M	V	MV	benign
rs1800748	NP_000539	M	V	MV	benign
rs1800751	NP_009233	P	S	PS	probably damaging
rs1800751	NP_009234	P	S	PS	probably damaging
rs1800751	NP_009236	P	S	PS	probably damaging
rs1800751	NP_009228	P	S	PS	probably damaging
rs1800751	NP_009235	P	S	PS	probably damaging
rs1800757	NP_009229	P	S	PS	probably damaging
rs1800757	NP_009233	P	S	PS	probably damaging
rs1800757	NP_009234	P	S	PS	probably damaging
rs1800757	NP_009236	P	S	PS	probably damaging
rs1800757	NP_009228	P	S	PS	probably damaging
rs1800757	NP_009235	P	S	PS	probably damaging
rs1800762	NP_000789	P	Q	PQ	benign
rs1800777	NP_000069	R	Q	RQ	benign
rs1800866	NP_671515	Q	P	QP	benign
rs1800866	NP_005857	Q	P	QP	benign
rs1800866	NP_671513	Q	P	QP	benign
rs1800867	NP_006744	T	M	TM	benign
rs1800884	NP_005949	A	V	AV	benign
rs1800885	NP_005949	R	W	RW	probably damaging



rs1800888	NP_000015	T	I	TI	possibly damaging
rs1800938	NP_000170	E	D	ED	benign
rs1800939	NP_000570	A	S	AS	benign
rs1800940	NP_000570	R	S	RS	possibly damaging
rs1800943	NP_000570	G	V	GV	possibly damaging
rs1800944	NP_000570	A	V	AV	benign
rs1800945	NP_000570	Y	F	YF	benign
rs1800956	NP_000109	D	H	DH	possibly damaging
rs1800961	NP_000448	T	I	TI	benign
rs1800961	NP_849180	T	I	TI	benign
rs1800961	NP_849181	T	I	TI	benign
rs1800967	NP_005209	A	V	AV	benign
rs1800968	NP_005209	C	S	CS	probably damaging
rs1800973	NP_000230	T	N	TN	benign
rs1800974	NP_002197	H	R	HR	benign
rs1800991	NP_077078	K	N	KN	benign
rs1800991	NP_003285	N	K	NK	benign
rs1800992	NP_077078	T	A	TA	benign
rs1800992	NP_003285	T	A	TA	benign
rs1801013	NP_001941	T	P	TP	benign
rs1801016	NP_003836	D	V	DV	probably damaging
rs1801019	NP_000364	G	A	GA	benign
rs1801021	NP_114438	T	P	TP	possibly damaging
rs1801022	NP_478102	P	L	PL	probably damaging
rs1801028	NP_057658	S	C	SC	benign
rs1801028	NP_000786	S	C	SC	possibly damaging
rs1801030	NP_001046	V	M	VM	benign
rs1801030	NP_803565	V	M	VM	benign
rs1801030	NP_803566	V	M	VM	benign
rs1801030	NP_803878	V	M	VM	benign
rs1801030	NP_803880	V	M	VM	benign
rs1801033	NP_000056	E	A	EA	possibly damaging
rs1801058	NP_005298	A	V	AV	benign
rs1801058	NP_892027	A	V	AV	benign
rs1801077	NP_037453	A	P	AP	benign
rs1801086	NP_000531	G	R	GR	probably damaging
rs1801105	NP_008826	T	I	TI	possibly damaging
rs1801108	NP_005535	P	R	PR	probably damaging
rs1801109	NP_694592	A	D	AD	probably damaging
rs1801109	NP_002028	A	D	AD	probably damaging
rs1801109	NP_694593	A	D	AD	probably damaging
rs1801111	NP_001613	F	S	FS	benign
rs1801114	NP_000386	V	M	VM	benign
rs1801115	NP_000386	G	V	GV	probably damaging
rs1801118	NP_005535	M	T	MT	possibly damaging
rs1801120	NP_005535	S	F	SF	possibly damaging

rs1801121	NP_694592	I	F	IF	probably damaging
rs1801121	NP_002028	I	F	IF	probably damaging
rs1801121	NP_694593	I	F	IF	probably damaging
rs1801122	NP_000386	P	T	PT	probably damaging
rs1801124	NP_005347	T	M	TM	benign
rs1801128	NP_002533	S	T	ST	benign
rs1801128	NP_058213	V	L	VL	benign
rs1801131	NP_005948	A	E	AE	possibly damaging
rs1801133	NP_005948	A	V	AV	benign
rs1801155	NP_000029	I	K	IK	possibly damaging
rs1801164	NP_003595	H	D	HD	probably damaging
rs1801165	NP_003595	K	T	KT	benign
rs1801166	NP_000029	E	Q	EQ	benign
rs1801175	NP_000142	R	C	RC	probably damaging
rs1801176	NP_000142	R	H	RH	possibly damaging
rs1801177	NP_000228	D	N	DN	possibly damaging
rs1801178	NP_000483	I	V	IV	benign
rs1801187	NP_000100	R	H	RH	possibly damaging
rs1801187	NP_003997	R	H	RH	possibly damaging
rs1801187	NP_003998	R	H	RH	possibly damaging
rs1801187	NP_004000	R	H	RH	possibly damaging
rs1801187	NP_004002	R	H	RH	possibly damaging
rs1801187	NP_004003	R	H	RH	possibly damaging
rs1801187	NP_004001	R	H	RH	possibly damaging
rs1801197	NP_001733	L	P	LP	benign
rs1801198	NP_000346	R	P	RP	benign
rs1801200	NP_004439	V	I	VI	benign
rs1801201	NP_004439	I	V	IV	benign
rs1801203	NP_000439	A	V	AV	benign
rs1801204	NP_001599	S	T	ST	benign
rs1801208	NP_005996	R	H	RH	possibly damaging
rs1801212	NP_005996	I	V	IV	benign
rs1801216	XP_208313	A	V	AV	benign
rs1801220	NP_001072	F	I	FI	possibly damaging
rs1801222	NP_001072	S	F	SF	possibly damaging
rs1801224	NP_001072	P	T	PT	benign
rs1801227	NP_001072	Y	H	YH	benign
rs1801230	NP_001072	T	I	TI	possibly damaging
rs1801231	NP_001072	P	S	PS	benign
rs1801232	NP_001072	N	K	NK	benign
rs1801235	NP_001072	L	F	LF	benign
rs1801236	NP_001072	P	R	PR	possibly damaging
rs1801237	NP_001072	G	R	GR	probably damaging
rs1801238	NP_001072	L	I	LI	benign
rs1801239	NP_001072	I	V	IV	benign
rs1801240	NP_001072	E	G	EG	possibly damaging

rs1801243	NP_000044	S	A	SA	benign
rs1801244	NP_000044	V	L	VL	benign
rs1801249	NP_000044	V	A	VA	benign
rs1801251	NP_002233	I	T	IT	benign
rs1801252	NP_000675	S	G	SG	possibly damaging
rs1801253	NP_000675	G	R	GR	possibly damaging
rs1801255	NP_958933	Q	H	QH	benign
rs1801255	NP_958932	Q	H	QH	benign
rs1801255	NP_005673	Q	H	QH	benign
rs1801256	NP_000048	S	T	ST	benign
rs1801257	NP_958933	S	R	SR	benign
rs1801257	NP_958932	S	R	SR	benign
rs1801257	NP_005673	S	R	SR	benign
rs1801262	NP_002491	A	T	AT	benign
rs1801268	NP_000101	V	F	VF	probably damaging
rs1801269	NP_000341	R	L	RL	probably damaging
rs1801270	NP_510867	S	R	SR	benign
rs1801271	NP_005202	Y	C	YC	probably damaging
rs1801272	NP_000753	L	H	LH	probably damaging
rs1801273	NP_001434	A	T	AT	benign
rs1801274	NP_067674	R	H	RH	benign
rs1801275	NP_000409	Q	R	QR	benign
rs1801276	NP_005535	A	P	AP	benign
rs1801277	NP_005535	S	G	SG	benign
rs1801278	NP_005535	G	R	GR	probably damaging
rs1801279	NP_000006	R	Q	RQ	possibly damaging
rs1801280	NP_000006	I	T	IT	benign
rs1801281	NP_004549	A	S	AS	benign
rs1801282	NP_056953	P	A	PA	possibly damaging
rs1801284	NP_036424	R	H	RH	benign
rs1801285	NP_872575	E	D	ED	benign
rs1801285	NP_872577	E	D	ED	benign
rs1801285	NP_000186	E	D	ED	benign
rs1801286	NP_872577	A	V	AV	benign
rs1801286	NP_000186	A	V	AV	benign
rs1801288	NP_004539	A	V	AV	benign
rs1801311	NP_002481	A	V	AV	benign
rs1801316	NP_004532	G	R	GR	probably damaging
rs1801323	NP_543142	M	L	ML	benign
rs1801328	NP_004327	E	D	ED	benign
rs1801329	NP_005339	D	A	DA	possibly damaging
rs1801334	NP_054642	D	N	DN	benign
rs1801334	NP_054643	D	N	DN	benign
rs1801334	NP_004553	D	N	DN	benign
rs1801350	NP_064621	D	H	DH	probably damaging
rs1801351	NP_003309	K	R	KR	benign

rs1801369	NP_000341	S	I	SI	possibly damaging
rs1801376	NP_001202	Q	R	QR	benign
rs1801394	NP_076915	M	I	MI	benign
rs1801394	NP_002445	M	I	MI	benign
rs1801397	NP_002027	T	K	TK	possibly damaging
rs1801404	NP_666023	W	L	WL	probably damaging
rs1801417	NP_006824	N	S	NS	possibly damaging
rs1801421	NP_434698	G	R	GR	probably damaging
rs1801421	NP_005789	G	R	GR	probably damaging
rs1801421	NP_998755	G	R	GR	probably damaging
rs1801426	NP_000050	I	V	IV	benign
rs1801431	NP_006125	A	V	AV	benign
rs1801442	NP_006039	R	G	RG	probably damaging
rs1801449	NP_077320	A	T	AT	benign
rs1801449	NP_775110	A	T	AT	benign
rs1801449	NP_997629	A	T	AT	benign
rs1801449	NP_997630	A	T	AT	benign
rs1801449	NP_000061	A	T	AT	benign
rs1801455	NP_543142	R	T	RT	possibly damaging
rs1801466	NP_000341	N	I	NI	possibly damaging
rs1801467	NP_852470	E	D	ED	benign
rs1801467	NP_258412	E	D	ED	benign
rs1801474	NP_054642	S	N	SN	benign
rs1801474	NP_004553	S	N	SN	benign
rs1801475	NP_004509	N	T	NT	benign
rs1801475	NP_742104	N	T	NT	benign
rs1801475	NP_742106	N	T	NT	benign
rs1801475	NP_742105	N	T	NT	benign
rs1801482	NP_002027	T	K	TK	possibly damaging
rs1801505	NP_077320	E	K	EK	benign
rs1801505	NP_775110	E	K	EK	benign
rs1801505	NP_997629	E	K	EK	benign
rs1801505	NP_997630	E	K	EK	benign
rs1801505	NP_000061	E	K	EK	benign
rs1801514	NP_003063	M	I	MI	possibly damaging
rs1801516	NP_000042	D	N	DN	benign
rs1801516	NP_612149	D	N	DN	possibly damaging
rs1801518	NP_543142	S	N	SN	possibly damaging
rs1801528	NP_001202	V	A	VA	benign
rs1801567	NP_219486	V	L	VL	benign
rs1801581	NP_000341	R	Q	RQ	benign
rs1801582	NP_054643	V	L	VL	benign
rs1801582	NP_004553	V	L	VL	benign
rs1801587	NP_077002	Y	C	YC	probably damaging
rs1801612	NP_000288	I	V	IV	benign
rs1801673	NP_612149	D	V	DV	probably damaging

rs1801673	NP_000042	D	V	DV	probably damaging
rs1801674	NP_067653	Q	K	QK	benign
rs1801685	NP_000319	S	I	SI	benign
rs1801687	NP_000319	R	K	RK	benign
rs1801688	NP_000319	G	E	GE	probably damaging
rs1801689	NP_000033	C	G	CG	probably damaging
rs1801690	NP_000033	W	S	WS	probably damaging
rs1801692	NP_000033	S	N	SN	benign
rs1801694	NP_000375	A	T	AT	benign
rs1801695	NP_000375	A	T	AT	benign
rs1801696	NP_000375	E	K	EK	benign
rs1801698	NP_000375	T	A	TA	benign
rs1801699	NP_000375	N	S	NS	benign
rs1801701	NP_000375	R	Q	RQ	benign
rs1801702	NP_000375	R	T	RT	possibly damaging
rs1801703	NP_000375	V	M	VM	benign
rs1801710	NP_003982	G	S	GS	benign
rs1801710	NP_000106	G	S	GS	benign
rs1801714	NP_000192	P	L	PL	probably damaging
rs1801715	NP_000566	D	H	DH	possibly damaging
rs1801716	NP_000891	K	E	KE	benign
rs1801725	NP_000379	A	S	AS	benign
rs1801726	NP_000379	Q	E	QE	benign
rs1801733	NP_004868	T	K	TK	benign
rs1801749	NP_005774	V	F	VF	benign
rs1801753	NP_036465	E	D	ED	benign
rs1801804	NP_002584	S	P	SP	benign
rs1801811	NP_003592	K	E	KE	benign
rs1801849	NP_001341	Q	H	QH	possibly damaging
rs1801850	NP_001341	K	R	KR	benign
rs1801855	NP_004778	V	D	VD	probably damaging
rs1801863	NP_055530	V	A	VA	benign
rs1801870	NP_055664	S	T	ST	benign
rs1801893	NP_055720	K	T	KT	possibly damaging
rs1801902	NP_074035	T	A	TA	benign
rs1801902	NP_002465	T	A	TA	benign
rs1801913	NP_057295	P	T	PT	probably damaging
rs1801913	NP_055748	P	T	PT	probably damaging
rs1801914	NP_055759	S	Y	SY	benign
rs1801916	XP_376328	L	I	LI	benign
rs1801932	NP_057943	W	C	WC	probably damaging
rs1801951	NP_036232	S	T	ST	benign
rs1801955	NP_006614	W	R	WR	probably damaging
rs1801956	NP_003453	P	L	PL	possibly damaging
rs1801962	NP_006336	L	S	LS	possibly damaging
rs1801963	NP_004077	P	S	PS	benign

rs1801964	NP_004578	A	D	AD	possibly damaging
rs1801968	NP_000104	D	H	DH	benign
rs1801983	NP_477352	N	I	NI	probably damaging
rs1801989	NP_001272	P	L	PL	probably damaging
rs1801990	NP_001272	P	Q	PQ	probably damaging
rs1802002	NP_006310	R	C	RC	possibly damaging
rs1802010	NP_036234	R	H	RH	benign
rs1802033	NP_059830	R	W	RW	probably damaging
rs1802050	NP_006205	C	F	CF	probably damaging
rs1802054	NP_003575	R	L	RL	possibly damaging
rs1802055	NP_002767	K	E	KE	benign
rs1802055	NP_665895	K	E	KE	benign
rs1802064	NP_006422	R	I	RI	benign
rs1802065	NP_006421	L	F	LF	possibly damaging
rs1802069	NP_006421	R	L	RL	benign
rs1802070	NP_005872	R	C	RC	probably damaging
rs1802073	NP_003005	P	T	PT	benign
rs1802074	NP_003005	R	K	RK	benign
rs1802087	NP_004519	G	C	GC	possibly damaging
rs1802088	NP_004519	P	S	PS	possibly damaging
rs1802089	NP_003954	A	S	AS	benign
rs1802117	NP_005434	Q	R	QR	possibly damaging
rs1802118	NP_003208	L	P	LP	possibly damaging
rs1802130	NP_002796	M	K	MK	probably damaging
rs1802131	NP_002796	D	V	DV	probably damaging
rs1802164	NP_004598	E	G	EG	possibly damaging
rs1802188	NP_000425	V	L	VL	benign
rs1802191	NP_150632	H	Y	HY	possibly damaging
rs1802198	NP_005678	R	Q	RQ	possibly damaging
rs1802201	NP_066565	D	N	DN	possibly damaging
rs1802207	NP_003631	L	M	LM	benign
rs1802222	NP_004533	L	F	LF	benign
rs1802224	NP_004995	S	P	SP	benign
rs1802228	NP_002916	A	V	AV	benign
rs1802237	NP_004068	Q	E	QE	benign
rs1802238	NP_002483	K	N	KN	benign
rs1802241	NP_852131	V	L	VL	benign
rs1802241	NP_852132	V	L	VL	benign
rs1802241	NP_852134	V	L	VL	benign
rs1802241	NP_852133	V	L	VL	benign
rs1802247	NP_004863	A	T	AT	benign
rs1802257	NP_004716	D	N	DN	benign
rs1802258	NP_002609	G	C	GC	probably damaging
rs1802280	NP_005877	F	V	FV	probably damaging
rs1802285	NP_009034	A	S	AS	possibly damaging
rs1802288	NP_003261	A	T	AT	benign

rs1802323	NP_004262	M	V	MV	benign
rs1802327	NP_036211	N	K	NK	possibly damaging
rs1802338	NP_004576	G	E	GE	possibly damaging
rs1802340	NP_004576	A	T	AT	benign
rs1802356	NP_536351	A	S	AS	benign
rs1802356	NP_000507	A	S	AS	benign
rs1802357	NP_536351	S	I	SI	probably damaging
rs1802357	NP_000507	S	I	SI	probably damaging
rs1802363	NP_006351	Q	R	QR	benign
rs1802370	NP_005081	F	S	FS	possibly damaging
rs1802375	NP_003091	Q	R	QR	possibly damaging
rs1802376	NP_683758	D	N	DN	possibly damaging
rs1802376	NP_690039	D	N	DN	possibly damaging
rs1802376	NP_003090	D	N	DN	possibly damaging
rs1802377	NP_003785	S	F	SF	possibly damaging
rs1802381	NP_001528	N	H	NH	benign
rs1802384	NP_001528	A	V	AV	benign
rs1802394	NP_005768	K	T	KT	benign
rs1802395	NP_005768	C	S	CS	probably damaging
rs1802399	NP_005591	D	E	DE	benign
rs1802400	NP_006398	E	K	EK	benign
rs1802414	NP_003755	E	Q	EQ	benign
rs1802417	NP_075381	E	G	EG	possibly damaging
rs1802417	NP_115784	E	G	EG	possibly damaging
rs1802419	NP_003681	I	N	IN	possibly damaging
rs1802421	NP_945320	Q	H	QH	possibly damaging
rs1802421	NP_945321	Q	H	QH	probably damaging
rs1802421	NP_001121	Q	H	QH	probably damaging
rs1802422	NP_005761	L	F	LF	benign
rs1802427	NP_001563	D	N	DN	benign
rs1802427	NP_004020	D	N	DN	benign
rs1802427	NP_004022	D	N	DN	benign
rs1802433	NP_057250	S	F	SF	benign
rs1802446	NP_009165	S	Y	SY	possibly damaging
rs1802452	NP_004227	T	S	TS	benign
rs1802461	NP_036569	S	C	SC	benign
rs1802462	NP_006347	P	T	PT	probably damaging
rs1802463	NP_006347	P	S	PS	probably damaging
rs1802465	NP_006347	W	C	WC	probably damaging
rs1802470	NP_005794	D	Y	DY	probably damaging
rs1802474	NP_005490	C	F	CF	probably damaging
rs1802480	NP_003787	A	V	AV	benign
rs1802480	NP_604431	A	V	AV	benign
rs1802483	NP_005768	P	S	PS	possibly damaging
rs1802485	NP_009049	D	H	DH	possibly damaging
rs1802492	NP_006320	D	Y	DY	probably damaging

rs1802495	NP_003820	R	H	RH	benign
rs1802496	NP_006386	H	N	HN	possibly damaging
rs1802498	NP_604389	Q	E	QE	benign
rs1802498	NP_003712	Q	E	QE	benign
rs1802500	NP_004210	V	F	VF	possibly damaging
rs1802504	NP_877495	E	D	ED	benign
rs1802504	NP_068779	E	D	ED	benign
rs1802510	NP_005539	P	L	PL	probably damaging
rs1802516	NP_291024	K	N	KN	possibly damaging
rs1802521	NP_004999	T	N	TN	benign
rs1802538	NP_005246	Y	C	YC	probably damaging
rs1802545	NP_003391	P	S	PS	probably damaging
rs1802548	NP_851998	N	D	ND	benign
rs1802548	NP_002156	N	D	ND	benign
rs1802557	NP_004784	F	L	FL	possibly damaging
rs1802559	XP_064265	E	G	EG	probably damaging
rs1802578	NP_945320	A	E	AE	benign
rs1802578	NP_945321	A	E	AE	benign
rs1802578	NP_001121	A	E	AE	benign
rs1802581	NP_055439	N	S	NS	benign
rs1802582	NP_055439	I	T	IT	possibly damaging
rs1802585	NP_005525	D	E	DE	benign
rs1802592	NP_002083	N	D	ND	benign
rs1802596	NP_001972	D	Y	DY	probably damaging
rs1802600	NP_003125	S	I	SI	benign
rs1802601	NP_003125	P	S	PS	probably damaging
rs1802606	NP_006160	Q	K	QK	benign
rs1802607	NP_004583	P	L	PL	probably damaging
rs1802611	NP_006793	A	S	AS	benign
rs1802617	NP_003429	Q	H	QH	benign
rs1802620	NP_005561	H	Y	HY	benign
rs1802621	NP_005561	Y	C	YC	probably damaging
rs1802622	NP_001680	G	E	GE	probably damaging
rs1802632	NP_003348	T	A	TA	possibly damaging
rs1802634	NP_003348	R	G	RG	possibly damaging
rs1802641	NP_036350	S	W	SW	possibly damaging
rs1802641	NP_004507	S	W	SW	possibly damaging
rs1802641	NP_703194	S	W	SW	possibly damaging
rs1802643	NP_006807	L	R	LR	possibly damaging
rs1802655	NP_009140	V	A	VA	benign
rs1802658	NP_004438	A	S	AS	benign
rs1802664	NP_573566	I	M	IM	benign
rs1802668	NP_004078	K	R	KR	benign
rs1802670	NP_006275	L	F	LF	benign
rs1802671	NP_004483	E	D	ED	benign
rs1802683	NP_000526	G	A	GA	benign



rs1802692	NP_000981	V	A	VA	possibly damaging
rs1802701	NP_000996	L	I	LI	benign
rs1802705	XP_061427	M	I	MI	possibly damaging
rs1802706	NP_004588	S	G	SG	benign
rs1802709	NP_001317	L	P	LP	possibly damaging
rs1802713	XP_056681	R	K	RK	benign
rs1802720	NP_001639	Y	H	YH	benign
rs1802724	NP_001304	E	Q	EQ	possibly damaging
rs1802728	NP_005633	K	N	KN	benign
rs1802730	NP_001087	G	E	GE	probably damaging
rs1802730	NP_942127	G	E	GE	probably damaging
rs1802733	NP_387506	P	T	PT	probably damaging
rs1802736	NP_387506	L	F	LF	benign
rs1802737	NP_387506	L	F	LF	benign
rs1802743	NP_002336	G	C	GC	probably damaging
rs1802759	NP_005474	V	M	VM	benign
rs1802771	NP_002434	I	T	IT	possibly damaging
rs1802774	NP_002434	D	A	DA	probably damaging
rs1802776	NP_005750	L	F	LF	benign
rs1802779	NP_004362	K	N	KN	possibly damaging
rs1802787	NP_001987	C	S	CS	probably damaging
rs1802787	NP_006476	C	S	CS	probably damaging
rs1802787	NP_006477	C	S	CS	probably damaging
rs1802787	NP_006478	C	S	CS	probably damaging
rs1802794	NP_066957	Y	C	YC	benign
rs1802799	NP_002799	T	P	TP	possibly damaging
rs1802800	NP_002879	V	L	VL	benign
rs1802800	NP_996846	V	L	VL	benign
rs1802805	NP_068710	A	S	AS	benign
rs1802805	NP_005962	A	S	AS	benign
rs1802821	NP_001521	T	A	TA	possibly damaging
rs1802823	NP_006829	K	R	KR	benign
rs1802838	NP_001939	G	V	GV	probably damaging
rs1802839	NP_938405	P	S	PS	possibly damaging
rs1802850	NP_002884	L	S	LS	benign
rs1802851	NP_002884	T	P	TP	probably damaging
rs1802866	NP_848701	M	I	MI	benign
rs1802866	NP_002710	M	I	MI	benign
rs1802866	NP_848703	M	I	MI	benign
rs1802866	NP_848702	M	I	MI	possibly damaging
rs1802878	NP_036475	F	I	FI	probably damaging
rs1802878	NP_892022	F	I	FI	probably damaging
rs1802880	NP_002302	D	V	DV	probably damaging
rs1802880	NP_039269	D	V	DV	probably damaging
rs1802898	NP_003472	P	S	PS	possibly damaging
rs1802902	NP_004573	E	K	EK	benign

rs1802903	NP_004573	G	V	GV	probably damaging
rs1802905	NP_000268	K	N	KN	probably damaging
rs1802915	NP_006391	K	N	KN	benign
rs1802916	NP_006391	L	M	LM	benign
rs1802925	NP_001334	A	V	AV	benign
rs1802929	NP_001055	A	S	AS	benign
rs1802932	NP_665876	I	V	IV	benign
rs1802936	NP_008993	V	A	VA	possibly damaging
rs1802943	NP_005919	V	L	VL	benign
rs1802952	NP_004303	G	V	GV	probably damaging
rs1802959	NP_000286	A	T	AT	probably damaging
rs1802962	NP_000286	S	C	SC	benign
rs1802965	NP_000005	F	L	FL	probably damaging
rs1802969	NP_002659	A	S	AS	benign
rs1802975	NP_002894	W	C	WC	probably damaging
rs1803012	NP_002259	E	G	EG	probably damaging
rs1803013	NP_000995	L	F	LF	possibly damaging
rs1803015	NP_002806	E	G	EG	probably damaging
rs1803018	NP_002804	G	V	GV	probably damaging
rs1803020	NP_003695	R	K	RK	benign
rs1803025	NP_853551	D	E	DE	benign
rs1803027	NP_001604	T	A	TA	benign
rs1803028	NP_001604	T	S	TS	benign
rs1803030	NP_001093	A	S	AS	benign
rs1803048	NP_001650	I	V	IV	benign
rs1803054	NP_000680	A	D	AD	possibly damaging
rs1803064	NP_690601	R	L	RL	possibly damaging
rs1803065	NP_690601	D	Y	DY	possibly damaging
rs1803082	NP_000362	T	I	TI	possibly damaging
rs1803083	NP_000362	P	S	PS	possibly damaging
rs1803084	NP_000362	H	Y	HY	probably damaging
rs1803086	NP_000026	A	T	AT	possibly damaging
rs1803088	NP_000026	L	V	LV	benign
rs1803089	NP_001634	Y	F	YF	benign
rs1803091	NP_001634	T	K	TK	possibly damaging
rs1803101	NP_000471	Q	K	QK	possibly damaging
rs1803116	NP_003211	A	V	AV	benign
rs1803118	NP_001632	A	V	AV	benign
rs1803118	NP_542379	A	V	AV	benign
rs1803118	NP_542380	A	V	AV	benign
rs1803120	NP_001632	P	S	PS	probably damaging
rs1803120	NP_542379	P	S	PS	probably damaging
rs1803120	NP_542380	P	S	PS	probably damaging
rs1803121	NP_001633	A	G	AG	possibly damaging
rs1803122	NP_000033	I	T	IT	benign
rs1803124	NP_000033	L	M	LM	benign

rs1803125	NP_003141	Q	K	QK	possibly damaging
rs1803125	NP_998827	Q	K	QK	possibly damaging
rs1803125	NP_644805	Q	K	QK	possibly damaging
rs1803127	NP_004467	Y	S	YS	possibly damaging
rs1803128	NP_004467	E	D	ED	benign
rs1803150	NP_001653	L	W	LW	probably damaging
rs1803155	NP_001077	I	V	IV	benign
rs1803163	NP_001664	P	H	PH	probably damaging
rs1803163	NP_597680	P	H	PH	probably damaging
rs1803163	NP_899199	P	H	PH	probably damaging
rs1803165	NP_001340	L	F	LF	benign
rs1803169	NP_002071	T	I	TI	possibly damaging
rs1803177	NP_005167	M	K	MK	probably damaging
rs1803181	NP_001676	P	H	PH	probably damaging
rs1803183	NP_005024	I	V	IV	benign
rs1803195	NP_000509	G	V	GV	benign
rs1803198	NP_000395	T	K	TK	benign
rs1803199	NP_000395	H	Y	HY	possibly damaging
rs1803203	NP_940993	G	V	GV	possibly damaging
rs1803203	NP_940991	G	V	GV	possibly damaging
rs1803203	NP_940992	G	V	GV	possibly damaging
rs1803204	NP_001721	T	K	TK	benign
rs1803212	NP_000053	T	S	TS	benign
rs1803224	NP_000055	M	I	MI	benign
rs1803225	NP_000055	H	N	HN	possibly damaging
rs1803245	NP_062427	D	V	DV	possibly damaging
rs1803250	NP_680090	S	G	SG	benign
rs1803250	NP_680091	S	G	SG	benign
rs1803250	NP_680092	S	G	SG	benign
rs1803250	NP_680093	S	G	SG	benign
rs1803250	NP_001899	S	G	SG	benign
rs1803261	NP_976076	K	N	KN	benign
rs1803267	NP_036277	A	D	AD	possibly damaging
rs1803268	NP_006163	R	Q	RQ	possibly damaging
rs1803271	NP_001272	V	D	VD	probably damaging
rs1803274	NP_000046	A	T	AT	benign
rs1803284	NP_001814	F	L	FL	probably damaging
rs1803285	NP_001815	V	M	VM	possibly damaging
rs1803289	NP_001822	D	Y	DY	possibly damaging
rs1803289	NP_976084	D	Y	DY	possibly damaging
rs1803291	NP_004062	H	Y	HY	probably damaging
rs1803299	NP_001823	G	V	GV	probably damaging
rs1803306	NP_001701	M	I	MI	benign
rs1803307	NP_003357	R	T	RT	benign
rs1803312	NP_001852	M	V	MV	possibly damaging
rs1803313	NP_001852	V	A	VA	possibly damaging

rs1803314	NP_001852	M	T	MT	probably damaging
rs1803318	NP_004246	L	H	LH	benign
rs1803323	NP_877962	P	A	PA	benign
rs1803324	NP_877962	E	D	ED	benign
rs1803328	NP_004069	C	F	CF	probably damaging
rs1803342	NP_598010	L	P	LP	benign
rs1803342	NP_598012	L	P	LP	possibly damaging
rs1803342	NP_598013	L	P	LP	possibly damaging
rs1803342	NP_598011	L	P	LP	probably damaging
rs1803344	NP_598011	E	Q	EQ	benign
rs1803344	NP_598012	E	Q	EQ	benign
rs1803344	NP_598010	E	Q	EQ	benign
rs1803358	NP_006826	F	V	FV	possibly damaging
rs1803359	NP_006826	C	R	CR	probably damaging
rs1803361	NP_000775	V	A	VA	benign
rs1803366	NP_683725	R	K	RK	possibly damaging
rs1803366	NP_001905	R	K	RK	possibly damaging
rs1803369	NP_000756	I	M	IM	benign
rs1803369	NP_059488	M	I	MI	benign
rs1803375	NP_002790	T	I	TI	possibly damaging
rs1803378	NP_002790	M	I	MI	probably damaging
rs1803381	NP_002790	G	W	GW	probably damaging
rs1803385	NP_057356	S	I	SI	possibly damaging
rs1803386	NP_067675	P	S	PS	benign
rs1803403	NP_002766	G	C	GC	probably damaging
rs1803405	NP_003303	E	G	EG	probably damaging
rs1803411	NP_002852	D	Y	DY	probably damaging
rs1803415	NP_848694	C	F	CF	benign
rs1803415	NP_848693	C	F	CF	benign
rs1803432	NP_002798	K	M	KM	benign
rs1803433	NP_002798	G	D	GD	benign
rs1803438	NP_004059	I	F	IF	possibly damaging
rs1803444	NP_005612	K	N	KN	benign
rs1803445	NP_002615	C	S	CS	benign
rs1803445	NP_665903	C	S	CS	benign
rs1803450	NP_005597	P	Q	PQ	possibly damaging
rs1803464	NP_006635	P	H	PH	possibly damaging
rs1803465	NP_006635	G	V	GV	benign
rs1803480	NP_001335	S	F	SF	probably damaging
rs1803481	NP_065438	I	T	IT	possibly damaging
rs1803517	NP_006277	S	L	SL	possibly damaging
rs1803518	NP_963849	G	D	GD	possibly damaging
rs1803518	NP_001441	G	D	GD	possibly damaging
rs1803521	NP_001378	G	V	GV	benign
rs1803524	NP_005746	A	V	AV	benign
rs1803542	NP_000114	F	L	FL	benign

rs1803557	NP_005230	E	V	EV	probably damaging
rs1803563	NP_001434	V	L	VL	benign
rs1803566	NP_000029	E	D	ED	benign
rs1803569	NP_000794	C	F	CF	probably damaging
rs1803571	NP_003245	I	V	IV	benign
rs1803573	NP_004102	E	D	ED	benign
rs1803578	NP_000137	H	Y	HY	possibly damaging
rs1803580	NP_000137	L	F	LF	benign
rs1803595	NP_004468	R	K	RK	benign
rs1803597	NP_002018	Y	N	YN	probably damaging
rs1803614	NP_002036	A	S	AS	benign
rs1803619	NP_002037	D	Y	DY	possibly damaging
rs1803625	NP_002037	T	I	TI	benign
rs1803630	NP_002044	L	S	LS	possibly damaging
rs1803633	NP_004478	Q	R	QR	benign
rs1803636	NP_002052	A	E	AE	benign
rs1803650	NP_002769	K	N	KN	possibly damaging
rs1803672	NP_077318	E	Q	EQ	benign
rs1803681	NP_000837	Q	H	QH	benign
rs1803681	NP_665683	Q	H	QH	benign
rs1803682	NP_000837	K	N	KN	benign
rs1803687	NP_000840	K	N	KN	possibly damaging
rs1803691	NP_004475	M	I	MI	benign
rs1803692	NP_004475	V	L	VL	benign
rs1803693	NP_001061	T	I	TI	probably damaging
rs1803701	NP_004893	V	A	VA	benign
rs1803701	NP_909132	V	A	VA	benign
rs1803701	NP_909129	V	A	VA	benign
rs1803711	NP_006394	H	Y	HY	possibly damaging
rs1803737	NP_001672	V	A	VA	possibly damaging
rs1803737	NP_733765	V	A	VA	possibly damaging
rs1803745	NP_006830	R	I	RI	probably damaging
rs1803751	NP_005134	G	R	GR	probably damaging
rs1803752	NP_006801	H	L	HL	probably damaging
rs1803758	NP_002757	M	I	MI	probably damaging
rs1803775	XP_034640	S	I	SI	possibly damaging
rs1803781	NP_006114	D	N	DN	benign
rs1803781	NP_000193	D	N	DN	benign
rs1803782	NP_006114	S	R	SR	possibly damaging
rs1803782	NP_000193	S	R	SR	possibly damaging
rs1803783	NP_000193	P	H	PH	probably damaging
rs1803785	NP_000193	F	Y	FY	benign
rs1803791	NP_998811	G	V	GV	probably damaging
rs1803830	NP_788955	S	N	SN	benign
rs1803830	NP_006254	S	N	SN	possibly damaging
rs1803838	NP_644671	P	L	PL	possibly damaging

rs1803843	NP_005183	S	F	SF	benign
rs1803854	NP_739580	N	I	NI	probably damaging
rs1803855	NP_055481	G	C	GC	benign
rs1803856	NP_055481	E	K	EK	benign
rs1803864	NP_005095	V	A	VA	possibly damaging
rs1803878	NP_003394	D	E	DE	benign
rs1803909	NP_004030	Y	H	YH	possibly damaging
rs1803916	NP_000886	T	S	TS	benign
rs1803922	NP_000099	N	T	NT	benign
rs1803928	NP_002330	Q	K	QK	benign
rs1803936	NP_002345	L	S	LS	benign
rs1803937	NP_001544	A	V	AV	benign
rs1803939	NP_065390	F	S	FS	possibly damaging
rs1803941	NP_067544	V	L	VL	benign
rs1803941	NP_000823	V	L	VL	benign
rs1803941	NP_015566	V	L	VL	benign
rs1803943	NP_002719	K	R	KR	benign
rs1803947	NP_001738	K	I	KI	possibly damaging
rs1803950	NP_005947	P	L	PL	benign
rs1803951	NP_005947	G	C	GC	probably damaging
rs1803966	NP_000891	R	G	RG	possibly damaging
rs1803971	NP_004346	P	S	PS	possibly damaging
rs1803975	NP_002405	L	V	LV	benign
rs1803976	NP_002406	N	S	NS	possibly damaging
rs1803986	NP_000231	M	I	MI	probably damaging
rs1803990	NP_002794	S	N	SN	benign
rs1803998	NP_569157	S	R	SR	possibly damaging
rs1803998	NP_005953	S	R	SR	possibly damaging
rs1804000	NP_066299	Y	H	YH	probably damaging
rs1804000	NP_524148	Y	H	YH	probably damaging
rs1804000	NP_524147	Y	H	YH	probably damaging
rs1804002	NP_000704	K	T	KT	benign
rs1804006	NP_000092	T	A	TA	benign
rs1804007	NP_000092	F	S	FS	probably damaging
rs1804014	NP_005800	A	S	AS	benign
rs1804014	NP_859428	A	S	AS	benign
rs1804020	NP_055312	V	M	VM	benign
rs1804021	NP_002510	V	I	VI	benign
rs1804027	NP_004501	M	T	MT	benign
rs1804027	NP_536349	M	T	MT	benign
rs1804027	NP_004500	M	T	MT	benign
rs1804030	NP_000265	R	C	RC	probably damaging
rs1804034	NP_996800	D	V	DV	possibly damaging
rs1804037	NP_996800	G	S	GS	possibly damaging
rs1804040	NP_001771	G	R	GR	probably damaging
rs1804041	NP_001771	I	T	IT	possibly damaging

rs1804042	NP_056937	Q	R	QR	benign
rs1804046	NP_004913	Q	E	QE	possibly damaging
rs1804046	NP_940999	Q	E	QE	possibly damaging
rs1804054	NP_004896	P	T	PT	possibly damaging
rs1804059	NP_003730	M	I	MI	probably damaging
rs1804069	NP_005207	S	Y	SY	benign
rs1804079	NP_055555	R	G	RG	probably damaging
rs1804086	NP_055579	T	A	TA	benign
rs1804099	NP_877577	A	V	AV	benign
rs1804106	NP_005733	R	L	RL	probably damaging
rs1804109	NP_009005	R	K	RK	benign
rs1804110	XP_291111	A	D	AD	possibly damaging
rs1804113	NP_002453	V	I	VI	benign
rs1804115	NP_955369	V	A	VA	benign
rs1804117	NP_000362	K	E	KE	possibly damaging
rs1804118	NP_000362	T	N	TN	benign
rs1804119	NP_620121	D	E	DE	benign
rs1804119	NP_620176	D	E	DE	benign
rs1804119	NP_620177	D	E	DE	benign
rs1804119	NP_000910	D	E	DE	benign
rs1804145	NP_002606	P	H	PH	benign
rs1804148	NP_002606	T	I	TI	benign
rs1804160	NP_002582	V	I	VI	benign
rs1804161	NP_006218	F	L	FL	benign
rs1804161	NP_872617	F	L	FL	probably damaging
rs1804173	NP_006215	E	K	EK	benign
rs1804176	NP_000287	G	R	GR	probably damaging
rs1804180	NP_002656	R	K	RK	benign
rs1804181	NP_000292	K	I	KI	probably damaging
rs1804189	NP_008859	A	V	AV	benign
rs1804194	NP_001673	S	N	SN	benign
rs1804200	NP_006234	Y	H	YH	probably damaging
rs1804202	NP_006519	V	A	VA	benign
rs1804206	XP_496612	K	E	KE	benign
rs1804209	XP_496612	A	V	AV	benign
rs1804211	NP_005579	T	M	TM	benign
rs1804212	NP_000299	H	Q	HQ	possibly damaging
rs1804215	NP_937878	R	L	RL	probably damaging
rs1804219	NP_005013	D	Y	DY	probably damaging
rs1804235	NP_002786	L	M	LM	benign
rs1804236	NP_002785	L	F	LF	benign
rs1804237	NP_002785	G	V	GV	probably damaging
rs1804241	NP_002787	M	I	MI	benign
rs1804254	NP_002618	Q	K	QK	benign
rs1804263	NP_006285	L	P	LP	possibly damaging
rs1804267	NP_061485	K	R	KR	benign

rs1804267	NP_942126	K	R	KR	benign
rs1804270	NP_002872	R	C	RC	probably damaging
rs1804275	NP_000291	D	Y	DY	probably damaging
rs1804281	NP_002892	D	Y	DY	probably damaging
rs1804283	NP_002895	G	V	GV	probably damaging
rs1804292	NP_786886	K	N	KN	probably damaging
rs1804295	NP_000966	L	S	LS	probably damaging
rs1804296	NP_000966	Y	C	YC	benign
rs1804297	NP_000966	F	I	FI	probably damaging
rs1804298	NP_000966	E	G	EG	probably damaging
rs1804301	NP_000966	A	V	AV	possibly damaging
rs1804302	NP_000966	L	P	LP	probably damaging
rs1804303	NP_000966	I	T	IT	possibly damaging
rs1804308	NP_000980	M	T	MT	benign
rs1804313	NP_000980	K	M	KM	probably damaging
rs1804314	NP_000980	S	T	ST	benign
rs1804323	XP_171447	D	E	DE	benign
rs1804324	NP_001617	Y	N	YN	probably damaging
rs1804325	NP_000970	Q	L	QL	possibly damaging
rs1804326	NP_000970	R	H	RH	benign
rs1804330	NP_000977	Y	H	YH	probably damaging
rs1804331	NP_000977	A	D	AD	probably damaging
rs1804336	NP_000989	K	E	KE	possibly damaging
rs1804342	NP_000989	K	N	KN	possibly damaging
rs1804357	XP_377716	V	A	VA	benign
rs1804358	XP_377716	L	S	LS	probably damaging
rs1804360	NP_001012	L	P	LP	probably damaging
rs1804368	NP_001014	D	G	DG	probably damaging
rs1804387	NP_780294	L	F	LF	benign
rs1804394	NP_000998	I	T	IT	possibly damaging
rs1804401	NP_000992	L	F	LF	possibly damaging
rs1804427	NP_000933	V	A	VA	possibly damaging
rs1804450	NP_000445	T	I	TI	benign
rs1804460	NP_002961	L	F	LF	benign
rs1804461	NP_002434	D	G	DG	possibly damaging
rs1804464	NP_002434	V	L	VL	benign
rs1804465	NP_002434	V	F	VF	benign
rs1804466	NP_002434	C	R	CR	probably damaging
rs1804468	NP_002434	Q	R	QR	benign
rs1804469	NP_002434	E	G	EG	probably damaging
rs1804471	NP_003119	D	Y	DY	probably damaging
rs1804471	NP_842565	D	Y	DY	probably damaging
rs1804473	NP_004453	L	P	LP	possibly damaging
rs1804475	XP_497482	P	L	PL	possibly damaging
rs1804486	NP_938075	K	M	KM	possibly damaging
rs1804486	NP_938074	K	M	KM	possibly damaging



rs1804486	NP_001527	K	M	KM	possibly damaging
rs1804488	NP_058132	P	S	PS	benign
rs1804488	NP_002525	P	S	PS	benign
rs1804492	NP_004606	T	M	TM	benign
rs1804495	NP_000345	L	F	LF	benign
rs1804498	NP_001054	W	C	WC	probably damaging
rs1804499	NP_001505	P	S	PS	probably damaging
rs1804504	NP_000618	C	F	CF	probably damaging
rs1804504	NP_996826	C	F	CF	probably damaging
rs1804508	NP_000011	I	N	IN	probably damaging
rs1804509	NP_000011	L	F	LF	benign
rs1804513	NP_689508	A	S	AS	benign
rs1804529	NP_005068	A	V	AV	possibly damaging
rs1804530	NP_005068	D	Y	DY	probably damaging
rs1804532	NP_001056	P	T	PT	benign
rs1804534	NP_002333	Q	R	QR	benign
rs1804535	NP_005740	A	S	AS	benign
rs1804538	NP_001058	P	S	PS	possibly damaging
rs1804539	NP_001058	S	F	SF	possibly damaging
rs1804542	XP_371261	V	M	VM	benign
rs1804546	NP_003282	K	R	KR	benign
rs1804548	NP_003270	M	I	MI	probably damaging
rs1804558	NP_998839	K	N	KN	probably damaging
rs1804558	NP_003280	K	N	KN	probably damaging
rs1804563	NP_002761	S	F	SF	probably damaging
rs1804572	NP_036457	K	Q	KQ	possibly damaging
rs1804579	NP_003063	V	E	VE	possibly damaging
rs1804580	NP_003063	D	H	DH	possibly damaging
rs1804584	NP_003737	K	N	KN	benign
rs1804586	NP_543012	H	Y	HY	benign
rs1804598	NP_006803	R	W	RW	probably damaging
rs1804600	NP_036380	P	A	PA	possibly damaging
rs1804604	NP_853549	Q	R	QR	benign
rs1804604	NP_874386	Q	R	QR	benign
rs1804604	NP_874387	Q	R	QR	benign
rs1804604	NP_874389	Q	R	QR	benign
rs1804604	NP_874390	Q	R	QR	benign
rs1804604	NP_874392	Q	R	QR	benign
rs1804604	NP_874393	Q	R	QR	benign
rs1804604	NP_877571	Q	R	QR	benign
rs1804604	NP_877573	Q	R	QR	benign
rs1804604	NP_898830	Q	R	QR	benign
rs1804604	NP_898831	Q	R	QR	benign
rs1804604	NP_898883	Q	R	QR	benign
rs1804604	NP_878273	Q	R	QR	benign
rs1804604	NP_874388	Q	R	QR	possibly damaging

rs1804604	NP_877572	Q	R	QR	possibly damaging
rs1804604	NP_898829	Q	R	QR	possibly damaging
rs1804604	NP_878270	Q	R	QR	possibly damaging
rs1804609	NP_005906	P	T	PT	probably damaging
rs1804613	NP_005956	W	R	WR	probably damaging
rs1804613	NP_444254	W	R	WR	probably damaging
rs1804613	NP_444255	W	R	WR	probably damaging
rs1804613	NP_444256	W	R	WR	probably damaging
rs1804613	NP_444260	W	R	WR	probably damaging
rs1804613	NP_444259	W	R	WR	probably damaging
rs1804613	NP_444253	W	R	WR	probably damaging
rs1804616	NP_004810	V	L	VL	benign
rs1804618	NP_892116	I	K	IK	probably damaging
rs1804625	NP_001670	S	Y	SY	possibly damaging
rs1804642	NP_005635	M	I	MI	probably damaging
rs1804645	NP_003734	P	S	PS	probably damaging
rs1804645	NP_671756	P	S	PS	probably damaging
rs1804645	NP_671766	P	S	PS	probably damaging
rs1804647	NP_005891	K	E	KE	possibly damaging
rs1804650	NP_116758	E	K	EK	benign
rs1804650	NP_001221	E	K	EK	benign
rs1804650	NP_116759	E	K	EK	benign
rs1804650	NP_116756	E	K	EK	benign
rs1804651	NP_036400	F	V	FV	possibly damaging
rs1804652	NP_036400	G	A	GA	possibly damaging
rs1804671	NP_036515	S	P	SP	probably damaging
rs1804675	NP_005650	G	W	GW	benign
rs1804677	NP_997005	P	S	PS	possibly damaging
rs1804694	NP_006828	A	S	AS	benign
rs1804696	NP_004416	Q	H	QH	benign
rs1804696	NP_073155	Q	H	QH	benign
rs1804702	NP_689452	S	Y	SY	probably damaging
rs1804709	NP_000353	D	Y	DY	probably damaging
rs1804711	NP_009214	R	Q	RQ	benign
rs1804715	NP_006109	S	P	SP	benign
rs1804718	NP_005188	D	E	DE	benign
rs1804722	NP_694858	S	F	SF	benign
rs1804728	NP_004219	V	F	VF	possibly damaging
rs1804728	NP_059431	V	F	VF	possibly damaging
rs1804729	NP_006825	K	N	KN	possibly damaging
rs1804731	NP_004146	N	D	ND	possibly damaging
rs1804732	NP_976036	H	Y	HY	possibly damaging
rs1804732	NP_976037	H	Y	HY	possibly damaging
rs1804732	NP_002885	H	Y	HY	possibly damaging
rs1804740	NP_002262	Y	C	YC	probably damaging
rs1804741	NP_002262	T	I	TI	possibly damaging

rs1804745	NP_006822	R	M	RM	probably damaging
rs1804747	NP_005209	H	R	HR	benign
rs1804749	NP_002862	A	T	AT	benign
rs1804755	NP_085911	P	S	PS	benign
rs1804758	NP_001175	C	Y	CY	probably damaging
rs1804759	NP_003037	M	L	ML	benign
rs1804762	NP_006566	N	K	NK	probably damaging
rs1804762	NP_942089	N	K	NK	probably damaging
rs1804770	NP_066925	C	F	CF	probably damaging
rs1804776	NP_002434	L	S	LS	possibly damaging
rs1804778	NP_002434	I	M	IM	benign
rs1804780	NP_002434	W	R	WR	probably damaging
rs1804783	NP_000059	G	V	GV	probably damaging
rs1804785	NP_001089	A	S	AS	benign
rs1804795	NP_006283	R	G	RG	probably damaging
rs1804797	NP_002405	N	T	NT	benign
rs1804798	NP_006375	D	G	DG	possibly damaging
rs1804806	NP_003643	F	L	FL	possibly damaging
rs1804807	NP_003643	S	C	SC	benign
rs1804811	NP_751949	P	H	PH	probably damaging
rs1804811	NP_001616	P	H	PH	probably damaging
rs1804811	NP_037543	P	H	PH	probably damaging
rs1804813	NP_001616	A	V	AV	benign
rs1804813	NP_037543	A	V	AV	benign
rs1804823	NP_004415	S	T	ST	benign
rs1804833	NP_002309	V	L	VL	benign
rs1804853	NP_002537	L	F	LF	benign
rs1804860	NP_005921	P	S	PS	possibly damaging
rs1804860	NP_976229	P	S	PS	possibly damaging
rs1804860	NP_976232	P	S	PS	possibly damaging
rs1804860	NP_976230	P	S	PS	probably damaging
rs1804860	NP_976231	P	S	PS	probably damaging
rs1804865	NP_004228	V	F	VF	benign
rs1804867	NP_005861	P	L	PL	probably damaging
rs1804868	NP_005861	P	T	PT	possibly damaging
rs1804886	NP_000365	F	L	FL	possibly damaging
rs1804887	NP_004222	I	T	IT	possibly damaging
rs1804889	NP_004222	A	P	AP	benign
rs1804899	NP_001176	D	E	DE	benign
rs1804905	NP_009086	R	T	RT	benign
rs1804913	XP_498351	P	T	PT	possibly damaging
rs1804919	NP_060517	G	V	GV	possibly damaging
rs1804920	NP_060517	E	D	ED	benign
rs1804924	NP_003744	P	S	PS	probably damaging
rs1804928	NP_003747	P	Q	PQ	possibly damaging
rs1804931	NP_002367	G	V	GV	possibly damaging

rs1804932	NP_001295	A	S	AS	benign
rs1804941	NP_998787	V	L	VL	benign
rs1804957	NP_005885	E	D	ED	benign
rs1804963	NP_006586	E	Q	EQ	benign
rs1804965	NP_003255	E	D	ED	benign
rs1804994	NP_056525	R	Q	RQ	benign
rs1805000	NP_795344	L	F	LF	benign
rs1805001	NP_795344	R	Q	RQ	benign
rs1805002	NP_795344	V	I	VI	benign
rs1805005	NP_002377	V	L	VL	possibly damaging
rs1805006	NP_002377	D	E	DE	possibly damaging
rs1805007	NP_002377	R	C	RC	probably damaging
rs1805008	NP_002377	R	W	RW	benign
rs1805009	NP_002377	D	H	DH	probably damaging
rs1805010	NP_000409	I	L	IL	benign
rs1805011	NP_000409	E	A	EA	benign
rs1805012	NP_000409	C	R	CR	benign
rs1805013	NP_000409	S	L	SL	benign
rs1805014	NP_000409	S	P	SP	possibly damaging
rs1805015	NP_000409	S	P	SP	benign
rs1805016	NP_000409	S	A	SA	benign
rs1805017	NP_005075	R	H	RH	benign
rs1805018	NP_005075	I	T	IT	benign
rs1805031	NP_000717	C	F	CF	probably damaging
rs1805034	NP_003830	A	V	AV	benign
rs1805035	NP_000449	G	S	GS	benign
rs1805038	NP_000625	R	C	RC	benign
rs1805040	NP_000887	D	A	DA	benign
rs1805044	NP_000288	R	P	RP	possibly damaging
rs1805048	NP_009054	D	V	DV	benign
rs1805049	NP_009054	R	K	RK	benign
rs1805055	NP_000612	T	N	TN	benign
rs1805057	NP_068703	G	S	GS	benign
rs1805057	NP_068704	G	S	GS	benign
rs1805057	NP_001461	G	S	GS	benign
rs1805057	NP_068705	S	G	SG	benign
rs1805063	NP_076872	R	W	RW	possibly damaging
rs1805064	NP_001034	V	I	VI	benign
rs1805065	NP_001034	T	I	TI	possibly damaging
rs1805066	NP_001034	V	I	VI	benign
rs1805067	NP_001034	G	S	GS	benign
rs1805069	NP_005996	G	S	GS	benign
rs1805070	NP_005996	I	V	IV	benign
rs1805073	NP_037523	A	G	AG	benign
rs1805074	NP_037523	S	P	SP	benign
rs1805075	NP_000867	N	S	NS	benign

rs1805076	NP_002707	G	D	GD	benign
rs1805076	NP_859050	G	D	GD	benign
rs1805077	NP_002569	S	R	SR	benign
rs1805078	NP_000144	R	C	RC	possibly damaging
rs1805081	NP_000262	H	R	HR	benign
rs1805082	NP_000262	I	V	IV	benign
rs1805084	NP_000262	R	Q	RQ	benign
rs1805085	NP_005250	A	T	AT	benign
rs1805086	NP_005250	K	R	KR	benign
rs1805087	NP_000245	D	G	DG	benign
rs1805089	NP_004985	E	K	EK	benign
rs1805090	NP_000020	L	M	LM	benign
rs1805097	NP_003740	G	D	GD	benign
rs1805098	NP_004124	M	I	MI	possibly damaging
rs1805101	NP_006199	K	Q	KQ	benign
rs1805123	NP_742054	K	T	KT	possibly damaging
rs1805123	NP_000229	K	T	KT	possibly damaging
rs1805124	NP_932173	H	R	HR	benign
rs1805124	NP_000326	H	R	HR	possibly damaging
rs1805125	NP_000326	P	L	PL	possibly damaging
rs1805125	NP_932173	P	L	PL	probably damaging
rs1805127	NP_000210	G	S	GS	benign
rs1805128	NP_000210	D	N	DN	benign
rs1805133	NP_848514	D	N	DN	benign
rs1805133	NP_001659	D	N	DN	benign
rs1805138	NP_006199	T	P	TP	benign
rs1805139	NP_006199	Y	H	YH	possibly damaging
rs1805142	NP_004174	E	Q	EQ	benign
rs1805143	NP_004174	P	S	PS	probably damaging
rs1805144	NP_004174	E	D	ED	benign
rs1805147	NP_008846	R	W	RW	possibly damaging
rs1805148	NP_008846	D	Y	DY	probably damaging
rs1805149	NP_002518	G	E	GE	possibly damaging
rs1805152	NP_004061	A	T	AT	benign
rs1805158	NP_000006	R	W	RW	benign
rs1805161	NP_000113	K	R	KR	benign
rs1805162	NP_000113	G	C	GC	possibly damaging
rs1805192	NP_619726	P	A	PA	possibly damaging
rs1805274	NP_066271	A	T	AT	benign
rs1805274	NP_072170	A	T	AT	benign
rs1805274	NP_072171	A	T	AT	benign
rs1805274	NP_072167	P	T	PT	benign
rs1805274	NP_001308	P	T	PT	benign
rs1805274	NP_072166	P	T	PT	possibly damaging
rs1805318	NP_000526	T	S	TS	benign
rs1805321	NP_000526	P	S	PS	benign

rs1805322	NP_000526	T	K	TK	benign
rs1805323	NP_000526	T	K	TK	benign
rs1805324	NP_000526	M	I	MI	benign
rs1805327	NP_596868	E	G	EG	possibly damaging
rs1805328	NP_596868	T	S	TS	benign
rs1805329	NP_002865	A	V	AV	benign
rs1805362	NP_005581	M	V	MV	benign
rs1805362	NP_005582	M	V	MV	possibly damaging
rs1805367	NP_005581	D	G	DG	possibly damaging
rs1805367	NP_005582	D	G	DG	probably damaging
rs1805373	NP_058212	R	Q	RQ	benign
rs1805373	NP_058213	R	Q	RQ	benign
rs1805373	NP_058214	R	Q	RQ	benign
rs1805373	NP_058434	R	Q	RQ	benign
rs1805373	NP_058437	R	Q	RQ	benign
rs1805373	NP_058438	R	Q	RQ	benign
rs1805373	NP_002533	R	Q	RQ	benign
rs1805378	NP_002519	I	T	IT	possibly damaging
rs1805380	NP_066964	L	F	LF	benign
rs1805388	NP_996820	T	I	TI	possibly damaging
rs1805389	NP_996820	A	V	AV	benign
rs1805409	NP_001609	A	T	AT	benign
rs1805749	NP_005801	W	R	WR	possibly damaging
rs1805794	NP_002476	E	Q	EQ	benign
rs1806079	NP_003957	V	L	VL	benign
rs1806229	NP_002523	T	I	TI	benign
rs1806230	NP_002523	T	I	TI	possibly damaging
rs1806245	NP_002523	N	S	NS	benign
rs1806268	NP_002523	G	S	GS	benign
rs1806304	XP_498024	E	D	ED	benign
rs1806552	XP_496849	Q	R	QR	benign
rs1806931	NP_039227	S	F	SF	possibly damaging
rs1807124	NP_003821	M	V	MV	benign
rs1807128	NP_945349	H	R	HR	benign
rs1807129	NP_945349	R	H	RH	possibly damaging
rs1807284	NP_872429	P	L	PL	possibly damaging
rs1807467	NP_057419	A	S	AS	benign
rs1807493	XP_086826	A	G	AG	benign
rs1807747	XP_372543	H	R	HR	benign
rs1808125	XP_496634	H	R	HR	benign
rs1808140	NP_079066	R	W	RW	benign
rs1808998	NP_055626	M	T	MT	benign
rs1809270	XP_498109	L	F	LF	benign
rs1809271	XP_498109	V	D	VD	probably damaging
rs1809279	NP_006301	G	D	GD	possibly damaging
rs1809767	NP_775884	L	F	LF	benign

rs1809810	NP_000753	F	Y	FY	benign
rs1810660	XP_033370	Q	E	QE	benign
rs1810856	NP_037447	R	Q	RQ	benign
rs1810856	NP_954869	R	Q	RQ	benign
rs1810856	NP_954870	R	Q	RQ	benign
rs1810951	XP_372191	R	W	RW	probably damaging
rs1810952	XP_372191	K	M	KM	possibly damaging
rs1810954	XP_372191	T	I	TI	benign
rs1810998	XP_057040	N	D	ND	benign
rs1811082	NP_072170	A	T	AT	benign
rs1811083	NP_072166	L	P	LP	possibly damaging
rs1811097	NP_061978	T	S	TS	benign
rs1811236	NP_061763	V	L	VL	benign
rs1811237	NP_061763	V	L	VL	benign
rs1811238	NP_061763	Q	H	QH	benign
rs1811659	XP_047995	N	Y	NY	probably damaging
rs1812061	NP_005144	L	V	LV	benign
rs1812152	NP_872431	T	S	TS	benign
rs1812240	NP_056518	V	I	VI	benign
rs1812242	XP_372760	M	T	MT	possibly damaging
rs1812749	XP_371306	I	V	IV	benign
rs1812805	XP_293923	V	L	VL	benign
rs1813078	XP_061890	R	S	RS	benign
rs1813078	XP_495891	S	R	SR	benign
rs1813160	NP_005782	E	D	ED	benign
rs1814670	XP_171032	G	R	GR	probably damaging
rs1814793	XP_497046	A	V	AV	benign
rs1815059	NP_060734	E	K	EK	benign
rs1815061	NP_060734	H	Q	HQ	benign
rs1815376	XP_171032	T	R	TR	possibly damaging
rs1815633	XP_497652	R	S	RS	possibly damaging
rs1815811	NP_079067	Q	R	QR	benign
rs1815930	XP_371116	T	A	TA	benign
rs1816416	XP_371145	R	C	RC	probably damaging
rs1816774	XP_291974	D	Y	DY	probably damaging
rs1817206	XP_377159	G	E	GE	possibly damaging
rs1817988	XP_371243	M	T	MT	probably damaging
rs1818989	NP_612143	S	L	SL	possibly damaging
rs1818990	NP_612143	K	R	KR	benign
rs1819505	XP_496691	Q	R	QR	possibly damaging
rs1820128	NP_940859	R	C	RC	probably damaging
rs1820204	NP_127463	F	L	FL	benign
rs1820204	NP_001220	F	L	FL	benign
rs1820965	NP_005671	E	D	ED	benign
rs1823751	XP_496026	N	I	NI	possibly damaging
rs1824152	NP_056507	H	R	HR	benign

rs1824302	NP_002244	R	K	RK	benign
rs1826330	XP_084514	T	A	TA	benign
rs1827225	XP_497613	I	V	IV	benign
rs1827293	NP_115640	Y	C	YC	probably damaging
rs1827786	XP_496691	A	T	AT	benign
rs1828032	XP_496692	H	Q	HQ	benign
rs1829951	XP_208060	F	L	FL	possibly damaging
rs1830035	NP_699194	Y	H	YH	benign
rs1830036	NP_699194	C	S	CS	benign
rs1830080	NP_066971	G	E	GE	benign
rs1831061	XP_092019	R	K	RK	benign
rs1831240	NP_443173	I	V	IV	benign
rs1831370	XP_071151	W	R	WR	benign
rs1831377	XP_115100	T	A	TA	benign
rs1832269	NP_000690	R	G	RG	probably damaging
rs1832723	XP_498326	N	K	NK	benign
rs1832723	XP_498328	N	K	NK	benign
rs1832835	XP_498328	C	Y	CY	benign
rs1833363	XP_496146	A	V	AV	benign
rs1833785	NP_149121	R	S	RS	benign
rs1834026	NP_036492	F	S	FS	possibly damaging
rs1834697	NP_006857	H	L	HL	probably damaging
rs1834698	NP_006857	H	N	HN	benign
rs1835183	XP_372548	G	E	GE	possibly damaging
rs1835996	XP_047554	C	Y	CY	probably damaging
rs1835996	XP_047550	C	Y	CY	probably damaging
rs1835997	XP_047554	C	Y	CY	possibly damaging
rs1835997	XP_047550	Y	C	YC	possibly damaging
rs1836270	XP_208361	I	V	IV	benign
rs1837592	XP_376869	V	M	VM	benign
rs1837949	XP_370560	I	T	IT	possibly damaging
rs1839604	XP_496859	V	L	VL	benign
rs1840178	XP_372370	M	T	MT	benign
rs1841958	NP_038459	I	S	IS	possibly damaging
rs1842691	XP_372391	P	S	PS	benign
rs1842696	XP_372390	V	M	VM	benign
rs1844340	XP_498977	L	V	LV	benign
rs1845444	NP_997222	L	V	LV	benign
rs1846149	XP_498818	L	P	LP	probably damaging
rs1846852	NP_115640	M	I	MI	benign
rs1847102	XP_372559	S	A	SA	benign
rs1847501	XP_498108	T	K	TK	possibly damaging
rs1847632	XP_089863	T	M	TM	possibly damaging
rs1849365	XP_496406	F	L	FL	benign
rs1849733	NP_060512	R	S	RS	benign
rs1851305	XP_373077	E	A	EA	benign



rs1851716	XP_373308	S	T	ST	benign
rs1851722	XP_071093	S	F	SF	benign
rs1851723	XP_071093	N	S	NS	possibly damaging
rs1851724	XP_071093	M	T	MT	benign
rs1851725	XP_071093	M	T	MT	benign
rs1852431	NP_612143	K	Q	KQ	benign
rs1852432	NP_612143	K	R	KR	possibly damaging
rs1852644	XP_497843	K	E	KE	benign
rs1854421	NP_005821	T	M	TM	benign
rs1854949	XP_497064	R	W	RW	benign
rs1855377	NP_066566	V	I	VI	benign
rs1859058	XP_496237	H	Y	HY	benign
rs1859059	NP_055613	R	H	RH	benign
rs1859298	NP_039228	H	Q	HQ	benign
rs1859330	NP_006178	R	K	RK	benign
rs1859728	NP_003771	Q	H	QH	benign
rs1859788	NP_840056	R	G	RG	benign
rs1859788	NP_840057	R	G	RG	benign
rs1859788	NP_038467	R	G	RG	benign
rs1860134	XP_086001	L	H	LH	probably damaging
rs1860150	NP_940910	K	T	KT	benign
rs1860251	NP_061746	R	S	RS	benign
rs1860251	NP_115267	R	S	RS	probably damaging
rs1860447	NP_525022	R	H	RH	benign
rs1860447	NP_759018	R	H	RH	probably damaging
rs1860543	NP_001295	T	I	TI	benign
rs1860596	XP_039169	R	H	RH	possibly damaging
rs1860961	NP_065106	S	A	SA	benign
rs1861727	NP_945341	L	F	LF	benign
rs1861948	NP_060551	P	S	PS	possibly damaging
rs1862136	NP_115956	L	V	LV	benign
rs1862171	NP_075064	R	G	RG	possibly damaging
rs1862792	NP_005144	M	V	MV	benign
rs1863703	NP_056505	K	R	KR	benign
rs1863704	NP_056505	G	D	GD	possibly damaging
rs1863968	NP_620687	M	V	MV	benign
rs1864011	NP_001497	F	L	FL	benign
rs1864116	NP_689576	V	A	VA	benign
rs1864183	NP_113670	T	M	TM	benign
rs1864253	NP_060470	R	G	RG	possibly damaging
rs1864312	NP_006052	A	S	AS	benign
rs1864345	NP_689641	E	K	EK	benign
rs1864346	XP_060957	A	T	AT	benign
rs1864423	NP_000375	T	N	TN	benign
rs1864545	NP_004760	N	S	NS	benign
rs1864545	NP_064717	N	S	NS	benign

rs1864545	NP_064718	N	S	NS	benign
rs1865102	XP_292724	Q	K	QK	benign
rs1866389	NP_003239	A	P	AP	benign
rs1866878	NP_110430	E	K	EK	benign
rs1866878	NP_060444	E	K	EK	benign
rs1866928	NP_689472	T	S	TS	benign
rs1867165	XP_292624	P	S	PS	possibly damaging
rs1867298	NP_059106	S	I	SI	benign
rs1867380	NP_066190	A	T	AT	benign
rs1867586	NP_067049	T	K	TK	benign
rs1867780	XP_370878	S	T	ST	benign
rs1868024	NP_477513	S	P	SP	possibly damaging
rs1868463	XP_292193	R	H	RH	benign
rs1869199	XP_496026	R	Q	RQ	benign
rs1869349	NP_877417	R	H	RH	benign
rs1869609	NP_002371	E	K	EK	benign
rs1869609	NP_085072	E	K	EK	benign
rs1869788	NP_473373	Y	C	YC	possibly damaging
rs1869803	XP_172801	D	E	DE	benign
rs1870035	NP_653273	H	R	HR	probably damaging
rs1870035	NP_733764	H	R	HR	probably damaging
rs1870074	XP_371196	P	S	PS	benign
rs1870377	NP_002244	Q	H	QH	possibly damaging
rs1870545	NP_079059	D	G	DG	possibly damaging
rs1871035	NP_057450	G	D	GD	benign
rs1871415	NP_597996	A	V	AV	benign
rs1871526	XP_171032	A	T	AT	benign
rs1871533	NP_570901	T	M	TM	benign
rs1871534	NP_570901	L	V	LV	benign
rs1871748	NP_000089	S	C	SC	possibly damaging
rs1871892	NP_060029	S	P	SP	possibly damaging
rs1872267	NP_996672	R	W	RW	benign
rs1872438	NP_055686	I	K	IK	benign
rs1873379	NP_056307	A	P	AP	benign
rs1873808	NP_079032	A	G	AG	benign
rs1875845	NP_859065	G	D	GD	possibly damaging
rs1876025	XP_372348	K	T	KT	possibly damaging
rs1876268	NP_060718	R	G	RG	probably damaging
rs1876387	NP_060404	S	F	SF	benign
rs1876388	NP_060404	N	T	NT	benign
rs1877031	NP_006795	R	Q	RQ	benign
rs1878061	NP_852114	G	R	GR	benign
rs1878313	NP_060101	I	V	IV	benign
rs1878326	NP_005919	M	L	ML	benign
rs1878740	NP_061027	E	K	EK	benign
rs1879761	NP_919224	A	V	AV	benign

rs1880056	XP_291745	R	S	RS	benign
rs1880458	NP_055201	V	I	VI	benign
rs1881254	XP_371486	S	F	SF	possibly damaging
rs1881420	NP_004295	K	R	KR	benign
rs1881421	NP_004295	D	E	DE	benign
rs1881423	NP_004295	P	H	PH	probably damaging
rs1882118	NP_775180	L	V	LV	benign
rs1882118	NP_775181	L	V	LV	benign
rs1882655	XP_380121	M	T	MT	benign
rs1883024	NP_005493	L	P	LP	possibly damaging
rs1883083	NP_036350	G	R	GR	possibly damaging
rs1883206	NP_056189	P	L	PL	possibly damaging
rs1883216	NP_009080	S	A	SA	benign
rs1884146	XP_497707	C	R	CR	possibly damaging
rs1884147	XP_497707	R	H	RH	benign
rs1884444	NP_653302	Q	H	QH	possibly damaging
rs1884504	XP_371285	P	S	PS	possibly damaging
rs1884643	NP_689824	T	A	TA	benign
rs1885097	NP_055792	S	P	SP	benign
rs1885137	XP_170754	E	A	EA	possibly damaging
rs1885434	NP_006166	R	C	RC	benign
rs1885434	NP_932326	R	C	RC	benign
rs1885533	XP_375853	V	A	VA	benign
rs1885956	NP_003882	V	I	VI	benign
rs1885986	NP_060045	R	P	RP	possibly damaging
rs1885987	NP_060045	T	N	TN	benign
rs1886297	NP_997281	G	R	GR	probably damaging
rs1886686	NP_079039	A	G	AG	benign
rs1886996	NP_057279	C	R	CR	benign
rs1886997	NP_057279	N	S	NS	benign
rs1887415	NP_000407	L	P	LP	possibly damaging
rs1889739	NP_073615	V	L	VL	benign
rs1889789	NP_000076	G	A	GA	benign
rs1891460	NP_689704	V	I	VI	benign
rs1891627	NP_689499	R	W	RW	probably damaging
rs1891630	NP_689499	A	V	AV	benign
rs1892442	XP_060318	Q	R	QR	benign
rs1892443	XP_060318	C	R	CR	possibly damaging
rs1892722	XP_496521	C	R	CR	probably damaging
rs1892723	XP_496521	V	M	VM	benign
rs1892814	NP_056957	F	L	FL	benign
rs1893024	XP_061880	A	T	AT	benign
rs1893135	NP_036510	L	F	LF	benign
rs1893523	NP_066015	A	V	AV	benign
rs1893764	XP_372436	P	S	PS	probably damaging
rs1893766	XP_372436	M	V	MV	benign

rs1893963	NP_004940	I	V	IV	benign
rs1893963	NP_077740	I	V	IV	benign
rs1894176	NP_899070	R	Q	RQ	benign
rs1894176	NP_063947	R	Q	RQ	benign
rs1894263	NP_068656	I	K	IK	possibly damaging
rs1894263	NP_000500	I	K	IK	possibly damaging
rs1894359	NP_705611	Y	F	YF	benign
rs1894473	NP_115580	R	C	RC	benign
rs1894704	NP_690054	Q	H	QH	benign
rs1894704	NP_071364	Q	H	QH	benign
rs1894706	NP_690054	H	Y	HY	benign
rs1894706	NP_071364	H	Y	HY	benign
rs1895245	NP_064552	F	L	FL	possibly damaging
rs1897820	NP_037388	S	C	SC	benign
rs1898548	NP_054750	R	L	RL	benign
rs1898882	NP_277045	C	S	CS	probably damaging
rs1902023	NP_001067	D	Y	DY	benign
rs1902836	XP_496320	S	I	SI	possibly damaging
rs1902837	XP_496320	S	I	SI	possibly damaging
rs1904589	NP_060525	R	H	RH	benign
rs1905235	NP_689911	P	S	PS	benign
rs1906643	XP_371655	H	N	HN	benign
rs1907840	XP_497051	A	T	AT	benign
rs1908946	NP_006143	C	S	CS	probably damaging
rs1908947	NP_060742	V	G	VG	possibly damaging
rs1909324	XP_495930	P	L	PL	probably damaging
rs1909771	NP_787106	A	T	AT	benign
rs1910835	XP_495872	Y	N	YN	probably damaging
rs1914016	NP_056078	R	K	RK	benign
rs1916036	NP_062550	A	G	AG	benign
rs1916830	NP_857597	C	Y	CY	probably damaging
rs1916840	NP_751946	Q	H	QH	benign
rs1916840	NP_006863	Q	H	QH	possibly damaging
rs1918496	NP_055686	L	I	LI	benign
rs1920305	NP_066568	R	H	RH	possibly damaging
rs1920314	NP_066568	M	L	ML	benign
rs1920866	XP_496692	L	F	LF	benign
rs1923185	NP_056979	N	T	NT	benign
rs1925368	NP_665803	H	Q	HQ	benign
rs1926447	NP_057497	I	T	IT	benign
rs1926447	NP_001863	T	I	TI	benign
rs1926736	NP_002429	G	S	GS	possibly damaging
rs1926899	XP_497684	R	S	RS	possibly damaging
rs1929860	NP_055641	V	I	VI	benign
rs1929860	NP_003598	V	I	VI	benign
rs1932618	NP_001695	S	N	SN	benign

rs1932993	NP_056108	E	K	EK	benign
rs1932993	NP_149062	E	K	EK	benign
rs1932993	NP_892006	E	K	EK	benign
rs1933631	NP_006606	K	Q	KQ	benign
rs1934436	NP_859066	L	I	LI	benign
rs1934437	NP_859066	L	M	LM	benign
rs1934535	NP_563581	H	R	HR	possibly damaging
rs1934536	XP_086876	W	R	WR	possibly damaging
rs1935241	XP_498338	A	S	AS	benign
rs1935680	XP_498132	W	R	WR	benign
rs1939015	NP_071405	M	T	MT	possibly damaging
rs1939569	XP_374922	Y	C	YC	probably damaging
rs1939748	NP_775857	S	T	ST	benign
rs1939927	XP_290501	C	R	CR	probably damaging
rs1940475	NP_002415	K	E	KE	benign
rs1941635	NP_899070	G	V	GV	probably damaging
rs1941635	NP_063947	G	V	GV	probably damaging
rs1942418	XP_371116	G	E	GE	benign
rs1943330	NP_114097	P	H	PH	benign
rs1943382	NP_055880	D	N	DN	benign
rs1944169	NP_055176	Y	F	YF	benign
rs1944169	NP_780775	Y	F	YF	benign
rs1944270	NP_942130	R	Q	RQ	benign
rs1944270	NP_002631	R	Q	RQ	benign
rs1945237	XP_372397	K	R	KR	possibly damaging
rs1945783	XP_291947	N	D	ND	benign
rs1946586	NP_659400	Y	C	YC	benign
rs1948516	NP_115632	R	H	RH	benign
rs1949471	NP_004078	Q	R	QR	benign
rs1950504	NP_062813	D	G	DG	benign
rs1950902	NP_005947	R	K	RK	benign
rs1950952	NP_005921	E	Q	EQ	benign
rs1950952	NP_976230	E	Q	EQ	benign
rs1950952	NP_976231	E	Q	EQ	benign
rs1950952	NP_976229	E	Q	EQ	benign
rs1950952	NP_976232	E	Q	EQ	benign
rs1951789	XP_495989	L	M	LM	benign
rs1952061	NP_055287	R	H	RH	benign
rs1952294	XP_371320	S	P	SP	possibly damaging
rs1953758	NP_997186	S	N	SN	benign
rs1954782	NP_064578	K	Q	KQ	benign
rs1956551	NP_777638	Y	C	YC	probably damaging
rs1958260	NP_115983	G	D	GD	possibly damaging
rs1958396	XP_370737	L	S	LS	benign
rs1958715	XP_063310	D	N	DN	benign
rs1958716	XP_063310	M	V	MV	benign

rs1959379	NP_115511	S	P	SP	benign
rs1959630	XP_063310	R	S	RS	benign
rs1960188	NP_077078	L	V	LV	benign
rs1960188	NP_003285	L	V	LV	benign
rs1961760	NP_060899	F	I	FI	benign
rs1961808	XP_372543	S	N	SN	benign
rs1962101	NP_001628	S	Y	SY	benign
rs1962165	NP_002772	N	K	NK	possibly damaging
rs1962318	XP_497133	A	T	AT	benign
rs1963629	XP_062300	E	K	EK	benign
rs1964954	XP_496541	Q	H	QH	benign
rs1965207	XP_062286	I	M	IM	benign
rs1965208	XP_062286	I	T	IT	benign
rs1965209	XP_062286	S	P	SP	probably damaging
rs1965665	NP_056025	Q	R	QR	benign
rs1965692	XP_498236	R	H	RH	benign
rs1965708	NP_005402	Q	K	QK	benign
rs1966087	XP_496406	D	G	DG	possibly damaging
rs1966357	NP_039226	R	S	RS	possibly damaging
rs1966834	XP_166917	H	R	HR	benign
rs1966835	XP_166917	I	T	IT	benign
rs1966836	XP_166917	S	G	SG	benign
rs1967411	XP_372377	V	F	VF	benign
rs1967445	NP_055554	L	H	LH	benign
rs1967446	NP_055554	Y	D	YD	probably damaging
rs1967646	NP_001459	D	H	DH	benign
rs1968090	NP_998763	L	H	LH	possibly damaging
rs1968956	XP_371262	H	Q	HQ	probably damaging
rs1969260	XP_497846	T	I	TI	possibly damaging
rs1969620	NP_004397	N	D	ND	benign
rs1970019	XP_498326	T	K	TK	benign
rs1970019	XP_498328	T	K	TK	benign
rs1970473	NP_940979	F	C	FC	probably damaging
rs1970721	XP_497309	R	C	RC	probably damaging
rs1970911	XP_029353	A	V	AV	benign
rs1971415	XP_372030	S	C	SC	benign
rs1971415	XP_372028	S	C	SC	benign
rs1972551	XP_165511	N	T	NT	benign
rs1972977	NP_997248	S	A	SA	benign
rs1973019	NP_003821	V	A	VA	benign
rs1974522	NP_056234	P	S	PS	benign
rs1974777	NP_056280	Q	R	QR	benign
rs1974982	NP_006854	R	G	RG	probably damaging
rs1975003	NP_079235	P	S	PS	possibly damaging
rs1975349	XP_371140	C	R	CR	possibly damaging
rs1975713	XP_371488	P	L	PL	possibly damaging

rs1975937	NP_689819	D	V	DV	probably damaging
rs1976666	NP_001066	P	A	PA	probably damaging
rs1977172	XP_371817	N	T	NT	benign
rs1977420	NP_057041	C	Y	CY	probably damaging
rs1977983	NP_001610	D	V	DV	probably damaging
rs1977994	NP_777594	N	H	NH	benign
rs1978066	NP_065769	D	Y	DY	probably damaging
rs1978067	NP_149098	N	D	ND	benign
rs1978144	NP_757386	S	L	SL	possibly damaging
rs1978651	NP_722577	R	K	RK	benign
rs1978717	NP_940882	T	I	TI	benign
rs1978725	NP_116126	P	L	PL	probably damaging
rs1979277	NP_683718	L	F	LF	benign
rs1979277	NP_004160	L	F	LF	benign
rs1979370	NP_075462	T	A	TA	benign
rs1979586	XP_370702	S	F	SF	benign
rs1980299	NP_001958	N	K	NK	probably damaging
rs1980522	NP_055906	R	I	RI	possibly damaging
rs1980600	NP_001723	V	A	VA	benign
rs1981235	XP_377644	E	A	EA	benign
rs1981235	XP_291645	E	A	EA	benign
rs1981236	XP_377644	V	I	VI	benign
rs1981236	XP_291645	V	I	VI	benign
rs1981498	NP_003037	Q	L	QL	probably damaging
rs1981656	NP_002005	T	S	TS	benign
rs1982074	NP_835388	L	P	LP	possibly damaging
rs1982074	NP_075384	L	P	LP	possibly damaging
rs1982151	NP_079221	S	N	SN	benign
rs1982338	XP_496623	L	P	LP	possibly damaging
rs1982394	XP_171766	P	L	PL	probably damaging
rs1982528	NP_004583	L	P	LP	probably damaging
rs1983210	XP_051017	E	D	ED	benign
rs1983346	NP_006092	A	P	AP	benign
rs1983406	NP_085054	E	D	ED	benign
rs1983609	NP_037459	V	A	VA	benign
rs1983864	NP_115587	A	D	AD	probably damaging
rs1984381	NP_006364	P	A	PA	possibly damaging
rs1984432	XP_371192	V	I	VI	benign
rs1984564	NP_005759	I	T	IT	benign
rs1985393	NP_777611	K	N	KN	benign
rs1985921	NP_072051	E	G	EG	possibly damaging
rs1986751	XP_377488	A	S	AS	benign
rs1987324	XP_371409	F	L	FL	probably damaging
rs1987546	NP_001519	F	L	FL	benign
rs1988062	NP_705691	D	Y	DY	probably damaging
rs1988688	NP_443092	Q	H	QH	possibly damaging

rs1990236	NP_001363	M	I	MI	probably damaging
rs1990236	NP_004653	M	I	MI	probably damaging
rs1990312	NP_006413	E	K	EK	benign
rs1990313	NP_006413	I	T	IT	benign
rs1990760	NP_071451	A	T	AT	benign
rs1991020	XP_370944	F	L	FL	benign
rs1991517	NP_000360	D	E	DE	benign
rs1993088	XP_166917	N	D	ND	benign
rs1995641	NP_003232	K	E	KE	benign
rs1995914	XP_498355	N	T	NT	benign
rs1995915	XP_498355	R	K	RK	benign
rs1996173	NP_003653	P	L	PL	probably damaging
rs1996276	NP_004727	Y	H	YH	possibly damaging
rs1996904	XP_171032	L	V	LV	benign
rs1996963	XP_371884	V	G	VG	benign
rs1997607	NP_037372	D	N	DN	possibly damaging
rs1997607	NP_877426	D	N	DN	possibly damaging
rs1997618	NP_005493	I	T	IT	possibly damaging
rs1997639	NP_005220	G	S	GS	benign
rs1998089	XP_499140	L	P	LP	benign
rs1998206	NP_002935	T	P	TP	possibly damaging
rs1998390	XP_498092	E	K	EK	benign
rs1998813	XP_376527	V	L	VL	benign
rs1998972	NP_694999	N	S	NS	benign
rs1999240	NP_059129	S	R	SR	benign
rs1999272	NP_004806	D	G	DG	possibly damaging
rs1999663	NP_149974	S	T	ST	benign
rs2000326	NP_055036	S	F	SF	benign
rs2000390	XP_377645	S	N	SN	possibly damaging
rs2000745	XP_371118	R	G	RG	probably damaging
rs2000746	XP_371118	I	T	IT	possibly damaging
rs2000813	NP_006024	T	I	TI	benign
rs2001301	NP_004726	N	S	NS	benign
rs2001490	NP_057431	A	G	AG	benign
rs2001616	NP_054799	P	L	PL	probably damaging
rs2002400	XP_497653	P	R	PR	benign
rs2002400	XP_377566	P	R	PR	benign
rs2003301	XP_380121	D	H	DH	possibly damaging
rs2003365	XP_497700	E	G	EG	probably damaging
rs2003783	NP_001639	L	I	LI	benign
rs2003812	NP_061876	C	R	CR	benign
rs2005199	NP_942143	L	F	LF	benign
rs2005199	NP_001236	L	F	LF	benign
rs2005199	NP_942142	L	F	LF	benign
rs2005771	NP_055963	G	D	GD	possibly damaging
rs2006715	NP_001089	G	W	GW	probably damaging



rs2006771	XP_038520	R	Q	RQ	benign
rs2006825	XP_371783	M	T	MT	benign
rs2006825	NP_775934	M	T	MT	benign
rs2006845	NP_005437	R	W	RW	benign
rs2006846	NP_005437	V	G	VG	possibly damaging
rs2007902	XP_498333	A	G	AG	benign
rs2008144	NP_004979	R	Q	RQ	benign
rs2008160	NP_004979	A	T	AT	benign
rs2008516	XP_498013	Y	C	YC	probably damaging
rs2008720	NP_057419	Q	P	QP	benign
rs2008733	NP_057419	L	F	LF	benign
rs2009742	XP_498369	A	V	AV	benign
rs2009813	NP_001026	N	S	NS	benign
rs2010027	XP_496218	R	H	RH	probably damaging
rs2010519	NP_689477	G	E	GE	benign
rs2010627	XP_497598	S	G	SG	benign
rs2010722	XP_372348	T	I	TI	benign
rs2010875	NP_079477	P	S	PS	benign
rs2011331	XP_048104	A	T	AT	benign
rs2011379	XP_497613	V	M	VM	benign
rs2011425	NP_009051	L	V	LV	benign
rs2011560	XP_291277	H	Q	HQ	benign
rs2011951	NP_057100	F	L	FL	benign
rs2012109	NP_005050	G	E	GE	benign
rs2012109	NP_604390	G	E	GE	benign
rs2012199	NP_112571	D	G	DG	possibly damaging
rs2012574	NP_057431	G	R	GR	possibly damaging
rs2012597	NP_005035	P	L	PL	probably damaging
rs2012736	NP_061951	L	I	LI	benign
rs2013335	NP_775487	P	L	PL	probably damaging
rs2013373	NP_002063	R	K	RK	benign
rs2013501	XP_373252	L	P	LP	probably damaging
rs2013503	XP_373252	S	N	SN	benign
rs2013622	NP_004477	V	I	VI	benign
rs2013927	XP_373038	M	V	MV	possibly damaging
rs2014055	NP_006030	V	I	VI	benign
rs2014377	NP_787071	V	L	VL	benign
rs2014410	NP_690054	L	V	LV	benign
rs2014410	NP_690056	L	V	LV	benign
rs2014410	NP_071364	L	V	LV	benign
rs2014551	NP_783856	V	I	VI	benign
rs2014551	NP_005627	V	I	VI	benign
rs2014572	XP_372753	G	E	GE	possibly damaging
rs2014576	NP_787071	P	S	PS	possibly damaging
rs2014840	NP_000958	G	V	GV	probably damaging
rs2014864	XP_371783	L	F	LF	benign

rs2014864	NP_775934	L	F	LF	benign
rs2015018	XP_373440	D	G	DG	benign
rs2015076	NP_671728	R	C	RC	possibly damaging
rs2015352	NP_000076	L	R	LR	possibly damaging
rs2016123	NP_006096	G	R	GR	possibly damaging
rs2016126	NP_060198	M	V	MV	benign
rs2017023	NP_061092	R	K	RK	benign
rs2017034	NP_061092	E	K	EK	benign
rs2017252	NP_066971	E	D	ED	benign
rs2017768	XP_499097	I	T	IT	benign
rs2017768	XP_499099	I	T	IT	benign
rs2018645	NP_003432	K	N	KN	benign
rs2018795	NP_115981	D	E	DE	benign
rs2019515	XP_371401	L	F	LF	benign
rs2019521	NP_066271	D	E	DE	benign
rs2019521	NP_072166	D	E	DE	benign
rs2019521	NP_072170	D	E	DE	benign
rs2019521	NP_001308	D	E	DE	benign
rs2019552	NP_004404	E	Q	EQ	benign
rs2019654	XP_496349	H	Y	HY	benign
rs2020050	NP_005050	V	F	VF	benign
rs2020050	NP_604390	V	F	VF	benign
rs2020390	NP_660341	A	S	AS	benign
rs2020433	NP_775931	G	D	GD	benign
rs2020860	NP_001451	F	S	FS	probably damaging
rs2020862	NP_001451	S	L	SL	probably damaging
rs2020863	NP_001451	E	G	EG	probably damaging
rs2020865	NP_001451	N	K	NK	benign
rs2020870	NP_001451	D	G	DG	probably damaging
rs2020872	NP_000240	I	V	IV	benign
rs2020873	NP_000240	H	Y	HY	possibly damaging
rs2020874	NP_000917	R	I	RI	benign
rs2020880	NP_000917	S	L	SL	possibly damaging
rs2020893	NP_002403	E	K	EK	benign
rs2020897	NP_127463	E	D	ED	benign
rs2020897	NP_001220	E	D	ED	benign
rs2020908	NP_000170	L	V	LV	benign
rs2020912	NP_000170	V	A	VA	possibly damaging
rs2020914	NP_000170	I	V	IV	benign
rs2020916	NP_000628	P	H	PH	possibly damaging
rs2020921	NP_000922	R	W	RW	probably damaging
rs2020921	NP_000921	R	W	RW	probably damaging
rs2020921	NP_127509	R	W	RW	probably damaging
rs2020945	NP_005040	N	D	ND	benign
rs2020955	NP_005227	S	P	SP	benign
rs2020956	NP_005227	G	E	GE	benign

rs2020957	NP_005227	I	V	IV	benign
rs2020961	NP_005227	A	V	AV	benign
rs2021052	NP_061760	V	M	VM	benign
rs2021810	XP_498321	E	K	EK	benign
rs2022039	NP_542775	V	I	VI	benign
rs2022923	NP_689841	D	G	DG	possibly damaging
rs2023329	NP_060866	N	H	NH	benign
rs2023478	XP_496802	A	V	AV	benign
rs2023616	NP_000583	I	F	IF	benign
rs2023616	NP_001002029	I	F	IF	benign
rs2024301	NP_919432	H	L	HL	benign
rs2024301	NP_057268	H	L	HL	benign
rs2024320	NP_954980	E	Q	EQ	benign
rs2025762	XP_371731	M	L	ML	benign
rs2026477	XP_372190	N	T	NT	benign
rs2026757	NP_954673	W	G	WG	probably damaging
rs2026757	NP_954580	W	G	WG	probably damaging
rs2027063	NP_777570	R	I	RI	possibly damaging
rs2027937	NP_061925	A	T	AT	benign
rs2030259	NP_060903	I	V	IV	benign
rs2031032	NP_000088	E	K	EK	benign
rs2031640	NP_055178	N	K	NK	possibly damaging
rs2032066	NP_009106	V	A	VA	benign
rs2032567	NP_002281	S	G	SG	benign
rs2032581	NP_000918	I	V	IV	benign
rs2032582	NP_000918	S	T	ST	benign
rs2032596	NP_004645	R	C	RC	benign
rs2032606	NP_004645	A	S	AS	benign
rs2032618	NP_004644	V	M	VM	benign
rs2032729	NP_008896	S	N	SN	benign
rs2032811	NP_056418	E	D	ED	benign
rs2032844	NP_775894	E	D	ED	benign
rs2032887	NP_005615	H	R	HR	benign
rs2032892	NP_004163	E	D	ED	benign
rs2032917	NP_078982	L	V	LV	benign
rs2033262	NP_057524	S	F	SF	possibly damaging
rs2033652	NP_004027	S	F	SF	possibly damaging
rs2034528	NP_775862	V	I	VI	benign
rs2034648	NP_055729	I	V	IV	benign
rs2034964	NP_002244	D	N	DN	benign
rs2035820	NP_683692	T	M	TM	benign
rs2035970	XP_377506	T	M	TM	benign
rs2036553	XP_495930	D	A	DA	benign
rs2037101	NP_000527	R	K	RK	benign
rs2037443	XP_496238	I	M	IM	benign
rs2037912	NP_002696	Q	E	QE	benign

rs2039475	NP_878918	H	Y	HY	benign
rs2040533	NP_443112	S	T	ST	benign
rs2041028	XP_291816	P	L	PL	possibly damaging
rs2041049	NP_006707	H	R	HR	possibly damaging
rs2041290	NP_006413	S	P	SP	benign
rs2041291	NP_006413	S	F	SF	benign
rs2041385	NP_060479	V	A	VA	benign
rs2041387	NP_060479	V	A	VA	benign
rs2042200	NP_077011	A	V	AV	benign
rs2042791	NP_078808	Q	H	QH	benign
rs2042919	NP_079337	E	G	EG	benign
rs2043112	XP_380173	S	F	SF	benign
rs2043289	XP_497610	R	C	RC	probably damaging
rs2043449	NP_065725	S	L	SL	benign
rs2043449	NP_803882	S	L	SL	benign
rs2044276	XP_017966	A	T	AT	benign
rs2044502	NP_870992	S	T	ST	benign
rs2044693	NP_064528	R	G	RG	benign
rs2044909	NP_775936	K	E	KE	benign
rs2045732	NP_055105	V	A	VA	benign
rs2046938	NP_006506	E	K	EK	benign
rs2050949	NP_005311	E	K	EK	benign
rs2052191	XP_114000	A	T	AT	benign
rs2052937	NP_722577	A	T	AT	benign
rs2053028	NP_001438	L	S	LS	benign
rs2053116	XP_061627	S	A	SA	benign
rs2053379	XP_371878	N	S	NS	benign
rs2053380	XP_371878	T	M	TM	benign
rs2055006	NP_937801	V	A	VA	benign
rs2055006	NP_937802	V	A	VA	benign
rs2055006	NP_006713	V	A	VA	benign
rs2055006	NP_937820	V	A	VA	benign
rs2055006	NP_937821	V	A	VA	benign
rs2055006	NP_000239	V	A	VA	benign
rs2055780	NP_055721	S	F	SF	possibly damaging
rs2056844	NP_061836	Q	E	QE	benign
rs2056844	NP_387505	Q	E	QE	benign
rs2056899	XP_208213	N	Y	NY	probably damaging
rs2056900	XP_208213	G	S	GS	possibly damaging
rs2057413	NP_114121	M	V	MV	benign
rs2058194	NP_000325	D	N	DN	possibly damaging
rs2058322	NP_055186	Q	H	QH	possibly damaging
rs2059696	NP_002340	H	Y	HY	benign
rs2059802	NP_064613	M	L	ML	benign
rs2059802	NP_955469	M	L	ML	benign
rs2059802	NP_955471	M	L	ML	benign

rs2059802	NP_955470	M	L	ML	benign
rs2060263	NP_443074	G	V	GV	probably damaging
rs2060872	XP_496026	I	M	IM	benign
rs2061007	NP_689662	A	G	AG	benign
rs2061634	XP_372133	S	C	SC	benign
rs2061690	NP_065385	G	D	GD	benign
rs2061699	XP_291111	S	L	SL	benign
rs2061821	NP_009131	M	T	MT	benign
rs2061821	NP_006729	M	T	MT	benign
rs2061822	NP_009131	W	R	WR	benign
rs2061822	NP_006729	W	R	WR	benign
rs2061824	NP_009131	R	C	RC	probably damaging
rs2061824	NP_006729	R	C	RC	probably damaging
rs2062970	XP_371701	L	M	LM	possibly damaging
rs2062988	NP_061176	I	M	IM	probably damaging
rs2063188	XP_372651	K	R	KR	benign
rs2063690	NP_060328	A	G	AG	benign
rs2063743	XP_496092	T	I	TI	benign
rs2064317	NP_003313	I	T	IT	benign
rs2064318	NP_003313	N	K	NK	benign
rs2064455	NP_899228	Q	H	QH	benign
rs2065434	XP_372112	A	V	AV	benign
rs2065649	XP_371801	I	V	IV	benign
rs2066455	NP_000525	E	D	ED	benign
rs2066456	NP_000525	N	S	NS	possibly damaging
rs2066459	NP_000525	R	K	RK	benign
rs2066472	NP_005948	R	Q	RQ	benign
rs2066479	NP_000188	G	S	GS	benign
rs2066480	NP_000188	V	I	VI	benign
rs2066492	NP_004575	S	A	SA	benign
rs2066497	NP_853551	V	A	VA	benign
rs2066512	NP_001489	L	S	LS	possibly damaging
rs2066518	NP_054859	E	Q	EQ	benign
rs2066520	NP_054859	D	V	DV	probably damaging
rs2066522	NP_054859	S	R	SR	benign
rs2066523	NP_054859	D	N	DN	benign
rs2066524	NP_054859	A	T	AT	benign
rs2066530	NP_008825	V	A	VA	benign
rs2066532	NP_008825	E	Q	EQ	benign
rs2066575	NP_005878	C	S	CS	probably damaging
rs2066702	NP_000659	R	C	RC	probably damaging
rs2066703	NP_077816	T	M	TM	possibly damaging
rs2066704	NP_077816	A	T	AT	benign
rs2066718	NP_005493	V	M	VM	benign
rs2066727	NP_003487	V	A	VA	benign
rs2066729	NP_003487	M	I	MI	possibly damaging

rs2066776	NP_002960	T	M	TM	possibly damaging
rs2066791	NP_002904	I	V	IV	benign
rs2066807	NP_005410	M	I	MI	benign
rs2066809	NP_005410	S	I	SI	possibly damaging
rs2066811	NP_005410	I	V	IV	benign
rs2066815	NP_005410	T	M	TM	possibly damaging
rs2066816	NP_005410	Q	H	QH	possibly damaging
rs2066817	NP_005410	L	P	LP	possibly damaging
rs2066827	NP_004055	V	G	VG	benign
rs2066828	NP_004055	R	W	RW	probably damaging
rs2066842	NP_071445	P	S	PS	benign
rs2066844	NP_071445	R	W	RW	possibly damaging
rs2066845	NP_071445	G	R	GR	probably damaging
rs2066853	NP_001612	R	K	RK	benign
rs2066870	NP_068656	Y	H	YH	benign
rs2066870	NP_000500	Y	H	YH	benign
rs2066964	NP_438170	R	S	RS	benign
rs2066964	NP_077015	R	S	RS	benign
rs2066982	NP_061978	R	Q	RQ	benign
rs2067019	NP_055243	R	H	RH	possibly damaging
rs2067466	NP_000852	K	N	KN	benign
rs2067467	NP_000852	D	E	DE	benign
rs2067470	NP_000852	L	S	LS	benign
rs2067481	NP_000731	V	I	VI	benign
rs2067648	XP_292225	S	N	SN	benign
rs2067660	XP_495917	S	F	SF	benign
rs2067912	NP_079431	C	S	CS	probably damaging
rs2068026	XP_371933	G	V	GV	benign
rs2068061	NP_037530	V	M	VM	benign
rs2068178	NP_115876	E	K	EK	benign
rs2068243	NP_996769	M	T	MT	possibly damaging
rs2068268	XP_208438	D	E	DE	benign
rs2069352	NP_954854	N	H	NH	possibly damaging
rs2069413	NP_439892	T	S	TS	benign
rs2069413	NP_001789	T	S	TS	benign
rs2069532	NP_001249	T	I	TI	benign
rs2069640	NP_000749	T	I	TI	benign
rs2069683	NP_004092	N	D	ND	benign
rs2069700	NP_004092	M	V	MV	benign
rs2069830	NP_000591	P	S	PS	benign
rs2069860	NP_000591	D	V	DV	possibly damaging
rs2069885	NP_000581	T	M	TM	benign
rs2069975	NP_000615	S	G	SG	benign
rs2069976	NP_000615	G	V	GV	probably damaging
rs2069999	NP_000615	L	P	LP	possibly damaging
rs2070025	NP_000499	I	V	IV	benign

rs2070031	NP_068657	T	A	TA	benign
rs2070031	NP_000499	T	A	TA	benign
rs2070074	NP_000146	N	D	ND	benign
rs2070094	NP_000456	V	M	VM	benign
rs2070099	NP_001657	V	L	VL	benign
rs2070121	NP_002111	L	F	LF	benign
rs2070123	NP_006408	R	W	RW	probably damaging
rs2070132	NP_009076	K	R	KR	benign
rs2070150	NP_031374	P	A	PA	benign
rs2070159	NP_001664	A	T	AT	benign
rs2070159	NP_597680	A	T	AT	benign
rs2070159	NP_899199	A	T	AT	benign
rs2070163	NP_005324	A	V	AV	benign
rs2070215	NP_005907	N	S	NS	benign
rs2070235	NP_002457	S	G	SG	benign
rs2070317	NP_777557	V	I	VI	benign
rs2070325	NP_872325	I	V	IV	benign
rs2070425	NP_006022	P	L	PL	probably damaging
rs2070426	NP_006022	Q	H	QH	benign
rs2070446	NP_705843	H	Y	HY	benign
rs2070449	NP_705843	M	R	MR	possibly damaging
rs2070492	NP_004794	A	V	AV	benign
rs2070507	NP_055449	L	R	LR	benign
rs2070600	NP_751947	G	S	GS	possibly damaging
rs2070600	NP_001127	G	S	GS	possibly damaging
rs2070661	NP_002510	I	V	IV	benign
rs2070739	NP_149162	G	S	GS	benign
rs2070745	NP_002020	V	L	VL	benign
rs2070818	NP_000108	D	H	DH	possibly damaging
rs2070832	NP_666016	S	G	SG	benign
rs2070845	NP_001538	R	K	RK	benign
rs2070856	NP_001889	P	L	PL	possibly damaging
rs2070862	NP_000925	A	V	AV	benign
rs2070863	NP_000925	W	R	WR	benign
rs2070956	NP_000138	P	R	PR	probably damaging
rs2070959	NP_001063	T	A	TA	benign
rs2071024	NP_008859	P	H	PH	probably damaging
rs2071072	NP_964013	N	H	NH	possibly damaging
rs2071072	NP_008923	N	H	NH	possibly damaging
rs2071073	NP_964013	R	L	RL	benign
rs2071073	NP_008923	R	L	RL	benign
rs2071126	NP_000045	G	E	GE	benign
rs2071152	NP_003265	V	M	VM	benign
rs2071192	NP_001979	Q	R	QR	benign
rs2071214	NP_001159	K	E	KE	benign
rs2071240	NP_000347	P	A	PA	benign

rs2071289	NP_085155	A	E	AE	benign
rs2071306	NP_004952	A	S	AS	benign
rs2071308	NP_002356	R	H	RH	benign
rs2071309	NP_002356	I	T	IT	benign
rs2071312	NP_570711	A	T	AT	benign
rs2071312	NP_570716	A	T	AT	benign
rs2071315	NP_005174	Q	K	QK	benign
rs2071421	NP_000478	N	S	NS	benign
rs2071448	NP_061826	A	V	AV	benign
rs2071478	NP_002111	V	G	VG	possibly damaging
rs2071496	NP_002408	T	S	TS	benign
rs2071529	NP_002499	R	L	RL	possibly damaging
rs2071543	NP_683720	K	Q	KQ	benign
rs2071554	NP_002111	R	Q	RQ	benign
rs2071555	NP_002109	A	E	AE	benign
rs2071560	NP_002269	I	T	IT	possibly damaging
rs2071561	NP_002269	S	Y	SY	probably damaging
rs2071563	NP_002269	T	M	TM	probably damaging
rs2071587	NP_003584	R	C	RC	benign
rs2071588	NP_002272	G	R	GR	possibly damaging
rs2071599	NP_066293	H	R	HR	benign
rs2071601	NP_002271	P	A	PA	possibly damaging
rs2071607	NP_003761	A	D	AD	benign
rs2071650	NP_002999	G	R	GR	possibly damaging
rs2071699	NP_000139	A	V	AV	benign
rs2071747	NP_002124	D	H	DH	benign
rs2071756	NP_008983	R	H	RH	benign
rs2071756	NP_039249	R	H	RH	possibly damaging
rs2071762	NP_851851	P	L	PL	possibly damaging
rs2071762	NP_851852	P	L	PL	probably damaging
rs2071800	NP_064440	G	D	GD	benign
rs2071848	NP_938011	S	T	ST	benign
rs2071883	NP_620169	L	F	LF	benign
rs2071888	NP_003181	T	R	TR	benign
rs2071888	NP_757346	T	R	TR	benign
rs2071888	NP_757345	T	R	TR	benign
rs2071913	NP_055315	G	A	GA	benign
rs2071915	NP_067082	V	I	VI	benign
rs2071921	NP_060887	V	I	VI	benign
rs2071979	NP_004195	T	A	TA	benign
rs2071979	NP_683721	T	A	TA	benign
rs2072032	XP_040527	R	G	RG	possibly damaging
rs2072036	XP_040527	A	V	AV	benign
rs2072086	NP_057725	R	Q	RQ	benign
rs2072123	NP_005128	V	A	VA	benign
rs2072129	NP_004280	V	E	VE	benign



rs2072145	NP_004749	Q	R	QR	benign
rs2072147	NP_004749	A	T	AT	benign
rs2072163	XP_376680	V	G	VG	possibly damaging
rs2072164	NP_036501	R	C	RC	probably damaging
rs2072165	NP_036501	H	R	HR	probably damaging
rs2072174	NP_775810	V	G	VG	possibly damaging
rs2072193	NP_056530	S	R	SR	benign
rs2072273	NP_659205	R	Q	RQ	benign
rs2072273	NP_659206	R	Q	RQ	benign
rs2072273	NP_006790	R	Q	RQ	benign
rs2072276	NP_665736	T	A	TA	benign
rs2072276	NP_005255	T	A	TA	benign
rs2072285	NP_002775	H	R	HR	benign
rs2072315	NP_061743	E	G	EG	benign
rs2072315	NP_114476	E	G	EG	possibly damaging
rs2072355	NP_006413	G	E	GE	probably damaging
rs2072357	NP_006413	S	L	SL	benign
rs2072394	NP_056494	V	L	VL	benign
rs2072446	NP_002498	S	L	SL	possibly damaging
rs2072452	NP_036201	V	A	VA	benign
rs2072493	NP_003259	N	S	NS	benign
rs2072501	NP_067039	V	I	VI	benign
rs2072525	NP_444506	L	I	LI	benign
rs2072526	NP_444506	K	R	KR	benign
rs2072579	NP_055521	D	E	DE	benign
rs2072596	NP_006554	F	L	FL	benign
rs2072597	NP_006554	S	P	SP	possibly damaging
rs2072648	NP_937995	R	H	RH	benign
rs2072648	NP_006580	R	H	RH	benign
rs2072663	NP_005743	Q	K	QK	benign
rs2072671	NP_001776	K	Q	KQ	benign
rs2072767	NP_061847	V	I	VI	benign
rs2072770	NP_056468	R	Q	RQ	benign
rs2072788	NP_003824	R	S	RS	benign
rs2072788	NP_085080	R	S	RS	benign
rs2072788	NP_085095	R	S	RS	benign
rs2072797	NP_056189	G	S	GS	benign
rs2072799	NP_056189	T	A	TA	benign
rs2072923	NP_878258	R	W	RW	possibly damaging
rs2072985	NP_006029	L	F	LF	benign
rs2072993	XP_052561	G	A	GA	benign
rs2072994	XP_052561	A	T	AT	benign
rs2073151	NP_039224	V	I	VI	benign
rs2073152	NP_039224	S	C	SC	benign
rs2073153	NP_039224	L	R	LR	probably damaging
rs2073154	NP_039224	F	L	FL	benign

rs2073201	XP_059318	R	K	RK	benign
rs2073260	NP_036309	Q	E	QE	benign
rs2073290	XP_046437	H	Q	HQ	possibly damaging
rs2073342	NP_002926	T	R	TR	benign
rs2073347	NP_057434	E	G	EG	possibly damaging
rs2073347	NP_065972	E	G	EG	possibly damaging
rs2073347	NP_891989	E	G	EG	possibly damaging
rs2073347	NP_891990	E	G	EG	possibly damaging
rs2073347	NP_891991	E	G	EG	possibly damaging
rs2073376	NP_006022	Q	R	QR	benign
rs2073380	NP_006022	R	S	RS	benign
rs2073405	XP_496593	H	N	HN	benign
rs2073440	NP_002103	E	D	ED	benign
rs2073478	NP_000683	R	L	RL	probably damaging
rs2073498	NP_009113	A	S	AS	benign
rs2073498	NP_733831	A	S	AS	benign
rs2073498	NP_733833	A	S	AS	benign
rs2073498	NP_733832	A	S	AS	benign
rs2073601	NP_005060	L	M	LM	benign
rs2073601	NP_033664	M	L	ML	benign
rs2073618	NP_002537	K	N	KN	benign
rs2073634	NP_085118	A	T	AT	benign
rs2073634	NP_005346	A	T	AT	benign
rs2073711	NP_003604	T	I	TI	possibly damaging
rs2073713	NP_031363	R	C	RC	possibly damaging
rs2073713	NP_005097	R	C	RC	possibly damaging
rs2073714	NP_004794	K	E	KE	benign
rs2073720	NP_061925	K	R	KR	benign
rs2073748	NP_001661	P	L	PL	probably damaging
rs2073749	NP_001661	T	M	TM	benign
rs2073770	NP_443730	W	G	WG	benign
rs2073793	XP_374489	F	S	FS	probably damaging
rs2073817	NP_009032	R	H	RH	benign
rs2073852	NP_008816	E	Q	EQ	benign
rs2073924	NP_068836	L	F	LF	benign
rs2073942	NP_001640	L	F	LF	benign
rs2074000	XP_377933	Q	K	QK	benign
rs2074005	NP_997236	V	I	VI	benign
rs2074036	XP_375305	A	V	AV	benign
rs2074051	XP_372375	C	R	CR	possibly damaging
rs2074059	XP_375663	M	L	ML	benign
rs2074060	XP_375663	C	W	CW	probably damaging
rs2074076	NP_078967	Q	E	QE	benign
rs2074077	NP_078967	V	I	VI	benign
rs2074078	NP_003435	G	V	GV	benign
rs2074158	NP_077024	Q	R	QR	benign

rs2074160	NP_077024	R	Q	RQ	benign
rs2074180	NP_787078	H	N	HN	possibly damaging
rs2074182	XP_496237	L	R	LR	possibly damaging
rs2074225	NP_006716	V	A	VA	benign
rs2074233	NP_006716	G	S	GS	benign
rs2074379	NP_079420	I	M	IM	benign
rs2074380	NP_079420	G	S	GS	possibly damaging
rs2074381	NP_079420	N	D	ND	benign
rs2074383	XP_208319	P	A	PA	possibly damaging
rs2074384	XP_208319	V	I	VI	benign
rs2074388	NP_079420	D	G	DG	benign
rs2074406	NP_006169	V	M	VM	benign
rs2074435	XP_496306	Q	L	QL	benign
rs2074442	NP_036424	E	D	ED	benign
rs2074464	XP_498078	M	V	MV	possibly damaging
rs2074466	XP_498078	P	Q	PQ	benign
rs2074467	XP_498078	F	L	FL	benign
rs2074468	XP_498078	P	S	PS	benign
rs2074469	XP_498078	F	L	FL	possibly damaging
rs2074479	NP_739575	S	P	SP	benign
rs2074479	NP_079512	S	P	SP	benign
rs2074506	XP_373419	V	L	VL	benign
rs2074599	XP_371877	F	L	FL	benign
rs2074654	NP_005847	W	R	WR	probably damaging
rs2074689	XP_376720	M	T	MT	possibly damaging
rs2074704	XP_376720	P	R	PR	benign
rs2074708	NP_775808	A	V	AV	benign
rs2074708	XP_371925	V	A	VA	benign
rs2074718	NP_775810	T	K	TK	benign
rs2074734	NP_056530	E	Q	EQ	benign
rs2074735	NP_056530	L	V	LV	benign
rs2074845	NP_008836	T	A	TA	benign
rs2074858	XP_375660	R	T	RT	benign
rs2074876	NP_003793	E	D	ED	benign
rs2074877	NP_003793	M	V	MV	probably damaging
rs2074888	NP_003191	A	V	AV	benign
rs2074890	NP_006461	E	D	ED	benign
rs2074912	NP_115783	D	G	DG	benign
rs2074912	NP_061752	D	G	DG	benign
rs2074923	NP_002775	Q	L	QL	benign
rs2074930	NP_872286	D	V	DV	possibly damaging
rs2074930	NP_872282	D	V	DV	possibly damaging
rs2075015	XP_376479	E	K	EK	benign
rs2075020	XP_375550	V	A	VA	benign
rs2075033	NP_775864	G	S	GS	benign
rs2075161	NP_056474	I	L	IL	benign

rs2075164	NP_071762	R	Q	RQ	benign
rs2075221	NP_775806	R	Q	RQ	benign
rs2075252	NP_004516	K	E	KE	benign
rs2075291	NP_443200	G	C	GC	possibly damaging
rs2075322	NP_085911	E	Q	EQ	benign
rs2075352	XP_376203	P	L	PL	benign
rs2075387	NP_057280	Q	R	QR	possibly damaging
rs2075469	NP_631909	C	R	CR	possibly damaging
rs2075472	XP_375603	P	L	PL	probably damaging
rs2075520	NP_003451	G	V	GV	probably damaging
rs2075563	NP_061978	E	K	EK	benign
rs2075639	NP_002696	A	V	AV	benign
rs2075662	NP_001846	R	H	RH	benign
rs2075684	NP_002107	F	Y	FY	benign
rs2075690	NP_002767	L	P	LP	possibly damaging
rs2075690	NP_665895	L	P	LP	possibly damaging
rs2075732	NP_703144	R	W	RW	benign
rs2075740	NP_005407	T	M	TM	benign
rs2075756	NP_003293	V	I	VI	benign
rs2075761	NP_006673	G	E	GE	benign
rs2075769	NP_002246	P	L	PL	benign
rs2075773	NP_056120	F	C	FC	possibly damaging
rs2075789	NP_079535	P	S	PS	possibly damaging
rs2075789	NP_751898	P	S	PS	possibly damaging
rs2075789	NP_751897	P	S	PS	possibly damaging
rs2075798	NP_116183	R	L	RL	benign
rs2075798	NP_079533	R	L	RL	benign
rs2075800	NP_005518	E	K	EK	benign
rs2075803	NP_055256	K	E	KE	benign
rs2075820	NP_006083	E	K	EK	benign
rs2075960	XP_114158	S	A	SA	benign
rs2076015	NP_066979	G	R	GR	benign
rs2076051	NP_777592	V	A	VA	benign
rs2076063	XP_291395	V	D	VD	probably damaging
rs2076101	NP_660341	V	I	VI	benign
rs2076109	NP_004891	K	E	KE	benign
rs2076110	NP_004891	P	L	PL	benign
rs2076185	NP_116133	V	I	VI	benign
rs2076212	NP_079501	G	C	GC	benign
rs2076213	NP_079501	C	G	CG	benign
rs2076222	NP_000219	A	D	AD	possibly damaging
rs2076299	NP_004406	Y	C	YC	probably damaging
rs2076324	NP_036363	D	E	DE	benign
rs2076324	NP_056950	D	E	DE	benign
rs2076349	NP_000219	V	M	VM	benign
rs2076371	NP_037488	A	V	AV	benign

rs2076405	NP_945345	V	M	VM	benign
rs2076472	NP_006780	I	T	IT	benign
rs2076484	NP_006389	L	S	LS	benign
rs2076485	NP_006389	I	T	IT	benign
rs2076486	NP_006389	S	P	SP	benign
rs2076487	NP_006389	A	G	AG	benign
rs2076489	NP_068703	F	L	FL	benign
rs2076489	NP_068704	F	L	FL	benign
rs2076489	NP_001461	F	L	FL	benign
rs2076506	NP_612641	T	M	TM	possibly damaging
rs2076523	NP_062548	K	E	KE	benign
rs2076530	NP_062548	S	G	SG	benign
rs2076671	NP_085145	T	M	TM	benign
rs2076672	NP_085145	T	M	TM	benign
rs2076673	NP_085145	S	C	SC	benign
rs2076742	NP_077816	W	C	WC	possibly damaging
rs2076744	NP_077816	A	T	AT	benign
rs2076745	NP_077816	I	V	IV	benign
rs2076746	NP_077816	V	M	VM	benign
rs2076754	NP_071445	A	V	AV	benign
rs2076817	XP_372191	A	V	AV	benign
rs2076955	NP_056355	A	V	AV	benign
rs2077181	XP_041018	Q	E	QE	benign
rs2077257	XP_498369	Y	H	YH	benign
rs2077268	NP_001027	V	I	VI	benign
rs2078266	NP_055626	N	D	ND	benign
rs2079451	NP_000159	S	C	SC	possibly damaging
rs2079772	NP_653272	A	D	AD	benign
rs2079773	NP_653272	Q	P	QP	benign
rs2080391	NP_056532	A	P	AP	benign
rs2081152	NP_057422	Y	F	YF	benign
rs2081447	NP_660093	V	G	VG	possibly damaging
rs2081447	NP_892009	V	G	VG	possibly damaging
rs2081744	NP_071898	P	A	PA	possibly damaging
rs2082416	XP_371167	L	M	LM	benign
rs2083543	XP_208766	D	E	DE	benign
rs2083837	NP_073149	A	S	AS	benign
rs2083914	NP_078872	R	I	RI	probably damaging
rs2084716	XP_497834	G	R	GR	possibly damaging
rs2084719	NP_006058	K	N	KN	benign
rs2085329	NP_115958	Q	H	QH	benign
rs2086234	NP_958728	L	R	LR	benign
rs2086310	NP_620687	A	P	AP	benign
rs2087732	NP_066278	A	G	AG	benign
rs2087733	NP_066278	P	L	PL	benign
rs2088305	NP_940986	L	F	LF	benign

rs2088306	NP_940986	S	F	SF	probably damaging
rs2089891	NP_116222	E	G	EG	possibly damaging
rs2090625	NP_001597	F	V	FV	possibly damaging
rs2090625	NP_997698	F	V	FV	possibly damaging
rs2093066	NP_872599	T	M	TM	benign
rs2096045	XP_496332	A	T	AT	benign
rs2096047	XP_496332	E	K	EK	benign
rs2097820	NP_055048	S	W	SW	possibly damaging
rs2098386	NP_005751	V	I	VI	benign
rs2098691	NP_055548	Y	F	YF	benign
rs2099049	XP_292832	S	L	SL	benign
rs2099104	NP_003110	S	T	ST	benign
rs2100606	NP_056498	K	N	KN	possibly damaging
rs2101624	XP_372763	D	E	DE	benign
rs2101625	XP_372763	S	F	SF	benign
rs2101711	NP_775884	A	T	AT	benign
rs2101919	NP_031387	G	D	GD	possibly damaging
rs2103819	XP_498321	K	N	KN	benign
rs2104772	NP_002151	L	I	LI	benign
rs2104978	NP_009041	H	R	HR	possibly damaging
rs2105243	XP_377644	G	E	GE	benign
rs2105243	XP_291645	G	E	GE	possibly damaging
rs2105633	NP_006380	I	S	IS	possibly damaging
rs2106347	NP_000359	D	Y	DY	probably damaging
rs2106542	NP_005437	C	S	CS	probably damaging
rs2106673	NP_006113	Q	R	QR	benign
rs2107731	XP_370765	L	V	LV	benign
rs2107732	NP_113631	V	I	VI	benign
rs2107737	XP_291223	R	Q	RQ	benign
rs2107819	NP_061976	K	Q	KQ	benign
rs2108433	NP_055721	L	F	LF	benign
rs2108485	XP_059482	A	S	AS	benign
rs2108622	NP_001073	V	M	VM	benign
rs2108777	XP_498241	Q	E	QE	benign
rs2108778	XP_498241	I	V	IV	benign
rs2108978	NP_009133	R	H	RH	probably damaging
rs2111119	XP_051197	G	S	GS	benign
rs2111543	NP_848639	R	T	RT	benign
rs2111544	NP_848639	A	V	AV	benign
rs2112717	NP_071448	E	K	EK	benign
rs2112782	NP_055309	E	K	EK	benign
rs2112811	XP_292504	L	F	LF	benign
rs2113947	NP_002411	E	K	EK	benign
rs2114664	NP_055455	R	H	RH	possibly damaging
rs2115108	NP_079337	M	T	MT	benign
rs2115480	NP_570969	V	I	VI	benign

rs2116665	NP_000399	H	R	HR	benign
rs2118388	NP_056097	A	V	AV	benign
rs2118548	NP_078796	L	I	LI	benign
rs2118760	XP_209554	D	E	DE	benign
rs2120353	NP_954697	A	G	AG	benign
rs2121816	XP_031246	G	E	GE	probably damaging
rs2122421	XP_495809	L	M	LM	benign
rs2123118	NP_005750	N	D	ND	benign
rs2123465	NP_060621	V	M	VM	benign
rs2125579	NP_004225	H	P	HP	probably damaging
rs2125739	NP_258261	I	T	IT	benign
rs2126533	NP_001097	W	R	WR	probably damaging
rs2126720	NP_005986	A	D	AD	benign
rs2126778	XP_375313	W	R	WR	probably damaging
rs2126779	XP_375313	V	A	VA	benign
rs2127679	NP_000584	A	V	AV	benign
rs2127815	XP_038291	T	K	TK	benign
rs2127898	NP_055087	T	M	TM	benign
rs2128574	XP_498803	Q	P	QP	benign
rs2128574	XP_498806	Q	P	QP	benign
rs2128600	NP_003671	Q	H	QH	probably damaging
rs2128647	XP_034086	H	R	HR	probably damaging
rs2130145	XP_037817	C	R	CR	probably damaging
rs2130262	NP_149062	E	K	EK	benign
rs2130262	NP_892006	E	K	EK	benign
rs2130882	NP_899232	P	S	PS	possibly damaging
rs2131100	NP_443728	Q	H	QH	possibly damaging
rs2131107	NP_004384	W	S	WS	probably damaging
rs2131901	NP_056655	S	C	SC	benign
rs2131901	NP_056656	S	C	SC	benign
rs2131901	NP_001102	S	C	SC	benign
rs2133173	NP_689878	I	L	IL	benign
rs2133305	XP_051091	D	N	DN	benign
rs2133788	NP_569075	D	V	DV	probably damaging
rs2133788	NP_569076	D	V	DV	probably damaging
rs2133788	NP_569077	D	V	DV	probably damaging
rs2133788	NP_002830	D	V	DV	probably damaging
rs2134185	NP_001323	Y	N	YN	probably damaging
rs2134301	XP_495896	N	I	NI	probably damaging
rs2134510	NP_009209	V	A	VA	benign
rs2134689	NP_031374	E	Q	EQ	benign
rs2135720	NP_149045	R	Q	RQ	benign
rs2136373	NP_056109	Q	H	QH	possibly damaging
rs2137484	XP_496268	P	R	PR	probably damaging
rs2137623	NP_003558	T	I	TI	benign
rs2137722	NP_127499	R	C	RC	benign

rs2137722	NP_127500	R	C	RC	possibly damaging
rs2137722	NP_055737	R	C	RC	possibly damaging
rs2137722	NP_127497	R	C	RC	possibly damaging
rs2137841	NP_000111	H	Q	HQ	probably damaging
rs2139542	NP_060669	V	G	VG	probably damaging
rs2140516	NP_071889	N	S	NS	benign
rs2140597	XP_497281	R	W	RW	possibly damaging
rs2141311	XP_496576	R	G	RG	possibly damaging
rs2142091	NP_071417	V	M	VM	benign
rs2142092	NP_071417	D	N	DN	benign
rs2142477	NP_073209	P	R	PR	probably damaging
rs2142661	NP_056468	R	C	RC	benign
rs2143598	NP_073721	E	A	EA	possibly damaging
rs2143598	NP_003942	E	A	EA	possibly damaging
rs2145412	NP_001276	F	L	FL	probably damaging
rs2145692	NP_942094	S	T	ST	benign
rs2145693	NP_942094	S	Y	SY	benign
rs2146315	NP_078779	V	I	VI	benign
rs2147377	NP_056108	V	F	VF	benign
rs2147377	NP_149062	F	V	FV	possibly damaging
rs2147377	NP_892006	V	F	VF	possibly damaging
rs2147439	NP_694988	E	K	EK	benign
rs2147896	NP_116098	T	M	TM	possibly damaging
rs2147914	NP_060291	L	M	LM	benign
rs2148136	NP_001995	I	V	IV	benign
rs2148493	XP_497249	S	N	SN	benign
rs2148578	XP_371731	Q	H	QH	probably damaging
rs2149989	NP_006186	S	Y	SY	benign
rs2150283	XP_371956	D	N	DN	benign
rs2151910	NP_631904	Y	N	YN	benign
rs2152051	NP_871001	L	S	LS	benign
rs2152099	XP_370541	R	K	RK	benign
rs2152143	NP_002408	G	S	GS	benign
rs2153358	XP_291625	K	T	KT	benign
rs2153358	XP_291638	K	T	KT	benign
rs2154028	NP_006166	V	A	VA	benign
rs2154028	NP_932326	V	A	VA	benign
rs2155587	NP_443164	V	M	VM	benign
rs2156710	NP_004696	F	V	FV	probably damaging
rs2156711	NP_004696	D	Y	DY	possibly damaging
rs2156928	NP_076493	Y	D	YD	probably damaging
rs2156928	NP_000416	Y	D	YD	probably damaging
rs2157680	NP_002107	K	N	KN	benign
rs2158367	NP_077005	T	A	TA	benign
rs2158692	NP_079186	H	R	HR	possibly damaging
rs2159258	NP_114475	Q	R	QR	benign



rs2159258	NP_061742	Q	R	QR	benign
rs2159261	NP_062558	D	A	DA	possibly damaging
rs2159439	NP_757344	A	D	AD	benign
rs2159439	NP_757343	A	D	AD	benign
rs2159903	NP_076406	P	L	PL	probably damaging
rs2159940	NP_660330	E	K	EK	benign
rs2160780	NP_055312	T	P	TP	benign
rs2161344	NP_938080	R	W	RW	probably damaging
rs2162321	XP_113743	A	T	AT	benign
rs2162771	NP_000199	P	L	PL	benign
rs2162986	NP_981951	A	T	AT	benign
rs2163204	NP_000375	N	H	NH	benign
rs2163496	NP_443728	V	E	VE	possibly damaging
rs2163649	NP_079029	L	F	LF	benign
rs2164559	NP_001938	G	S	GS	possibly damaging
rs2164675	NP_005487	E	D	ED	benign
rs2164791	XP_371575	Y	C	YC	probably damaging
rs2165627	NP_002828	D	E	DE	benign
rs2165678	XP_057040	E	K	EK	benign
rs2166071	NP_065924	G	R	GR	probably damaging
rs2166387	XP_377896	K	Q	KQ	benign
rs2166589	NP_008954	S	F	SF	possibly damaging
rs2167079	NP_001601	R	Q	RQ	benign
rs2168538	NP_004704	S	C	SC	possibly damaging
rs2168749	NP_006602	V	I	VI	benign
rs2168854	NP_076977	A	V	AV	benign
rs2169710	NP_689787	R	S	RS	benign
rs2170363	NP_859053	R	G	RG	benign
rs2170562	NP_055754	R	H	RH	benign
rs2170814	NP_060183	G	R	GR	possibly damaging
rs2171492	NP_057436	G	C	GC	benign
rs2171509	NP_620385	K	R	KR	benign
rs2171509	NP_620386	K	R	KR	benign
rs2171509	NP_740750	K	R	KR	benign
rs2171509	NP_620161	K	R	KR	benign
rs2172257	NP_116167	A	T	AT	benign
rs2172397	NP_000149	V	I	VI	benign
rs2172521	NP_006567	E	K	EK	benign
rs2172826	NP_004439	P	R	PR	probably damaging
rs2173045	NP_940986	S	F	SF	probably damaging
rs2173105	XP_371837	Q	R	QR	possibly damaging
rs2173904	NP_055693	R	P	RP	possibly damaging
rs2173970	XP_495940	V	L	VL	benign
rs2175563	NP_004353	V	I	VI	benign
rs2175968	NP_997286	M	T	MT	benign
rs2175977	NP_000538	S	T	ST	benign

rs2175977	NP_783650	S	T	ST	benign
rs2175977	NP_783651	S	T	ST	benign
rs2175977	NP_783652	S	T	ST	benign
rs2175998	XP_061880	D	N	DN	benign
rs2177528	XP_376622	Q	R	QR	benign
rs2177535	XP_497281	S	R	SR	benign
rs2177710	NP_055534	R	C	RC	possibly damaging
rs2178004	XP_031689	T	S	TS	benign
rs2178403	NP_004944	M	V	MV	benign
rs2178403	NP_886553	M	V	MV	benign
rs2178403	NP_937884	M	V	MV	benign
rs2178403	NP_937885	M	V	MV	benign
rs2178403	NP_937887	M	V	MV	benign
rs2179675	NP_085142	S	G	SG	benign
rs2180314	NP_000837	T	S	TS	benign
rs2180398	NP_478144	E	Q	EQ	benign
rs2180491	XP_379639	Q	H	QH	benign
rs2180491	XP_499140	Q	H	QH	benign
rs2180657	NP_068598	Y	C	YC	probably damaging
rs2180792	NP_002678	S	T	ST	benign
rs2181170	XP_496006	W	R	WR	probably damaging
rs2181280	NP_078779	L	H	LH	possibly damaging
rs2181675	NP_060163	A	V	AV	benign
rs2183071	NP_001695	E	Q	EQ	benign
rs2183573	NP_061836	S	P	SP	benign
rs2183573	NP_387505	S	P	SP	benign
rs2184884	NP_857594	H	N	HN	possibly damaging
rs2184953	XP_048104	Y	H	YH	benign
rs2185379	NP_001189	G	S	GS	benign
rs2185639	NP_055263	Y	H	YH	probably damaging
rs2185724	XP_166132	R	G	RG	benign
rs2185913	NP_006166	Y	C	YC	probably damaging
rs2185913	NP_932326	Y	C	YC	probably damaging
rs2186564	NP_078960	V	M	VM	benign
rs2186797	NP_060513	F	S	FS	possibly damaging
rs2187016	NP_689841	H	D	HD	benign
rs2187094	NP_079057	K	R	KR	benign
rs2187601	NP_002015	A	P	AP	benign
rs2188736	NP_003435	L	V	LV	benign
rs2189335	NP_115684	N	K	NK	benign
rs2189473	NP_055769	Q	H	QH	possibly damaging
rs2190209	XP_208373	S	P	SP	benign
rs2190729	NP_003793	G	R	GR	probably damaging
rs2191432	NP_006201	A	T	AT	benign
rs2192828	XP_371878	F	C	FC	probably damaging
rs2193430	NP_443132	V	L	VL	benign

rs2193430	NP_937756	V	L	VL	benign
rs2193430	NP_937757	V	L	VL	benign
rs2193587	NP_001337	K	R	KR	benign
rs2193595	XP_370769	K	E	KE	benign
rs2194816	NP_003613	V	L	VL	benign
rs2194816	NP_803193	V	L	VL	benign
rs2195310	NP_115973	D	N	DN	benign
rs2195951	XP_064883	Y	C	YC	benign
rs2195980	XP_371174	T	I	TI	benign
rs2196862	NP_000419	P	S	PS	probably damaging
rs2197514	NP_777574	Y	N	YN	probably damaging
rs2199619	XP_371487	A	V	AV	benign
rs2202683	NP_061134	V	I	VI	benign
rs2203504	XP_377797	A	G	AG	possibly damaging
rs2205204	XP_086761	R	T	RT	benign
rs2205446	NP_037372	R	K	RK	benign
rs2205446	NP_877426	R	K	RK	benign
rs2205447	NP_037372	R	K	RK	benign
rs2205447	NP_877426	R	K	RK	benign
rs2208592	NP_079460	S	Y	SY	benign
rs2213591	NP_055068	M	T	MT	benign
rs2213616	NP_068557	R	K	RK	benign
rs2213978	NP_008816	A	S	AS	benign
rs2217332	NP_055500	R	H	RH	benign
rs2217401	NP_114144	I	L	IL	benign
rs2217652	NP_003442	M	T	MT	benign
rs2217657	XP_064883	W	C	WC	possibly damaging
rs2219078	XP_497863	G	R	GR	probably damaging
rs2219594	NP_000050	H	N	HN	probably damaging
rs2219898	NP_443132	I	M	IM	benign
rs2220247	NP_444284	A	S	AS	benign
rs2224252	NP_006652	R	K	RK	benign
rs2224391	NP_065141	S	A	SA	benign
rs2226548	NP_853631	A	T	AT	benign
rs2227249	NP_872580	A	T	AT	benign
rs2227249	NP_067021	A	T	AT	benign
rs2227264	NP_061853	S	I	SI	benign
rs2227271	NP_059509	R	Q	RQ	benign
rs2227275	NP_003824	G	S	GS	benign
rs2227275	NP_085095	G	S	GS	benign
rs2227275	NP_085080	G	S	GS	possibly damaging
rs2227278	NP_055198	R	S	RS	benign
rs2227279	NP_000614	G	E	GE	possibly damaging
rs2227291	NP_000043	V	L	VL	benign
rs2227297	NP_002591	S	C	SC	possibly damaging
rs2227310	NP_203124	D	E	DE	benign

rs2227310	NP_203125	D	E	DE	benign
rs2227329	NP_757373	L	M	LM	benign
rs2227329	NP_000750	L	M	LM	benign
rs2227329	NP_757374	L	M	LM	benign
rs2227330	NP_757373	A	T	AT	benign
rs2227330	NP_000750	A	T	AT	benign
rs2227330	NP_757374	A	T	AT	benign
rs2227346	NP_003941	F	V	FV	possibly damaging
rs2227376	NP_003941	P	L	PL	probably damaging
rs2227409	NP_005132	N	H	NH	benign
rs2227434	NP_005132	P	S	PS	benign
rs2227507	NP_065386	S	G	SG	benign
rs2227564	NP_002649	P	L	PL	possibly damaging
rs2227567	NP_002649	K	Q	KQ	benign
rs2227606	NP_000479	T	A	TA	probably damaging
rs2227624	NP_000479	V	E	VE	benign
rs2227647	NP_000593	H	P	HP	benign
rs2227669	NP_000593	R	H	RH	benign
rs2227685	NP_000593	T	N	TN	benign
rs2227723	NP_000629	R	Q	RQ	benign
rs2227741	NP_000629	A	S	AS	benign
rs2227799	NP_001983	S	Y	SY	possibly damaging
rs2227832	NP_001983	V	L	VL	benign
rs2227840	NP_000789	C	S	CS	benign
rs2227843	NP_000789	S	N	SN	benign
rs2227845	NP_000789	F	V	FV	benign
rs2227849	NP_000789	G	E	GE	probably damaging
rs2227852	NP_000789	V	I	VI	benign
rs2227869	NP_000114	C	S	CS	benign
rs2227870	NP_000114	A	E	AE	benign
rs2227871	NP_000114	A	V	AV	benign
rs2227872	NP_000114	T	M	TM	benign
rs2227891	NP_002853	D	N	DN	benign
rs2227902	NP_005603	E	D	ED	benign
rs2227903	NP_005603	K	Q	KQ	benign
rs2227914	NP_008999	M	V	MV	possibly damaging
rs2227928	NP_001175	M	T	MT	probably damaging
rs2227943	NP_000050	L	S	LS	benign
rs2227944	NP_000050	N	I	NI	probably damaging
rs2227945	NP_009230	S	G	SG	benign
rs2227945	NP_009231	S	G	SG	benign
rs2227945	NP_009232	S	G	SG	benign
rs2227945	NP_009233	S	G	SG	benign
rs2227945	NP_009228	S	G	SG	benign
rs2227954	NP_000066	H	Y	HY	probably damaging
rs2227955	NP_005518	E	A	EA	benign

rs2227956	NP_005518	M	T	MT	benign
rs2227963	XP_497911	P	L	PL	benign
rs2227973	NP_000439	K	R	KR	benign
rs2227988	NP_005179	L	F	LF	benign
rs2228006	NP_000526	E	K	EK	benign
rs2228007	NP_000526	T	A	TA	benign
rs2228013	NP_006158	R	C	RC	benign
rs2228049	NP_000582	N	D	ND	benign
rs2228053	NP_001072	I	M	IM	benign
rs2228059	NP_751950	N	T	NT	benign
rs2228063	NP_000058	N	D	ND	benign
rs2228065	NP_000689	E	K	EK	benign
rs2228067	NP_005381	E	D	ED	benign
rs2228076	NP_055154	A	V	AV	benign
rs2228078	NP_000814	M	T	MT	possibly damaging
rs2228093	NP_000683	A	V	AV	possibly damaging
rs2228108	NP_000584	L	V	LV	benign
rs2228137	NP_001993	R	W	RW	benign
rs2228139	NP_000868	A	G	AG	benign
rs2228152	NP_000123	R	G	RG	possibly damaging
rs2228154	NP_000697	G	S	GS	benign
rs2228168	NP_004516	I	T	IT	benign
rs2228180	NP_003407	S	L	SL	benign
rs2228181	NP_877962	V	I	VI	benign
rs2228193	NP_002323	L	F	LF	benign
rs2228224	NP_005260	G	D	GD	possibly damaging
rs2228226	NP_005260	E	Q	EQ	benign
rs2228231	NP_004545	S	N	SN	benign
rs2228241	NP_000129	P	L	PL	probably damaging
rs2228257	NP_003062	E	Q	EQ	benign
rs2228257	NP_620636	E	Q	EQ	benign
rs2228259	NP_005410	C	S	CS	probably damaging
rs2228262	NP_003237	N	S	NS	possibly damaging
rs2228269	NP_004445	K	R	KR	benign
rs2228271	NP_003982	R	M	RM	possibly damaging
rs2228271	NP_000106	R	M	RM	possibly damaging
rs2228273	NP_003425	G	E	GE	benign
rs2228275	NP_003427	S	L	SL	probably damaging
rs2228277	NP_003427	S	L	SL	benign
rs2228278	NP_003427	T	A	TA	possibly damaging
rs2228279	NP_003427	G	R	GR	benign
rs2228292	NP_004357	E	D	ED	benign
rs2228293	NP_055439	G	D	GD	possibly damaging
rs2228299	NP_004724	D	G	DG	benign
rs2228305	NP_004095	V	I	VI	benign
rs2228306	NP_004095	V	A	VA	benign

rs2228307	NP_004095	I	V	IV	benign
rs2228310	NP_000523	S	P	SP	benign
rs2228315	NP_002997	M	I	MI	benign
rs2228331	NP_002072	G	S	GS	benign
rs2228337	NP_000350	D	V	DV	possibly damaging
rs2228413	NP_001548	R	Q	RQ	benign
rs2228467	NP_001287	V	A	VA	benign
rs2228468	NP_001287	Y	S	YS	benign
rs2228469	NP_001287	A	V	AV	benign
rs2228470	NP_003725	H	Y	HY	benign
rs2228479	NP_002377	V	M	VM	benign
rs2228487	NP_006288	R	H	RH	possibly damaging
rs2228500	NP_000280	R	Q	RQ	benign
rs2228507	NP_003480	Y	F	YF	benign
rs2228509	NP_003913	I	M	IM	benign
rs2228510	NP_003913	V	I	VI	benign
rs2228512	NP_003913	T	A	TA	benign
rs2228513	NP_003913	S	F	SF	benign
rs2228516	NP_003913	I	V	IV	benign
rs2228525	NP_000115	T	M	TM	possibly damaging
rs2228526	NP_000115	M	V	MV	benign
rs2228527	NP_000115	R	G	RG	probably damaging
rs2228528	NP_000115	G	D	GD	possibly damaging
rs2228529	NP_000115	Q	R	QR	benign
rs2228533	NP_001965	E	D	ED	benign
rs2228539	NP_001965	M	T	MT	benign
rs2228541	NP_001747	S	A	SA	benign
rs2228545	NP_001195	S	N	SN	benign
rs2228546	XP_498309	L	F	LF	benign
rs2228547	NP_000484	G	R	GR	possibly damaging
rs2228561	NP_000085	P	L	PL	benign
rs2228563	NP_000085	R	K	RK	benign
rs2228570	NP_000367	M	T	MT	probably damaging
rs2228575	NP_001266	D	N	DN	possibly damaging
rs2228601	NP_004377	A	T	AT	benign
rs2228602	NP_004377	D	E	DE	benign
rs2228603	NP_004377	P	S	PS	probably damaging
rs2228609	NP_004034	N	K	NK	possibly damaging
rs2228612	NP_001370	I	V	IV	benign
rs2228615	NP_003250	T	A	TA	benign
rs2228621	NP_004161	F	Y	FY	benign
rs2228637	NP_003864	F	L	FL	possibly damaging
rs2228638	NP_003864	V	I	VI	benign
rs2228644	NP_002034	V	I	VI	benign
rs2228660	NP_001340	G	E	GE	benign
rs2228667	NP_000069	V	M	VM	benign

rs2228669	NP_000859	L	V	LV	benign
rs2228672	NP_002996	S	A	SA	benign
rs2228673	NP_001036	K	N	KN	benign
rs2228898	NP_060664	E	G	EG	possibly damaging
rs2228956	NP_996991	H	R	HR	benign
rs2228956	NP_004310	H	R	HR	benign
rs2228965	NP_000156	T	M	TM	possibly damaging
rs2228976	NP_002853	A	S	AS	benign
rs2228980	NP_066287	K	R	KR	benign
rs2228991	NP_005603	V	I	VI	benign
rs2229000	NP_000208	R	H	RH	benign
rs2229006	NP_004966	T	N	TN	benign
rs2229032	NP_001175	R	Q	RQ	benign
rs2229033	NP_001175	K	N	KN	benign
rs2229034	XP_372262	I	V	IV	benign
rs2229051	XP_498129	R	K	RK	benign
rs2229052	XP_498129	V	L	VL	benign
rs2229053	XP_498129	F	Y	FY	benign
rs2229054	XP_498129	K	R	KR	benign
rs2229079	NP_002935	S	L	SL	benign
rs2229080	NP_005206	R	G	RG	benign
rs2229083	NP_005350	W	G	WG	probably damaging
rs2229086	NP_005237	V	L	VL	benign
rs2229098	NP_005182	H	Y	HY	possibly damaging
rs2229103	NP_000776	V	A	VA	benign
rs2229109	NP_000918	S	N	SN	benign
rs2229113	NP_001549	G	R	GR	benign
rs2229114	NP_001549	S	L	SL	benign
rs2229116	NP_001027	I	V	IV	benign
rs2229119	NP_001027	N	S	NS	benign
rs2229125	NP_150647	I	S	IS	possibly damaging
rs2229125	NP_000671	I	S	IS	possibly damaging
rs2229125	NP_150645	I	S	IS	probably damaging
rs2229126	NP_000671	E	D	ED	benign
rs2229127	NP_000951	V	M	VM	benign
rs2229131	NP_000951	R	H	RH	benign
rs2229137	NP_005381	M	L	ML	probably damaging
rs2229150	NP_000490	R	W	RW	probably damaging
rs2229152	NP_000657	R	C	RC	probably damaging
rs2229165	NP_757351	G	R	GR	probably damaging
rs2229170	NP_001048	R	H	RH	benign
rs2229175	NP_848514	R	Q	RQ	benign
rs2229175	NP_001659	R	Q	RQ	benign
rs2229178	NP_000708	V	L	VL	benign
rs2229196	NP_001024	V	A	VA	benign
rs2229222	NP_000143	P	R	PR	probably damaging

rs2229224	NP_000143	R	Q	RQ	benign
rs2229228	NP_000914	R	Q	RQ	benign
rs2229232	NP_002176	T	M	TM	benign
rs2229255	NP_932172	R	P	RP	possibly damaging
rs2229272	NP_003398	P	S	PS	benign
rs2229277	NP_002323	Q	H	QH	possibly damaging
rs2229278	NP_002323	V	L	VL	benign
rs2229279	NP_002323	H	Y	HY	possibly damaging
rs2229291	NP_000089	F	C	FC	probably damaging
rs2229296	NP_003432	K	E	KE	benign
rs2229298	NP_000005	R	Q	RQ	possibly damaging
rs2229300	NP_005260	G	V	GV	probably damaging
rs2229304	NP_002137	T	P	TP	benign
rs2229309	NP_004545	G	A	GA	benign
rs2229311	NP_002216	R	H	RH	probably damaging
rs2229319	NP_000237	A	G	AG	benign
rs2229324	NP_000129	I	V	IV	benign
rs2229330	NP_005332	S	A	SA	benign
rs2229333	NP_733796	P	L	PL	probably damaging
rs2229333	NP_775299	P	L	PL	probably damaging
rs2229333	NP_777480	P	L	PL	probably damaging
rs2229357	NP_005529	R	Q	RQ	benign
rs2229361	NP_003062	R	H	RH	benign
rs2229361	NP_620636	R	H	RH	benign
rs2229362	NP_620309	A	T	AT	benign
rs2229363	NP_005410	Q	H	QH	benign
rs2229367	NP_003195	D	H	DH	possibly damaging
rs2229373	NP_003431	A	V	AV	benign
rs2229389	NP_000020	G	C	GC	possibly damaging
rs2229399	NP_000583	I	L	IL	benign
rs2229399	NP_001002029	I	L	IL	benign
rs2229400	NP_000583	H	D	HD	probably damaging
rs2229400	NP_001002029	H	D	HD	probably damaging
rs2229408	NP_000583	P	L	PL	probably damaging
rs2229408	NP_001002029	P	L	PL	probably damaging
rs2229423	NP_004095	R	C	RC	probably damaging
rs2229424	NP_004095	R	H	RH	possibly damaging
rs2229426	NP_004095	P	L	PL	probably damaging
rs2229440	NP_004590	V	M	VM	benign
rs2229459	NP_000701	A	V	AV	benign
rs2229464	NP_000350	R	C	RC	possibly damaging
rs2229512	NP_000413	R	Q	RQ	benign
rs2229522	NP_002517	D	E	DE	benign
rs2229523	NP_002517	T	A	TA	benign
rs2229524	NP_002517	M	T	MT	possibly damaging
rs2229531	NP_001602	V	M	VM	benign



rs2229532	NP_001602	V	I	VI	benign
rs2229558	NP_002600	P	S	PS	benign
rs2229560	NP_002600	I	T	IT	benign
rs2229571	NP_000456	R	S	RS	benign
rs2229579	NP_001832	H	Y	HY	benign
rs2229595	NP_003725	R	Q	RQ	benign
rs2229596	NP_003725	R	W	RW	probably damaging
rs2229608	NP_000331	I	T	IT	possibly damaging
rs2229616	NP_005903	I	V	IV	benign
rs2229617	NP_002377	G	S	GS	benign
rs2229629	NP_000180	R	K	RK	possibly damaging
rs2229642	NP_002215	L	V	LV	benign
rs2229656	NP_003095	E	K	EK	probably damaging
rs2229658	XP_007651	Q	R	QR	benign
rs2229659	NP_003095	V	L	VL	benign
rs2229662	NP_940991	V	L	VL	benign
rs2229662	NP_001719	V	L	VL	benign
rs2229668	NP_001738	V	I	VI	benign
rs2229685	XP_497846	N	S	NS	possibly damaging
rs2229692	NP_004564	E	G	EG	benign
rs2229699	NP_002332	A	D	AD	benign
rs2229710	NP_002944	N	K	NK	possibly damaging
rs2229712	NP_002944	K	T	KT	benign
rs2229742	NP_003480	G	R	GR	probably damaging
rs2229743	NP_003480	P	L	PL	probably damaging
rs2229746	NP_003913	T	A	TA	benign
rs2229749	NP_003913	D	E	DE	benign
rs2229761	NP_000115	V	L	VL	benign
rs2229769	NP_001965	F	C	FC	probably damaging
rs2229774	NP_000957	S	L	SL	possibly damaging
rs2229782	XP_498309	M	T	MT	benign
rs2229806	NP_000080	A	V	AV	benign
rs2229818	NP_000085	R	C	RC	possibly damaging
rs2229831	NP_002969	N	I	NI	probably damaging
rs2229839	NP_000780	P	L	PL	probably damaging
rs2229847	NP_001397	G	E	GE	probably damaging
rs2229848	NP_000417	V	A	VA	benign
rs2229857	NP_056655	R	K	RK	benign
rs2229857	NP_056656	R	K	RK	benign
rs2229857	NP_001102	R	K	RK	benign
rs2229860	NP_005036	P	R	PR	probably damaging
rs2229860	NP_774959	P	R	PR	probably damaging
rs2229876	NP_597994	F	I	FI	probably damaging
rs2229876	NP_002866	F	I	FI	probably damaging
rs2229885	NP_004161	A	G	AG	benign
rs2229886	NP_004578	C	R	CR	benign

rs2229887	NP_004578	R	K	RK	benign
rs2229893	NP_004578	M	T	MT	possibly damaging
rs2229928	NP_778203	R	S	RS	benign
rs2229928	NP_001834	R	S	RS	benign
rs2229940	NP_000800	L	M	LM	benign
rs2229954	NP_000716	R	H	RH	benign
rs2229956	NP_000737	S	L	SL	possibly damaging
rs2229961	NP_000736	V	I	VI	benign
rs2229962	NP_000162	G	D	GD	possibly damaging
rs2229967	NP_005963	S	A	SA	benign
rs2229995	NP_000029	G	S	GS	possibly damaging
rs2229996	NP_000029	T	S	TS	benign
rs2229999	NP_005366	T	I	TI	possibly damaging
rs2230000	NP_005366	T	N	TN	benign
rs2230003	NP_116559	V	I	VI	benign
rs2230003	NP_002898	V	I	VI	benign
rs2230017	NP_597816	T	I	TI	possibly damaging
rs2230018	NP_066963	T	K	TK	benign
rs2230033	NP_733933	G	D	GD	benign
rs2230043	NP_000867	E	A	EA	probably damaging
rs2230048	NP_000867	T	S	TS	benign
rs2230050	NP_076918	A	V	AV	benign
rs2230050	NP_008831	A	V	AV	benign
rs2230055	NP_002168	R	S	RS	benign
rs2230086	NP_006444	Q	R	QR	benign
rs2230092	NP_775186	S	L	SL	possibly damaging
rs2230092	NP_775187	S	L	SL	possibly damaging
rs2230092	NP_004546	S	L	SL	possibly damaging
rs2230092	NP_775188	S	L	SL	possibly damaging
rs2230093	NP_775186	L	S	LS	possibly damaging
rs2230093	NP_775187	L	S	LS	possibly damaging
rs2230093	NP_004546	L	S	LS	possibly damaging
rs2230093	NP_775188	L	S	LS	possibly damaging
rs2230094	NP_775186	P	L	PL	probably damaging
rs2230094	NP_775187	P	L	PL	probably damaging
rs2230094	NP_004546	P	L	PL	probably damaging
rs2230094	NP_775188	P	L	PL	probably damaging
rs2230095	NP_775186	P	S	PS	benign
rs2230095	NP_775187	P	S	PS	benign
rs2230095	NP_004546	P	S	PS	benign
rs2230095	NP_775188	P	S	PS	benign
rs2230098	NP_002883	N	S	NS	benign
rs2230098	NP_075376	N	S	NS	benign
rs2230098	NP_075377	N	S	NS	benign
rs2230115	XP_376172	A	T	AT	benign
rs2230129	NP_647610	L	M	LM	benign

rs2230129	NP_005670	L	M	LM	benign
rs2230131	NP_647610	P	L	PL	probably damaging
rs2230131	NP_005670	P	L	PL	probably damaging
rs2230143	NP_003370	A	P	AP	benign
rs2230165	NP_003794	T	M	TM	benign
rs2230169	NP_002366	E	Q	EQ	benign
rs2230180	NP_000009	E	K	EK	benign
rs2230190	NP_006193	H	Y	HY	possibly damaging
rs2230199	NP_000055	R	G	RG	benign
rs2230210	NP_000055	S	R	SR	possibly damaging
rs2230216	NP_001919	I	M	IM	benign
rs2230231	NP_005208	D	A	DA	benign
rs2230239	NP_002379	R	W	RW	possibly damaging
rs2230240	NP_002379	E	K	EK	benign
rs2230241	NP_002682	R	H	RH	benign
rs2230243	NP_002682	P	L	PL	benign
rs2230273	NP_002024	I	V	IV	benign
rs2230281	NP_003765	I	T	IT	possibly damaging
rs2230283	NP_003765	V	I	VI	benign
rs2230294	NP_000166	R	H	RH	benign
rs2230301	NP_004437	E	D	ED	benign
rs2230329	NP_786886	G	S	GS	benign
rs2230330	NP_002059	M	I	MI	benign
rs2230339	NP_003476	R	Q	RQ	benign
rs2230344	NP_005281	P	S	PS	possibly damaging
rs2230362	NP_036617	D	H	DH	benign
rs2230362	NP_036616	D	H	DH	benign
rs2230390	NP_002195	I	F	IF	benign
rs2230390	NP_005492	I	F	IF	benign
rs2230392	NP_002195	A	T	AT	benign
rs2230392	NP_005492	A	T	AT	benign
rs2230399	NP_002153	S	T	ST	benign
rs2230433	NP_002200	R	T	RT	possibly damaging
rs2230449	NP_005648	R	Q	RQ	benign
rs2230454	NP_002453	Q	H	QH	possibly damaging
rs2230458	NP_620121	V	L	VL	benign
rs2230458	NP_620176	V	L	VL	benign
rs2230458	NP_620177	V	L	VL	benign
rs2230458	NP_000910	V	L	VL	benign
rs2230462	NP_006210	Q	H	QH	benign
rs2230469	NP_005019	N	S	NS	benign
rs2230470	NP_005019	L	M	LM	benign
rs2230491	NP_004848	P	L	PL	probably damaging
rs2230492	NP_004848	S	F	SF	benign
rs2230512	NP_003309	D	N	DN	benign
rs2230513	NP_003309	A	V	AV	benign

rs2230516	NP_006334	R	W	RW	possibly damaging
rs2230517	NP_006334	V	I	VI	benign
rs2230523	NP_005573	T	A	TA	benign
rs2230524	NP_005573	F	L	FL	benign
rs2230537	NP_003148	T	I	TI	possibly damaging
rs2230539	NP_002732	I	V	IV	benign
rs2230539	NP_998725	I	V	IV	benign
rs2230558	XP_290345	H	P	HP	probably damaging
rs2230570	NP_004944	L	P	LP	benign
rs2230570	NP_886553	L	P	LP	benign
rs2230570	NP_937884	L	P	LP	benign
rs2230570	NP_937885	L	P	LP	benign
rs2230570	NP_937887	L	P	LP	benign
rs2230590	NP_002438	R	Q	RQ	benign
rs2230592	NP_002438	N	S	NS	benign
rs2230593	NP_002438	Q	R	QR	benign
rs2230610	NP_570924	A	V	AV	benign
rs2230610	NP_002841	A	V	AV	benign
rs2230653	NP_005310	A	V	AV	benign
rs2230667	NP_001562	R	Q	RQ	benign
rs2230674	NP_005162	P	A	PA	probably damaging
rs2230679	NP_005617	E	D	ED	benign
rs2230681	NP_002804	V	A	VA	benign
rs2230720	NP_005996	A	V	AV	benign
rs2230723	NP_004963	L	V	LV	benign
rs2230747	NP_001073	V	M	VM	benign
rs2230748	NP_001775	R	Q	RQ	benign
rs2230748	NP_510966	R	Q	RQ	benign
rs2230749	NP_004143	S	F	SF	benign
rs2230750	NP_003442	D	G	DG	benign
rs2230752	NP_003442	F	I	FI	benign
rs2230767	NP_003886	P	L	PL	possibly damaging
rs2230768	NP_005742	R	Q	RQ	benign
rs2230768	NP_671695	R	Q	RQ	benign
rs2230768	NP_671714	R	Q	RQ	benign
rs2230768	NP_671700	R	Q	RQ	benign
rs2230770	NP_644804	V	M	VM	benign
rs2230770	NP_003479	V	M	VM	benign
rs2230771	NP_644804	C	Y	CY	benign
rs2230771	NP_003479	C	Y	CY	probably damaging
rs2230781	NP_006525	P	S	PS	benign
rs2230781	NP_858045	P	S	PS	benign
rs2230782	NP_006525	Q	H	QH	possibly damaging
rs2230782	NP_858045	Q	H	QH	possibly damaging
rs2230799	NP_003941	R	Q	RQ	benign
rs2230806	NP_005493	R	K	RK	benign

rs2230808	NP_005493	K	R	KR	benign
rs2230848	NP_000120	M	K	MK	probably damaging
rs2230849	NP_001983	Y	N	YN	probably damaging
rs2230850	NP_000258	V	L	VL	benign
rs2230853	NP_002162	G	A	GA	benign
rs2230855	NP_003282	A	V	AV	benign
rs2230912	NP_002553	Q	R	QR	benign
rs2230913	NP_002553	H	Q	HQ	possibly damaging
rs2230917	NP_006261	V	L	VL	benign
rs2230922	NP_002988	T	M	TM	possibly damaging
rs2230926	NP_006281	F	C	FC	benign
rs2230950	NP_002107	V	I	VI	benign
rs2230951	NP_002107	A	P	AP	benign
rs2230953	NP_002107	L	V	LV	benign
rs2230954	NP_002107	S	L	SL	benign
rs2230955	NP_002107	A	P	AP	possibly damaging
rs2230957	NP_002107	A	V	AV	benign
rs2230958	NP_002107	W	R	WR	possibly damaging
rs2231064	NP_002107	E	D	ED	benign
rs2231065	NP_002107	W	G	WG	probably damaging
rs2231066	NP_002107	Y	H	YH	benign
rs2231067	NP_002107	G	R	GR	probably damaging
rs2231068	NP_002107	T	A	TA	benign
rs2231070	NP_002107	P	T	PT	benign
rs2231072	NP_002107	K	R	KR	benign
rs2231076	NP_002107	P	A	PA	benign
rs2231078	NP_002107	I	V	IV	benign
rs2231082	NP_002107	G	S	GS	benign
rs2231087	NP_002107	A	E	AE	probably damaging
rs2231091	NP_002107	A	V	AV	benign
rs2231093	NP_002107	A	S	AS	benign
rs2231095	NP_002107	E	K	EK	benign
rs2231096	NP_002107	Q	K	QK	benign
rs2231100	NP_002107	K	E	KE	benign
rs2231101	NP_002107	L	P	LP	benign
rs2231103	NP_002107	I	V	IV	benign
rs2231104	NP_002107	P	H	PH	benign
rs2231106	NP_002107	I	L	IL	benign
rs2231108	NP_002107	L	F	LF	benign
rs2231109	NP_002107	G	A	GA	benign
rs2231111	NP_002107	I	F	IF	benign
rs2231114	NP_002107	M	R	MR	possibly damaging
rs2231115	NP_002107	R	K	RK	benign
rs2231117	NP_002107	D	V	DV	benign
rs2231119	NP_002107	T	S	TS	benign
rs2231120	NP_002107	V	M	VM	benign

rs2231131	NP_061863	A	T	AT	benign
rs2231137	NP_004818	V	M	VM	probably damaging
rs2231142	NP_004818	Q	K	QK	benign
rs2231198	NP_003680	V	M	VM	benign
rs2231200	NP_003680	G	S	GS	benign
rs2231203	NP_003680	S	N	SN	benign
rs2231206	NP_003680	A	V	AV	benign
rs2231233	NP_004916	D	N	DN	benign
rs2231249	NP_659540	A	V	AV	benign
rs2231249	NP_037379	A	V	AV	benign
rs2231257	NP_149359	D	N	DN	benign
rs2231260	NP_003773	G	R	GR	benign
rs2231267	NP_006804	P	S	PS	possibly damaging
rs2231268	NP_006804	G	D	GD	possibly damaging
rs2231269	NP_006804	A	T	AT	benign
rs2231270	NP_006804	A	T	AT	benign
rs2231271	NP_006804	A	V	AV	benign
rs2231272	NP_006804	P	R	PR	benign
rs2231275	NP_006804	P	S	PS	possibly damaging
rs2231277	NP_006804	P	L	PL	probably damaging
rs2231342	NP_055297	T	S	TS	benign
rs2231345	NP_055297	N	K	NK	benign
rs2231347	NP_055297	A	T	AT	benign
rs2231366	NP_004323	A	V	AV	benign
rs2231369	NP_004323	R	W	RW	probably damaging
rs2231370	NP_004323	L	S	LS	possibly damaging
rs2231373	NP_008984	I	V	IV	benign
rs2231393	NP_036397	A	T	AT	benign
rs2231394	NP_036397	R	C	RC	benign
rs2231397	NP_036397	H	R	HR	benign
rs2231400	NP_689785	I	T	IT	possibly damaging
rs2231406	NP_061829	V	I	VI	benign
rs2231412	NP_061829	T	M	TM	benign
rs2231420	NP_005176	E	Q	EQ	probably damaging
rs2231426	NP_006420	N	S	NS	benign
rs2231427	NP_006420	T	A	TA	benign
rs2231483	NP_008996	E	D	ED	benign
rs2231495	NP_803124	H	R	HR	benign
rs2231495	NP_059120	H	R	HR	benign
rs2231503	NP_006440	Q	H	QH	possibly damaging
rs2231508	NP_001258	R	W	RW	probably damaging
rs2231510	NP_001258	T	I	TI	possibly damaging
rs2231522	NP_059140	C	Y	CY	probably damaging
rs2231542	NP_065135	V	L	VL	benign
rs2231543	NP_065135	P	L	PL	possibly damaging
rs2231546	NP_065135	G	S	GS	benign

rs2231547	NP_065135	E	A	EA	probably damaging
rs2231548	NP_065135	R	C	RC	possibly damaging
rs2231630	NP_056494	P	L	PL	benign
rs2231637	NP_056494	T	S	TS	benign
rs2231650	NP_057522	D	N	DN	benign
rs2231658	NP_003380	G	R	GR	probably damaging
rs2231658	NP_438171	G	R	GR	probably damaging
rs2231659	NP_003380	H	Q	HQ	probably damaging
rs2231659	NP_438171	H	Q	HQ	probably damaging
rs2231660	NP_003380	A	T	AT	benign
rs2231660	NP_438171	A	T	AT	benign
rs2231666	NP_003380	R	H	RH	possibly damaging
rs2231666	NP_438171	R	H	RH	possibly damaging
rs2231682	NP_004367	R	C	RC	probably damaging
rs2231682	NP_510870	R	C	RC	probably damaging
rs2231705	NP_055131	G	S	GS	benign
rs2231752	NP_056324	D	N	DN	benign
rs2231791	NP_004641	V	I	VI	benign
rs2231793	NP_004641	R	Q	RQ	benign
rs2231798	NP_005855	T	A	TA	benign
rs2231801	NP_115835	V	M	VM	benign
rs2231801	NP_005855	V	M	VM	benign
rs2231804	NP_115835	R	Q	RQ	benign
rs2231804	NP_005855	R	Q	RQ	benign
rs2231805	NP_115835	R	W	RW	benign
rs2231805	NP_005855	R	W	RW	probably damaging
rs2231806	NP_115835	S	F	SF	benign
rs2231806	NP_005855	S	F	SF	possibly damaging
rs2231812	NP_115835	V	M	VM	benign
rs2231812	NP_005855	V	M	VM	benign
rs2231838	NP_852479	H	R	HR	benign
rs2231838	NP_065131	H	R	HR	benign
rs2231839	NP_065131	K	T	KT	benign
rs2231839	NP_852479	K	T	KT	possibly damaging
rs2231878	NP_005239	D	V	DV	probably damaging
rs2231889	NP_004205	R	Q	RQ	benign
rs2231889	NP_942600	R	Q	RQ	benign
rs2231890	NP_942600	E	V	EV	benign
rs2231893	NP_004205	M	V	MV	possibly damaging
rs2231893	NP_942600	M	V	MV	possibly damaging
rs2231904	NP_060556	R	C	RC	benign
rs2231905	NP_060556	K	R	KR	benign
rs2231908	NP_060649	E	K	EK	benign
rs2231909	NP_060649	N	I	NI	probably damaging
rs2231916	NP_277019	R	P	RP	possibly damaging
rs2231916	NP_036308	R	P	RP	possibly damaging

rs2231917	NP_277019	S	R	SR	benign
rs2231917	NP_036308	S	R	SR	benign
rs2231924	NP_060499	S	P	SP	possibly damaging
rs2231926	NP_060499	I	V	IV	benign
rs2231927	NP_060499	M	R	MR	benign
rs2231975	NP_060543	C	Y	CY	probably damaging
rs2231976	NP_060543	R	H	RH	benign
rs2231983	NP_060562	S	T	ST	benign
rs2232005	NP_060603	P	T	PT	possibly damaging
rs2232016	NP_060607	A	V	AV	benign
rs2232026	NP_060646	R	Q	RQ	benign
rs2232027	NP_060646	Q	R	QR	benign
rs2232032	NP_060698	L	F	LF	benign
rs2232059	NP_060845	M	T	MT	possibly damaging
rs2232061	NP_060845	G	A	GA	possibly damaging
rs2232074	NP_060141	K	R	KR	benign
rs2232078	NP_060141	A	T	AT	benign
rs2232088	NP_061881	R	W	RW	probably damaging
rs2232092	NP_061881	L	P	LP	possibly damaging
rs2232142	XP_373413	V	D	VD	possibly damaging
rs2232143	XP_373413	H	R	HR	possibly damaging
rs2232176	NP_056530	A	S	AS	benign
rs2232177	NP_056530	A	V	AV	benign
rs2232180	NP_056530	H	Y	HY	benign
rs2232183	NP_056530	R	Q	RQ	benign
rs2232202	NP_005267	I	V	IV	benign
rs2232207	NP_005267	V	A	VA	possibly damaging
rs2232221	NP_291031	N	K	NK	benign
rs2232229	NP_005320	R	H	RH	benign
rs2232229	NP_619515	R	H	RH	benign
rs2232250	NP_057257	R	Q	RQ	benign
rs2232251	NP_057257	H	Q	HQ	possibly damaging
rs2232259	NP_036393	D	G	DG	benign
rs2232263	NP_036393	I	V	IV	benign
rs2232264	NP_036393	Q	E	QE	benign
rs2232266	NP_036393	S	G	SG	benign
rs2232289	NP_057554	V	I	VI	benign
rs2232300	NP_057569	C	S	CS	probably damaging
rs2232302	NP_057569	R	H	RH	possibly damaging
rs2232307	NP_057569	I	M	IM	benign
rs2232322	NP_066999	I	V	IV	benign
rs2232323	NP_066999	Y	S	YS	probably damaging
rs2232326	NP_066999	S	P	SP	possibly damaging
rs2232327	NP_066999	P	L	PL	probably damaging
rs2232328	NP_066999	S	C	SC	probably damaging
rs2232337	NP_061195	G	R	GR	possibly damaging



rs2232337	NP_758434	G	R	GR	probably damaging
rs2232340	NP_758434	A	V	AV	benign
rs2232340	NP_061195	A	V	AV	benign
rs2232343	NP_758434	R	Q	RQ	benign
rs2232343	NP_061195	R	Q	RQ	benign
rs2232346	NP_061195	F	L	FL	benign
rs2232350	NP_061195	I	T	IT	benign
rs2232351	NP_061195	N	S	NS	benign
rs2232369	NP_054728	A	V	AV	benign
rs2232376	NP_057442	A	T	AT	benign
rs2232384	NP_004684	R	C	RC	possibly damaging
rs2232386	NP_004684	P	A	PA	benign
rs2232387	NP_004684	A	T	AT	benign
rs2232390	NP_004684	R	Q	RQ	benign
rs2232393	NP_004684	E	G	EG	probably damaging
rs2232396	NP_004684	R	C	RC	benign
rs2232397	NP_004684	R	W	RW	probably damaging
rs2232398	NP_004684	E	K	EK	probably damaging
rs2232402	NP_004684	I	V	IV	benign
rs2232405	NP_004684	M	T	MT	probably damaging
rs2232406	NP_004684	R	C	RC	benign
rs2232416	NP_057695	T	M	TM	benign
rs2232416	NP_201568	T	M	TM	benign
rs2232423	NP_055539	M	T	MT	benign
rs2232430	NP_055539	R	K	RK	benign
rs2232431	NP_055539	I	K	IK	benign
rs2232432	NP_055539	C	R	CR	probably damaging
rs2232434	NP_055539	N	D	ND	benign
rs2232436	NP_055539	P	R	PR	probably damaging
rs2232437	NP_055539	H	Y	HY	benign
rs2232448	XP_376525	A	T	AT	benign
rs2232455	XP_375685	P	L	PL	probably damaging
rs2232470	NP_067680	R	L	RL	possibly damaging
rs2232483	NP_060045	R	Q	RQ	benign
rs2232487	NP_060045	N	S	NS	benign
rs2232505	NP_055755	S	R	SR	benign
rs2232507	NP_055755	R	W	RW	probably damaging
rs2232532	NP_036559	G	R	GR	benign
rs2232534	NP_036559	I	V	IV	benign
rs2232535	NP_036559	S	T	ST	benign
rs2232551	NP_000414	R	G	RG	probably damaging
rs2232557	NP_000414	R	H	RH	benign
rs2232565	NP_002280	I	V	IV	benign
rs2232583	NP_004130	R	Q	RQ	benign
rs2232585	NP_004130	L	I	LI	benign
rs2232586	NP_004130	S	C	SC	possibly damaging

rs2232591	NP_004130	L	F	LF	benign
rs2232597	NP_004130	D	N	DN	benign
rs2232601	NP_004130	M	I	MI	benign
rs2232607	NP_004130	D	G	DG	possibly damaging
rs2232608	NP_004130	H	R	HR	probably damaging
rs2232610	NP_004130	R	Q	RQ	benign
rs2232613	NP_004130	P	L	PL	probably damaging
rs2232615	NP_004130	I	T	IT	possibly damaging
rs2232618	NP_004130	F	L	FL	benign
rs2232619	NP_004130	A	T	AT	benign
rs2232627	NP_005555	P	S	PS	possibly damaging
rs2232633	NP_958800	R	Q	RQ	benign
rs2232640	NP_996820	E	G	EG	probably damaging
rs2232641	NP_996820	I	V	IV	benign
rs2232642	NP_996820	A	T	AT	benign
rs2232659	NP_057000	A	T	AT	benign
rs2232660	NP_057000	V	G	VG	probably damaging
rs2232662	NP_057000	V	M	VM	benign
rs2232699	NP_057270	L	Q	LQ	benign
rs2232700	NP_057270	T	S	TS	benign
rs2232701	NP_057270	R	H	RH	benign
rs2232708	NP_057270	G	S	GS	benign
rs2232710	NP_057270	Q	R	QR	benign
rs2232743	NP_057578	A	V	AV	benign
rs2232760	NP_057647	Q	P	QP	benign
rs2232786	NP_057663	E	K	EK	benign
rs2232791	NP_057712	T	A	TA	benign
rs2232791	NP_567822	T	A	TA	benign
rs2232791	NP_567823	T	A	TA	benign
rs2232793	NP_567823	P	T	PT	benign
rs2232793	NP_057712	P	T	PT	possibly damaging
rs2232793	NP_567822	P	T	PT	possibly damaging
rs2232816	NP_057019	M	V	MV	possibly damaging
rs2232817	NP_057019	Q	R	QR	possibly damaging
rs2232819	NP_057019	M	I	MI	possibly damaging
rs2232840	NP_057168	S	G	SG	benign
rs2232842	NP_057327	N	S	NS	benign
rs2232918	NP_067034	A	V	AV	benign
rs2232919	NP_067034	Q	R	QR	benign
rs2232920	NP_067034	P	S	PS	possibly damaging
rs2232924	NP_067034	R	G	RG	possibly damaging
rs2232940	NP_006543	N	T	NT	benign
rs2232950	NP_006542	P	L	PL	benign
rs2233044	NP_004979	A	T	AT	benign
rs2233049	NP_005357	S	R	SR	benign
rs2233060	NP_057333	E	Q	EQ	benign

rs2233078	NP_620602	P	S	PS	possibly damaging
rs2233078	NP_620603	P	S	PS	possibly damaging
rs2233078	NP_002740	P	S	PS	possibly damaging
rs2233090	NP_085080	G	D	GD	possibly damaging
rs2233090	NP_085095	G	D	GD	possibly damaging
rs2233092	NP_003824	R	C	RC	possibly damaging
rs2233092	NP_085080	R	C	RC	possibly damaging
rs2233092	NP_085095	R	C	RC	probably damaging
rs2233103	NP_003824	E	K	EK	benign
rs2233103	NP_085080	E	K	EK	benign
rs2233103	NP_085095	E	K	EK	benign
rs2233104	NP_003824	P	L	PL	possibly damaging
rs2233104	NP_085095	P	L	PL	possibly damaging
rs2233104	NP_085080	P	L	PL	probably damaging
rs2233105	NP_003824	R	C	RC	possibly damaging
rs2233105	NP_085080	R	C	RC	probably damaging
rs2233105	NP_085095	R	C	RC	probably damaging
rs2233106	NP_003824	N	K	NK	benign
rs2233106	NP_085080	N	K	NK	possibly damaging
rs2233106	NP_085095	N	K	NK	possibly damaging
rs2233110	NP_054779	L	H	LH	probably damaging
rs2233158	NP_006524	T	I	TI	possibly damaging
rs2233167	NP_004888	V	G	VG	benign
rs2233210	NP_789776	V	A	VA	benign
rs2233211	NP_789776	V	G	VG	possibly damaging
rs2233213	NP_004522	T	A	TA	benign
rs2233215	NP_004522	T	A	TA	benign
rs2233217	NP_004522	A	V	AV	benign
rs2233218	NP_004522	H	Y	HY	possibly damaging
rs2233221	NP_004522	N	S	NS	benign
rs2233241	NP_996821	E	K	EK	benign
rs2233241	NP_996823	E	K	EK	benign
rs2233241	NP_996822	E	K	EK	benign
rs2233248	NP_996821	S	T	ST	benign
rs2233248	NP_996823	S	T	ST	benign
rs2233248	NP_996822	S	T	ST	benign
rs2233249	NP_996821	P	H	PH	probably damaging
rs2233249	NP_996823	P	H	PH	probably damaging
rs2233249	NP_996822	P	H	PH	probably damaging
rs2233251	NP_996821	S	F	SF	benign
rs2233251	NP_996823	S	F	SF	benign
rs2233251	NP_996822	S	F	SF	possibly damaging
rs2233271	NP_005958	P	S	PS	possibly damaging
rs2233289	NP_006049	A	V	AV	benign
rs2233290	NP_006049	P	A	PA	probably damaging
rs2233292	NP_006049	R	Q	RQ	benign

rs2233295	NP_006049	A	V	AV	benign
rs2233296	NP_006049	G	R	GR	probably damaging
rs2233306	NP_006049	P	L	PL	probably damaging
rs2233314	NP_057254	G	A	GA	benign
rs2233318	NP_006087	H	R	HR	benign
rs2233319	NP_006087	M	V	MV	benign
rs2233328	NP_006087	M	L	ML	benign
rs2233369	NP_057512	R	Q	RQ	benign
rs2233384	NP_005374	S	R	SR	benign
rs2233385	NP_005374	R	Q	RQ	benign
rs2233390	NP_005374	A	T	AT	benign
rs2233391	NP_005374	N	H	NH	benign
rs2233393	NP_005374	R	Q	RQ	benign
rs2233457	NP_003937	D	H	DH	possibly damaging
rs2233458	NP_003937	G	S	GS	possibly damaging
rs2233463	NP_005778	I	V	IV	benign
rs2233466	NP_005778	A	V	AV	benign
rs2233469	NP_005778	S	C	SC	benign
rs2233510	NP_733745	G	R	GR	possibly damaging
rs2233510	NP_005480	G	R	GR	possibly damaging
rs2233511	NP_733745	P	S	PS	possibly damaging
rs2233511	NP_005480	P	S	PS	possibly damaging
rs2233522	NP_002519	A	T	AT	benign
rs2233531	NP_002475	P	A	PA	probably damaging
rs2233546	NP_006180	R	W	RW	probably damaging
rs2233547	NP_006180	R	H	RH	possibly damaging
rs2233548	NP_006180	G	R	GR	possibly damaging
rs2233558	NP_063950	R	G	RG	probably damaging
rs2233559	NP_063950	V	M	VM	benign
rs2233560	NP_063950	P	S	PS	benign
rs2233561	NP_063950	T	I	TI	possibly damaging
rs2233563	NP_063950	R	H	RH	benign
rs2233564	NP_063950	M	V	MV	benign
rs2233565	NP_063950	T	A	TA	benign
rs2233567	NP_063950	V	A	VA	benign
rs2233569	NP_063950	Y	C	YC	possibly damaging
rs2233570	NP_063950	V	A	VA	benign
rs2233578	NP_006184	R	W	RW	possibly damaging
rs2233580	NP_006184	R	H	RH	possibly damaging
rs2233591	NP_037472	F	L	FL	possibly damaging
rs2233592	NP_037472	L	F	LF	benign
rs2233593	NP_037472	D	G	DG	possibly damaging
rs2233595	NP_037472	K	I	KI	possibly damaging
rs2233601	NP_061752	R	H	RH	benign
rs2233601	NP_115783	R	H	RH	possibly damaging
rs2233603	NP_115783	G	S	GS	possibly damaging

rs2233603	NP_061752	G	S	GS	possibly damaging
rs2233605	NP_061752	P	Q	PQ	benign
rs2233605	NP_115783	P	Q	PQ	probably damaging
rs2233608	NP_115783	A	V	AV	benign
rs2233608	NP_061752	A	V	AV	possibly damaging
rs2233639	NP_036523	A	T	AT	benign
rs2233640	NP_036523	P	R	PR	possibly damaging
rs2233641	NP_036523	V	A	VA	benign
rs2233642	NP_036523	M	V	MV	benign
rs2233665	NP_002625	R	L	RL	possibly damaging
rs2233701	XP_376764	E	K	EK	benign
rs2233711	NP_037400	R	Q	RQ	possibly damaging
rs2233726	NP_958505	M	V	MV	possibly damaging
rs2233732	NP_958505	N	S	NS	benign
rs2233764	NP_060092	A	V	AV	benign
rs2233783	NP_006252	G	A	GA	benign
rs2233785	NP_006252	G	E	GE	benign
rs2233829	NP_054731	P	A	PA	benign
rs2233833	NP_054731	E	Q	EQ	benign
rs2233835	NP_054731	K	E	KE	benign
rs2233843	NP_000440	A	T	AT	benign
rs2233851	NP_000440	R	Q	RQ	benign
rs2233854	NP_000440	P	R	PR	probably damaging
rs2233855	NP_000440	P	S	PS	possibly damaging
rs2233856	NP_000440	K	E	KE	benign
rs2233868	NP_005969	C	S	CS	benign
rs2233884	NP_937782	H	R	HR	possibly damaging
rs2233884	NP_002998	H	R	HR	possibly damaging
rs2233886	NP_937782	S	R	SR	benign
rs2233886	NP_002998	S	R	SR	benign
rs2233887	NP_002998	R	L	RL	benign
rs2233896	NP_002999	Q	K	QK	possibly damaging
rs2233897	NP_002999	T	A	TA	benign
rs2233899	NP_002999	A	V	AV	benign
rs2233901	NP_002999	S	N	SN	benign
rs2233903	NP_002999	H	Y	HY	probably damaging
rs2233914	XP_376903	P	L	PL	possibly damaging
rs2233915	NP_001850	P	A	PA	possibly damaging
rs2233916	NP_001850	T	S	TS	benign
rs2233920	NP_055126	G	V	GV	possibly damaging
rs2233943	NP_054787	S	C	SC	benign
rs2233944	NP_054787	A	S	AS	benign
rs2233950	NP_054788	G	D	GD	benign
rs2233951	NP_054788	G	S	GS	possibly damaging
rs2233952	NP_054788	P	L	PL	probably damaging
rs2233971	NP_054789	R	S	RS	benign

rs2233974	NP_054789	L	F	LF	benign
rs2233975	NP_054789	N	D	ND	benign
rs2233976	NP_054789	G	R	GR	possibly damaging
rs2233977	NP_054789	V	A	VA	benign
rs2233978	NP_054789	A	P	AP	benign
rs2233982	NP_054789	M	I	MI	benign
rs2233984	NP_054789	G	D	GD	possibly damaging
rs2233995	NP_058640	R	Q	RQ	benign
rs2233997	NP_058640	Y	S	YS	probably damaging
rs2233998	NP_058640	F	S	FS	benign
rs2233999	NP_058640	F	L	FL	benign
rs2234000	NP_058640	T	M	TM	benign
rs2234001	NP_058640	V	L	VL	benign
rs2234002	NP_058640	S	N	SN	benign
rs2234003	NP_058640	I	V	IV	benign
rs2234013	NP_061853	G	S	GS	benign
rs2234014	NP_061853	P	L	PL	probably damaging
rs2234015	NP_061853	R	Q	RQ	benign
rs2234016	NP_061853	R	L	RL	possibly damaging
rs2234026	NP_003183	A	V	AV	benign
rs2234027	NP_003183	P	S	PS	possibly damaging
rs2234028	NP_003183	P	S	PS	benign
rs2234033	NP_000345	S	F	SF	possibly damaging
rs2234036	NP_000345	A	T	AT	benign
rs2234045	NP_061149	G	A	GA	benign
rs2234046	NP_061149	G	R	GR	possibly damaging
rs2234051	NP_061149	R	Q	RQ	benign
rs2234079	NP_057219	P	L	PL	probably damaging
rs2234080	NP_057219	A	V	AV	benign
rs2234084	NP_057219	P	L	PL	probably damaging
rs2234109	NP_006396	N	S	NS	benign
rs2234112	NP_006396	L	V	LV	benign
rs2234113	NP_006396	E	D	ED	benign
rs2234121	NP_066960	R	Q	RQ	benign
rs2234146	NP_006282	T	M	TM	benign
rs2234163	NP_003811	A	T	AT	benign
rs2234167	NP_003811	V	I	VI	benign
rs2234174	NP_003802	A	T	AT	benign
rs2234231	NP_062545	P	L	PL	probably damaging
rs2234232	NP_062545	C	Y	CY	possibly damaging
rs2234233	NP_062545	R	W	RW	probably damaging
rs2234237	NP_061113	T	S	TS	benign
rs2234245	NP_061113	F	L	FL	benign
rs2234252	NP_061838	A	V	AV	benign
rs2234253	NP_061838	T	K	TK	possibly damaging
rs2234255	NP_061838	H	Y	HY	possibly damaging

rs2234256	NP_061838	L	P	LP	possibly damaging
rs2234266	NP_005718	M	V	MV	possibly damaging
rs2234267	NP_005718	S	F	SF	possibly damaging
rs2234268	NP_005718	V	M	VM	possibly damaging
rs2234278	NP_005697	H	P	HP	benign
rs2234279	NP_005697	H	Q	HQ	possibly damaging
rs2234280	NP_005697	R	S	RS	possibly damaging
rs2234281	NP_005697	G	R	GR	probably damaging
rs2234283	NP_005697	H	P	HP	possibly damaging
rs2234284	NP_005697	E	G	EG	possibly damaging
rs2234296	NP_620593	V	M	VM	benign
rs2234296	NP_620591	V	M	VM	benign
rs2234301	NP_620593	A	T	AT	benign
rs2234301	NP_620591	A	T	AT	benign
rs2234302	NP_620591	R	Q	RQ	benign
rs2234328	NP_061816	T	M	TM	probably damaging
rs2234331	NP_061816	A	V	AV	benign
rs2234333	NP_061816	Q	R	QR	probably damaging
rs2234355	NP_006555	E	K	EK	benign
rs2234356	NP_006555	K	N	KN	benign
rs2234357	NP_006555	V	A	VA	benign
rs2234365	NP_055198	R	L	RL	possibly damaging
rs2234366	NP_055198	R	C	RC	possibly damaging
rs2234367	NP_055198	S	L	SL	benign
rs2234370	NP_055198	A	T	AT	benign
rs2234373	NP_055198	C	Y	CY	probably damaging
rs2234377	NP_003326	A	T	AT	benign
rs2234379	NP_003326	P	A	PA	possibly damaging
rs2234386	NP_003326	L	V	LV	benign
rs2234387	NP_003326	H	R	HR	possibly damaging
rs2234444	NP_059509	R	M	RM	benign
rs2234446	NP_059509	C	R	CR	possibly damaging
rs2234447	NP_059509	M	T	MT	benign
rs2234449	NP_059509	N	D	ND	benign
rs2234450	NP_059509	T	A	TA	benign
rs2234451	NP_059509	T	S	TS	benign
rs2234453	NP_059509	D	Y	DY	probably damaging
rs2234454	NP_059509	V	I	VI	benign
rs2234455	NP_059509	M	T	MT	benign
rs2234462	NP_058634	G	S	GS	benign
rs2234469	NP_058634	Y	C	YC	probably damaging
rs2234496	NP_036608	R	G	RG	possibly damaging
rs2234498	NP_036608	L	P	LP	benign
rs2234499	NP_036608	R	H	RH	benign
rs2234500	NP_036608	P	R	PR	probably damaging
rs2234514	NP_006361	D	E	DE	benign

rs2234520	NP_998811	A	S	AS	benign
rs2234521	NP_998811	A	S	AS	benign
rs2234522	NP_998811	A	V	AV	benign
rs2234542	XP_210826	I	T	IT	benign
rs2234547	NP_387505	H	D	HD	benign
rs2234547	NP_061836	H	D	HD	possibly damaging
rs2234548	NP_061836	K	R	KR	benign
rs2234548	NP_387505	K	R	KR	benign
rs2234552	NP_075447	R	P	RP	probably damaging
rs2234552	NP_060248	R	P	RP	probably damaging
rs2234557	NP_075447	T	I	TI	benign
rs2234557	NP_060248	T	I	TI	benign
rs2234565	NP_005654	A	P	AP	benign
rs2234569	NP_005654	S	A	SA	benign
rs2234572	NP_005654	A	V	AV	benign
rs2234573	NP_005654	T	M	TM	benign
rs2234584	NP_077742	P	S	PS	benign
rs2234584	NP_077743	P	S	PS	benign
rs2234584	NP_000369	P	S	PS	benign
rs2234584	NP_077744	P	S	PS	benign
rs2234610	NP_005099	D	N	DN	benign
rs2234611	NP_005099	S	R	SR	benign
rs2234622	NP_005099	N	D	ND	benign
rs2234625	NP_005099	S	L	SL	possibly damaging
rs2234627	NP_005099	V	M	VM	benign
rs2234633	NP_055394	L	P	LP	possibly damaging
rs2234634	NP_055394	M	V	MV	benign
rs2234636	NP_055394	L	F	LF	benign
rs2234637	NP_055394	H	Y	HY	benign
rs2234639	NP_055394	V	I	VI	benign
rs2234641	NP_077078	D	N	DN	benign
rs2234641	NP_003285	D	N	DN	benign
rs2234671	NP_000625	S	T	ST	possibly damaging
rs2234675	NP_852125	T	K	TK	benign
rs2234675	NP_852126	T	K	TK	benign
rs2234675	NP_852123	T	K	TK	possibly damaging
rs2234675	NP_852124	T	K	TK	possibly damaging
rs2234675	NP_852122	T	K	TK	possibly damaging
rs2234697	NP_000111	R	C	RC	probably damaging
rs2234701	NP_000111	R	Q	RQ	benign
rs2234703	NP_001876	S	Y	SY	benign
rs2234704	NP_001876	P	L	PL	benign
rs2234756	NP_002066	D	N	DN	possibly damaging
rs2234905	NP_077078	T	S	TS	benign
rs2234905	NP_003285	T	S	TS	benign
rs2234906	NP_077078	R	Q	RQ	benign



rs2234906	NP_003285	R	Q	RQ	benign
rs2234910	NP_001034	V	I	VI	benign
rs2234916	NP_751951	T	A	TA	benign
rs2234917	NP_000288	M	L	ML	benign
rs2234919	NP_000360	P	T	PT	benign
rs2234922	NP_000111	H	R	HR	benign
rs2234925	NP_000252	Q	H	QH	benign
rs2234926	NP_000252	R	K	RK	benign
rs2234927	NP_000252	D	E	DE	benign
rs2234933	NP_001321	A	T	AT	benign
rs2234935	NP_000043	T	I	TI	possibly damaging
rs2234936	NP_000043	R	H	RH	benign
rs2234938	NP_000043	I	V	IV	benign
rs2234942	NP_001230	R	L	RL	benign
rs2234947	NP_000836	R	Q	RQ	benign
rs2234948	NP_000836	V	G	VG	possibly damaging
rs2234949	NP_002425	A	S	AS	benign
rs2234951	NP_000837	P	S	PS	probably damaging
rs2234953	NP_000844	E	K	EK	probably damaging
rs2234955	NP_001504	N	H	NH	benign
rs2234955	NP_665877	N	H	NH	benign
rs2234955	NP_665878	N	H	NH	benign
rs2234962	NP_004272	C	R	CR	benign
rs2234972	NP_000927	F	L	FL	probably damaging
rs2234973	NP_006220	S	F	SF	probably damaging
rs2234997	NP_000042	D	E	DE	benign
rs2234998	NP_000042	G	S	GS	benign
rs2235000	NP_000042	G	D	GD	possibly damaging
rs2235002	NP_000042	A	S	AS	benign
rs2235006	NP_000042	F	L	FL	possibly damaging
rs2235011	NP_000042	T	S	TS	benign
rs2235036	NP_000918	A	T	AT	benign
rs2235039	NP_000918	V	M	VM	benign
rs2235058	NP_002307	S	F	SF	benign
rs2235076	NP_068775	M	I	MI	benign
rs2235171	NP_055042	A	T	AT	benign
rs2235233	XP_496799	Q	R	QR	benign
rs2235324	NP_694564	K	E	KE	benign
rs2235324	NP_705837	K	E	KE	benign
rs2235491	NP_110404	A	T	AT	benign
rs2235501	NP_001494	L	V	LV	benign
rs2235501	NP_803436	L	V	LV	benign
rs2235542	NP_000219	N	D	ND	benign
rs2235587	NP_848693	H	R	HR	benign
rs2235624	NP_057195	R	Q	RQ	benign
rs2235638	NP_055529	A	V	AV	benign

rs2235730	NP_009087	Q	L	QL	possibly damaging
rs2235795	NP_957704	A	T	AT	benign
rs2235937	NP_573438	N	S	NS	benign
rs2235937	NP_573439	N	S	NS	benign
rs2235937	NP_005695	N	S	NS	benign
rs2235940	NP_573438	T	N	TN	possibly damaging
rs2235940	NP_573439	T	N	TN	possibly damaging
rs2235940	NP_005695	T	N	TN	possibly damaging
rs2235967	NP_056161	C	Y	CY	benign
rs2236005	NP_115997	Q	R	QR	benign
rs2236144	NP_078980	R	S	RS	benign
rs2236145	NP_078980	G	R	GR	benign
rs2236194	NP_690603	A	D	AD	benign
rs2236200	NP_543023	L	R	LR	possibly damaging
rs2236225	NP_005947	Q	R	QR	benign
rs2236235	XP_375087	R	Q	RQ	benign
rs2236264	NP_005597	I	V	IV	benign
rs2236316	NP_057434	P	A	PA	benign
rs2236316	NP_065972	P	A	PA	benign
rs2236316	NP_891989	P	A	PA	benign
rs2236316	NP_891990	P	A	PA	benign
rs2236316	NP_891991	P	A	PA	benign
rs2236338	NP_004122	Y	H	YH	possibly damaging
rs2236344	NP_060418	V	L	VL	benign
rs2236358	NP_444280	M	V	MV	benign
rs2236359	NP_444280	R	G	RG	benign
rs2236364	NP_652761	S	C	SC	benign
rs2236364	NP_057332	S	C	SC	possibly damaging
rs2236369	NP_004819	P	S	PS	benign
rs2236379	NP_006248	P	L	PL	benign
rs2236387	NP_060295	E	K	EK	benign
rs2236405	NP_000255	T	S	TS	benign
rs2236410	NP_001522	H	R	HR	benign
rs2236426	NP_064504	R	K	RK	benign
rs2236426	NP_078901	R	K	RK	benign
rs2236493	NP_055041	Q	R	QR	benign
rs2236639	NP_055221	W	R	WR	possibly damaging
rs2236654	NP_002171	R	W	RW	possibly damaging
rs2236695	NP_071398	T	S	TS	benign
rs2236700	NP_005904	F	L	FL	benign
rs2236722	NP_000094	W	R	WR	possibly damaging
rs2236722	NP_112503	W	R	WR	possibly damaging
rs2236729	NP_542942	E	A	EA	possibly damaging
rs2236770	NP_000291	L	F	LF	benign
rs2237051	NP_001954	I	M	IM	benign
rs2237857	NP_004620	T	I	TI	benign

rs2238472	NP_001162	R	Q	RQ	benign
rs2238549	NP_005026	E	A	EA	benign
rs2238731	NP_057419	V	M	VM	benign
rs2238892	NP_001821	Q	H	QH	possibly damaging
rs2239170	NP_958850	V	L	VL	benign
rs2239359	NP_000126	S	G	SG	benign
rs2239435	NP_689410	I	V	IV	benign
rs2239435	NP_689412	I	V	IV	benign
rs2239435	NP_689409	I	V	IV	benign
rs2239671	NP_000287	T	A	TA	benign
rs2239710	NP_066293	I	T	IT	benign
rs2239785	NP_003652	E	K	EK	benign
rs2239785	NP_663318	E	K	EK	benign
rs2239785	NP_663319	E	K	EK	benign
rs2239808	NP_775833	S	T	ST	benign
rs2239819	NP_003276	A	S	AS	benign
rs2239896	NP_055622	R	W	RW	possibly damaging
rs2240017	NP_037483	H	Q	HQ	possibly damaging
rs2240038	XP_371200	A	T	AT	benign
rs2240040	XP_371200	V	A	VA	benign
rs2240089	NP_056013	H	Q	HQ	benign
rs2240090	NP_056013	V	I	VI	benign
rs2240154	XP_290850	T	M	TM	benign
rs2240157	XP_290850	W	R	WR	benign
rs2240158	XP_290850	T	M	TM	benign
rs2240197	NP_066957	G	S	GS	possibly damaging
rs2240227	NP_039226	L	I	LI	benign
rs2240228	NP_039226	V	M	VM	benign
rs2240229	NP_039226	S	N	SN	benign
rs2240240	NP_056234	E	D	ED	benign
rs2240297	NP_149014	A	T	AT	benign
rs2240308	NP_004646	S	P	SP	probably damaging
rs2240345	NP_777635	D	E	DE	benign
rs2240359	XP_069623	A	V	AV	benign
rs2240370	NP_733787	S	L	SL	benign
rs2240423	NP_005868	D	E	DE	benign
rs2240424	NP_114439	E	D	ED	benign
rs2240424	NP_055138	E	D	ED	benign
rs2240425	NP_114439	D	E	DE	benign
rs2240425	NP_055138	D	E	DE	benign
rs2240426	NP_114439	I	S	IS	benign
rs2240426	NP_055138	I	S	IS	benign
rs2240543	NP_055963	L	S	LS	benign
rs2240694	NP_061729	C	Y	CY	possibly damaging
rs2240694	NP_113685	C	Y	CY	probably damaging
rs2240695	NP_113598	C	F	CF	probably damaging

rs2240695	NP_061723	C	F	CF	probably damaging
rs2240696	NP_061723	Y	C	YC	benign
rs2240696	NP_113598	Y	C	YC	probably damaging
rs2240697	NP_115268	N	K	NK	benign
rs2240697	NP_061747	N	K	NK	possibly damaging
rs2240698	NP_114476	L	F	LF	possibly damaging
rs2240698	NP_061743	L	F	LF	possibly damaging
rs2240717	NP_001661	V	A	VA	benign
rs2240751	NP_778148	Y	H	YH	possibly damaging
rs2240858	NP_005922	R	C	RC	benign
rs2240871	NP_055680	S	T	ST	benign
rs2240953	NP_005085	G	S	GS	benign
rs2240961	NP_004477	R	G	RG	probably damaging
rs2241002	NP_055022	P	L	PL	probably damaging
rs2241012	NP_005928	A	T	AT	benign
rs2241029	XP_496488	S	N	SN	benign
rs2241057	NP_063938	L	S	LS	benign
rs2241088	NP_005018	R	S	RS	benign
rs2241091	NP_036484	G	C	GC	possibly damaging
rs2241221	XP_495913	K	R	KR	benign
rs2241230	NP_699165	T	S	TS	benign
rs2241230	NP_878315	T	S	TS	benign
rs2241268	NP_009131	G	S	GS	benign
rs2241268	NP_658913	G	S	GS	benign
rs2241268	NP_006729	G	S	GS	benign
rs2241314	XP_376203	H	R	HR	benign
rs2241371	NP_291027	D	G	DG	possibly damaging
rs2241371	NP_963921	D	G	DG	possibly damaging
rs2241384	NP_036408	P	L	PL	probably damaging
rs2241414	XP_375358	T	A	TA	benign
rs2241433	NP_060422	S	G	SG	benign
rs2241481	NP_005103	I	V	IV	benign
rs2241481	NP_059830	I	V	IV	benign
rs2241559	NP_057285	G	S	GS	benign
rs2241571	NP_064613	T	A	TA	benign
rs2241571	NP_955469	T	A	TA	benign
rs2241571	NP_955471	T	A	TA	benign
rs2241571	NP_955470	T	A	TA	benign
rs2241586	NP_775801	S	A	SA	benign
rs2241621	NP_149095	S	A	SA	benign
rs2241625	NP_116755	M	T	MT	benign
rs2241625	NP_116754	M	T	MT	benign
rs2241625	NP_116753	M	T	MT	benign
rs2241626	NP_116751	M	T	MT	benign
rs2241626	NP_116750	M	T	MT	benign
rs2241626	NP_116749	M	T	MT	benign

rs2241626	NP_055337	M	T	MT	benign
rs2241627	NP_116755	E	K	EK	benign
rs2241627	NP_116754	E	K	EK	benign
rs2241627	NP_116753	E	K	EK	benign
rs2241628	NP_116751	C	R	CR	benign
rs2241628	NP_116750	C	R	CR	benign
rs2241628	NP_116749	C	R	CR	benign
rs2241628	NP_055337	C	R	CR	benign
rs2241647	NP_065104	Q	R	QR	benign
rs2241666	NP_127490	R	G	RG	possibly damaging
rs2241666	NP_008988	R	G	RG	possibly damaging
rs2241714	NP_085055	M	I	MI	benign
rs2241764	NP_001499	A	V	AV	benign
rs2241788	NP_570602	H	R	HR	possibly damaging
rs2241797	NP_004248	H	R	HR	benign
rs2241880	NP_110430	T	A	TA	benign
rs2241880	NP_060444	T	A	TA	benign
rs2241883	NP_001434	T	A	TA	benign
rs2241935	XP_292624	Y	H	YH	benign
rs2241980	NP_005201	R	T	RT	probably damaging
rs2242030	XP_045907	R	Q	RQ	benign
rs2242046	NP_004204	D	N	DN	benign
rs2242047	NP_004204	R	C	RC	possibly damaging
rs2242072	NP_066269	F	L	FL	benign
rs2242089	NP_075566	V	M	VM	benign
rs2242090	NP_075566	K	N	KN	benign
rs2242093	NP_055932	M	I	MI	benign
rs2242182	NP_003466	R	Q	RQ	benign
rs2242183	NP_003466	P	A	PA	possibly damaging
rs2242190	NP_002372	E	D	ED	benign
rs2242206	NP_919274	T	K	TK	benign
rs2242241	NP_958728	S	A	SA	benign
rs2242373	NP_689812	R	H	RH	benign
rs2242471	NP_060585	C	S	CS	benign
rs2242518	NP_005044	Q	R	QR	possibly damaging
rs2242616	XP_370765	Q	H	QH	possibly damaging
rs2242637	NP_476431	R	Q	RQ	benign
rs2242637	NP_476432	R	Q	RQ	benign
rs2242653	NP_067069	R	K	RK	benign
rs2242665	NP_116183	I	V	IV	benign
rs2242665	NP_079533	I	V	IV	benign
rs2242801	XP_371413	C	F	CF	probably damaging
rs2242802	XP_371413	P	L	PL	probably damaging
rs2242956	NP_620573	M	T	MT	benign
rs2242956	NP_620572	M	T	MT	possibly damaging
rs2242956	NP_620571	M	T	MT	probably damaging

rs2242956	NP_620574	M	T	MT	probably damaging
rs2242956	NP_620575	M	T	MT	probably damaging
rs2242956	NP_000401	M	T	MT	probably damaging
rs2243062	NP_005233	R	Q	RQ	benign
rs2243083	NP_005233	T	A	TA	benign
rs2243191	NP_037503	F	S	FS	benign
rs2243191	NP_715639	F	S	FS	benign
rs2243365	NP_002260	P	S	PS	benign
rs2243380	NP_002935	R	Q	RQ	benign
rs2243518	NP_004054	E	K	EK	benign
rs2243525	NP_006490	R	S	RS	benign
rs2243525	NP_963837	R	S	RS	benign
rs2243525	NP_963838	R	S	RS	benign
rs2243525	NP_963839	R	S	RS	benign
rs2243563	XP_496849	G	R	GR	possibly damaging
rs2243603	NP_006056	P	A	PA	possibly damaging
rs2243639	NP_003010	A	T	AT	benign
rs2244008	NP_000417	T	A	TA	benign
rs2244438	NP_055864	T	I	TI	possibly damaging
rs2244494	XP_085463	Q	R	QR	benign
rs2245203	NP_149034	I	V	IV	benign
rs2245220	NP_036541	T	M	TM	benign
rs2245231	NP_079131	V	I	VI	benign
rs2245408	XP_291001	R	Q	RQ	benign
rs2245803	NP_004762	K	T	KT	benign
rs2245898	NP_671731	N	T	NT	benign
rs2246614	NP_060187	S	R	SR	possibly damaging
rs2246614	NP_112554	S	R	SR	possibly damaging
rs2246614	NP_068743	S	R	SR	possibly damaging
rs2246901	NP_004523	A	S	AS	benign
rs2246901	NP_612154	A	S	AS	benign
rs2246945	NP_057245	A	D	AD	benign
rs2247114	NP_004165	R	C	RC	probably damaging
rs2248128	NP_057195	Q	R	QR	benign
rs2248250	XP_497781	T	M	TM	benign
rs2248470	XP_497781	A	T	AT	benign
rs2248484	XP_497781	R	W	RW	benign
rs2248490	NP_387510	K	N	KN	benign
rs2248609	NP_689841	Q	R	QR	benign
rs2248821	XP_029438	R	Q	RQ	benign
rs2249060	NP_006022	T	I	TI	benign
rs2249187	NP_116755	V	A	VA	benign
rs2249187	NP_116754	V	A	VA	benign
rs2249187	NP_116753	V	A	VA	benign
rs2249265	NP_004249	V	M	VM	benign
rs2249323	XP_085234	Q	E	QE	benign

rs2249464	XP_373419	W	R	WR	benign
rs2249542	NP_060616	G	E	GE	possibly damaging
rs2249778	NP_065577	T	A	TA	benign
rs2249778	NP_065578	T	A	TA	benign
rs2249778	NP_065579	T	A	TA	benign
rs2250242	NP_110394	P	S	PS	benign
rs2250377	NP_937792	M	I	MI	benign
rs2250860	NP_852611	S	N	SN	benign
rs2250889	NP_004985	P	R	PR	possibly damaging
rs2250918	NP_056507	V	I	VI	benign
rs2251220	XP_371956	S	L	SL	benign
rs2251660	NP_663629	C	W	CW	probably damaging
rs2252755	NP_056108	A	G	AG	benign
rs2252755	NP_598411	A	G	AG	benign
rs2252755	NP_892006	A	G	AG	benign
rs2252755	NP_149062	G	A	GA	benign
rs2252784	NP_002828	K	R	KR	benign
rs2252816	NP_065228	M	V	MV	benign
rs2252863	XP_373419	A	T	AT	benign
rs2252996	NP_060814	I	V	IV	benign
rs2253427	NP_006056	M	I	MI	benign
rs2253563	NP_037388	C	W	CW	probably damaging
rs2253680	NP_078898	V	M	VM	benign
rs2253849	NP_998822	S	N	SN	benign
rs2253849	NP_015567	S	N	SN	benign
rs2253849	NP_998823	S	N	SN	benign
rs2253874	XP_371111	Q	R	QR	benign
rs2254174	NP_689923	Q	R	QR	benign
rs2254419	NP_060079	G	S	GS	benign
rs2254524	NP_002331	L	V	LV	benign
rs2254562	NP_982271	K	R	KR	benign
rs2254562	NP_003886	K	R	KR	benign
rs2254796	NP_056380	L	S	LS	benign
rs2255243	NP_003913	A	G	AG	benign
rs2255255	NP_057736	T	A	TA	benign
rs2255258	NP_057736	Q	H	QH	benign
rs2255317	NP_002371	T	M	TM	benign
rs2255317	NP_085072	T	M	TM	benign
rs2255336	NP_031386	A	T	AT	benign
rs2255543	NP_000178	H	Q	HQ	probably damaging
rs2255607	NP_056449	G	S	GS	benign
rs2255703	NP_055918	M	V	MV	benign
rs2255991	NP_036545	R	W	RW	possibly damaging
rs2256100	NP_478107	P	L	PL	benign
rs2256100	NP_478114	P	L	PL	benign
rs2256100	NP_478108	P	L	PL	probably damaging

rs2256238	NP_005648	P	L	PL	probably damaging
rs2256408	XP_058513	R	H	RH	benign
rs2256721	NP_970615	V	G	VG	benign
rs2256734	NP_002209	M	I	MI	possibly damaging
rs2256871	NP_000762	H	R	HR	probably damaging
rs2256979	XP_496887	G	W	GW	possibly damaging
rs2257020	NP_851321	T	A	TA	benign
rs2257167	NP_000620	V	L	VL	benign
rs2257205	NP_060233	R	H	RH	benign
rs2257212	NP_066568	L	F	LF	benign
rs2257295	NP_067018	V	I	VI	benign
rs2257401	NP_000756	T	R	TR	benign
rs2257440	NP_116575	C	R	CR	possibly damaging
rs2257505	NP_714917	T	S	TS	benign
rs2257573	XP_497069	A	E	AE	benign
rs2257596	XP_375931	N	D	ND	benign
rs2257858	NP_775808	K	R	KR	benign
rs2257858	XP_371925	R	K	RK	benign
rs2257859	NP_775808	D	N	DN	benign
rs2257859	XP_371925	N	D	ND	benign
rs2257861	XP_371925	L	S	LS	benign
rs2257861	NP_775808	S	L	SL	benign
rs2257936	NP_055427	S	L	SL	benign
rs2258139	NP_982283	L	P	LP	benign
rs2258139	NP_077719	P	L	PL	benign
rs2258218	NP_000583	G	D	GD	possibly damaging
rs2258218	NP_001002029	G	D	GD	possibly damaging
rs2258425	NP_003543	Q	R	QR	benign
rs2258470	NP_859063	R	H	RH	possibly damaging
rs2258495	NP_003543	T	M	TM	benign
rs2258557	NP_076415	E	G	EG	possibly damaging
rs2258689	NP_058519	H	Y	HY	benign
rs2258704	NP_851421	R	Q	RQ	benign
rs2258704	NP_851422	R	Q	RQ	benign
rs2258704	NP_055818	R	Q	RQ	benign
rs2258704	XP_496064	R	Q	RQ	benign
rs2258957	NP_055474	R	Q	RQ	benign
rs2258977	XP_496159	V	A	VA	benign
rs2258983	NP_055256	A	E	AE	possibly damaging
rs2259102	NP_004523	I	M	IM	benign
rs2259102	NP_612154	I	M	IM	benign
rs2259292	NP_004523	D	G	DG	possibly damaging
rs2259292	NP_612154	D	G	DG	possibly damaging
rs2259332	NP_620125	A	V	AV	benign
rs2259332	NP_997193	V	A	VA	benign
rs2259527	XP_292982	D	N	DN	benign



rs2259528	XP_292982	S	T	ST	benign
rs2259593	NP_004671	S	I	SI	benign
rs2259593	NP_733841	S	I	SI	benign
rs2259684	XP_496900	R	G	RG	possibly damaging
rs2260034	XP_497240	R	Q	RQ	benign
rs2260335	NP_060375	A	T	AT	benign
rs2260545	NP_065178	R	Q	RQ	benign
rs2260655	NP_056348	A	T	AT	benign
rs2261015	XP_496891	G	V	GV	probably damaging
rs2261015	NP_060734	G	V	GV	probably damaging
rs2261144	NP_000755	M	T	MT	benign
rs2261144	NP_085079	M	T	MT	probably damaging
rs2261212	XP_290401	P	L	PL	benign
rs2261212	XP_496895	L	P	LP	probably damaging
rs2261398	NP_997195	S	G	SG	benign
rs2261757	XP_376101	A	T	AT	benign
rs2261758	XP_376101	E	K	EK	benign
rs2261816	NP_954586	K	E	KE	benign
rs2261835	XP_376554	S	A	SA	benign
rs2262065	NP_036444	K	E	KE	benign
rs2266607	NP_002425	Y	H	YH	benign
rs2266631	NP_000837	V	A	VA	benign
rs2266633	NP_000844	D	N	DN	benign
rs2266635	NP_000844	A	T	AT	benign
rs2266637	NP_000844	V	I	VI	benign
rs2266690	NP_001230	V	A	VA	benign
rs2266691	NP_001230	K	R	KR	benign
rs2266780	NP_008825	E	G	EG	benign
rs2266782	NP_008825	E	K	EK	benign
rs2266879	NP_005384	V	I	VI	benign
rs2266988	NP_006106	W	R	WR	probably damaging
rs2267161	NP_004852	V	M	VM	benign
rs2267586	NP_008931	S	A	SA	benign
rs2269371	NP_002901	D	G	DG	possibly damaging
rs2269383	NP_689453	G	D	GD	probably damaging
rs2269383	NP_689452	G	D	GD	probably damaging
rs2269409	NP_068768	I	M	IM	benign
rs2269428	NP_061978	P	H	PH	benign
rs2269429	NP_061978	G	S	GS	possibly damaging
rs2269432	NP_036323	R	W	RW	possibly damaging
rs2269452	NP_001431	L	P	LP	possibly damaging
rs2269495	NP_077285	V	A	VA	benign
rs2269497	NP_937870	N	S	NS	benign
rs2269497	NP_940832	N	S	NS	benign
rs2269497	NP_002917	N	S	NS	benign
rs2269497	NP_937873	N	S	NS	benign

rs2269497	NP_940989	N	S	NS	benign
rs2269529	NP_002464	I	V	IV	benign
rs2269548	NP_061830	S	F	SF	benign
rs2269611	NP_005444	G	E	GE	possibly damaging
rs2269619	NP_660157	E	A	EA	possibly damaging
rs2269714	NP_001754	I	T	IT	benign
rs2269715	NP_001754	W	C	WC	probably damaging
rs2269782	XP_372616	N	S	NS	benign
rs2269782	XP_497491	N	S	NS	benign
rs2269859	NP_056330	V	I	VI	benign
rs2269961	NP_777635	R	H	RH	possibly damaging
rs2269966	NP_061330	S	T	ST	benign
rs2269970	NP_006339	L	F	LF	benign
rs2269970	NP_859422	L	F	LF	benign
rs2270004	NP_689481	N	S	NS	benign
rs2270090	NP_061980	G	R	GR	possibly damaging
rs2270182	NP_006166	N	I	NI	possibly damaging
rs2270182	NP_932326	N	I	NI	possibly damaging
rs2270191	NP_054789	V	M	VM	benign
rs2270234	NP_067053	P	A	PA	probably damaging
rs2270234	NP_733751	P	A	PA	probably damaging
rs2270253	NP_065943	V	A	VA	benign
rs2270286	NP_077014	W	S	WS	probably damaging
rs2270439	NP_003930	P	H	PH	possibly damaging
rs2270439	NP_378663	P	H	PH	possibly damaging
rs2270493	NP_689670	T	S	TS	benign
rs2270495	NP_689670	G	R	GR	benign
rs2270515	NP_055447	R	Q	RQ	benign
rs2270518	NP_981956	L	F	LF	benign
rs2270523	NP_001861	A	S	AS	benign
rs2270565	NP_068605	M	L	ML	benign
rs2270569	NP_071737	V	I	VI	benign
rs2270569	NP_878906	V	I	VI	benign
rs2270569	NP_878905	V	I	VI	benign
rs2270577	NP_055285	P	R	PR	probably damaging
rs2270581	NP_005328	S	L	SL	possibly damaging
rs2270627	NP_006135	W	L	WL	probably damaging
rs2270637	NP_003044	S	T	ST	benign
rs2270641	NP_003044	T	P	TP	benign
rs2270655	NP_758454	Q	H	QH	benign
rs2270716	NP_061937	L	V	LV	benign
rs2270724	NP_061937	S	C	SC	possibly damaging
rs2270738	NP_005370	F	L	FL	probably damaging
rs2270802	XP_371783	E	A	EA	benign
rs2270802	NP_775934	E	A	EA	benign
rs2270812	NP_060342	P	L	PL	benign

rs2270877	XP_035825	G	R	GR	benign
rs2270889	NP_055693	R	Q	RQ	benign
rs2270891	NP_055693	V	L	VL	benign
rs2270898	NP_004937	T	S	TS	benign
rs2270915	NP_000899	N	D	ND	benign
rs2270927	XP_043493	T	S	TS	possibly damaging
rs2270941	NP_055290	S	N	SN	benign
rs2270945	NP_003314	E	K	EK	benign
rs2270950	NP_005206	H	L	HL	probably damaging
rs2270962	NP_060764	C	Y	CY	benign
rs2270968	NP_064551	P	H	PH	benign
rs2270976	NP_060595	V	I	VI	benign
rs2271001	NP_061901	K	R	KR	benign
rs2271011	NP_031374	D	G	DG	benign
rs2271023	NP_004053	H	Y	HY	possibly damaging
rs2271024	NP_004053	L	F	LF	benign
rs2271038	NP_659429	T	I	TI	benign
rs2271041	NP_001289	E	K	EK	benign
rs2271042	NP_005206	L	R	LR	possibly damaging
rs2271051	XP_290592	V	M	VM	benign
rs2271075	NP_036564	N	S	NS	benign
rs2271077	NP_473451	H	Y	HY	possibly damaging
rs2271087	NP_003232	E	D	ED	benign
rs2271092	NP_001639	E	K	EK	benign
rs2271111	NP_079216	Q	R	QR	benign
rs2271129	NP_061193	G	R	GR	probably damaging
rs2271129	NP_665899	G	R	GR	probably damaging
rs2271129	NP_665900	G	R	GR	probably damaging
rs2271129	NP_665898	G	R	GR	probably damaging
rs2271130	NP_061193	A	D	AD	benign
rs2271130	NP_665899	A	D	AD	benign
rs2271130	NP_665900	A	D	AD	benign
rs2271130	NP_665898	A	D	AD	benign
rs2271188	NP_001973	R	H	RH	benign
rs2271207	NP_055665	I	V	IV	benign
rs2271211	NP_055059	V	M	VM	benign
rs2271232	NP_954590	R	H	RH	benign
rs2271232	NP_059993	R	H	RH	benign
rs2271233	NP_444515	V	I	VI	benign
rs2271251	NP_114033	A	G	AG	benign
rs2271251	NP_114034	A	G	AG	benign
rs2271251	NP_114035	A	G	AG	benign
rs2271251	NP_002365	A	G	AG	benign
rs2271255	NP_005397	K	E	KE	benign
rs2271260	NP_005594	R	H	RH	possibly damaging
rs2271272	NP_055852	E	K	EK	benign

rs2271275	NP_061172	A	T	AT	benign
rs2271284	NP_057726	E	K	EK	benign
rs2271290	NP_037373	E	G	EG	possibly damaging
rs2271291	NP_037373	S	C	SC	benign
rs2271298	NP_061938	L	V	LV	benign
rs2271336	NP_054859	T	M	TM	benign
rs2271376	NP_620712	I	T	IT	possibly damaging
rs2271381	NP_002340	E	D	ED	benign
rs2271395	NP_060647	T	A	TA	benign
rs2271412	NP_612402	A	D	AD	benign
rs2271416	NP_002637	R	Q	RQ	benign
rs2271437	NP_004203	L	W	LW	possibly damaging
rs2271458	NP_665702	N	H	NH	benign
rs2271460	NP_001072	F	C	FC	probably damaging
rs2271462	NP_001072	G	S	GS	possibly damaging
rs2271488	NP_919269	D	N	DN	benign
rs2271496	NP_060169	V	M	VM	benign
rs2271502	NP_079199	V	A	VA	benign
rs2271503	NP_079199	P	L	PL	probably damaging
rs2271505	NP_079199	M	I	MI	benign
rs2271570	NP_775758	S	L	SL	benign
rs2271589	NP_443750	Y	H	YH	benign
rs2271615	NP_071800	A	G	AG	benign
rs2271615	NP_064593	A	G	AG	benign
rs2271627	NP_001738	R	H	RH	possibly damaging
rs2271637	NP_060034	L	V	LV	benign
rs2271652	NP_001763	V	L	VL	benign
rs2271694	NP_116186	D	N	DN	benign
rs2271703	NP_062824	R	G	RG	benign
rs2271704	NP_775760	P	L	PL	probably damaging
rs2271708	NP_000578	C	R	CR	probably damaging
rs2271725	NP_036343	Q	K	QK	benign
rs2271733	NP_038463	D	E	DE	benign
rs2271761	NP_689733	S	G	SG	benign
rs2271777	NP_036250	H	Y	HY	possibly damaging
rs2271796	NP_004715	I	M	IM	benign
rs2271815	NP_631917	R	C	RC	possibly damaging
rs2271822	NP_004078	A	V	AV	possibly damaging
rs2271841	NP_597723	E	Q	EQ	possibly damaging
rs2271848	NP_005447	T	I	TI	benign
rs2271849	XP_096472	Q	H	QH	benign
rs2271851	NP_689525	R	C	RC	probably damaging
rs2271885	NP_004687	N	H	NH	benign
rs2271900	NP_073620	S	N	SN	benign
rs2271904	NP_009196	D	G	DG	probably damaging
rs2271933	NP_001516	I	V	IV	benign

rs2271980	NP_006288	V	M	VM	benign
rs2271989	XP_371662	L	F	LF	benign
rs2271990	XP_371662	V	I	VI	benign
rs2272011	NP_003684	A	V	AV	benign
rs2272011	NP_663325	A	V	AV	benign
rs2272011	NP_663327	A	V	AV	benign
rs2272022	NP_005935	P	T	PT	benign
rs2272058	XP_114222	V	I	VI	benign
rs2272070	NP_919224	R	W	RW	probably damaging
rs2272070	NP_919303	R	W	RW	probably damaging
rs2272070	NP_919304	R	W	RW	probably damaging
rs2272070	NP_004793	R	W	RW	probably damaging
rs2272094	NP_062550	R	K	RK	benign
rs2272095	NP_038474	L	V	LV	benign
rs2272193	NP_690042	A	V	AV	benign
rs2272263	NP_061167	T	P	TP	benign
rs2272296	NP_003569	T	I	TI	benign
rs2272330	NP_004659	Q	H	QH	possibly damaging
rs2272343	NP_036579	T	P	TP	benign
rs2272428	NP_006421	I	V	IV	benign
rs2272487	NP_115719	A	S	AS	benign
rs2272495	NP_060641	A	V	AV	benign
rs2272522	NP_006605	L	F	LF	benign
rs2272571	NP_057323	G	R	GR	benign
rs2272583	XP_495998	F	S	FS	benign
rs2272593	NP_004629	P	L	PL	probably damaging
rs2272593	NP_542417	P	L	PL	probably damaging
rs2272605	NP_002199	A	S	AS	benign
rs2272606	NP_002199	Q	R	QR	benign
rs2272610	NP_055444	T	S	TS	benign
rs2272629	NP_057317	V	M	VM	benign
rs2272639	NP_079517	N	S	NS	possibly damaging
rs2272641	NP_004892	K	E	KE	benign
rs2272662	NP_570901	A	T	AT	benign
rs2272665	NP_078831	Q	H	QH	benign
rs2272665	NP_036294	Q	H	QH	benign
rs2272704	NP_005174	A	V	AV	benign
rs2272720	NP_003961	L	V	LV	benign
rs2272722	NP_077271	I	V	IV	benign
rs2272736	NP_001547	R	Q	RQ	benign
rs2272739	NP_060286	D	Y	DY	possibly damaging
rs2272753	NP_055932	S	T	ST	benign
rs2272761	XP_114618	V	M	VM	benign
rs2272792	NP_444281	R	Q	RQ	benign
rs2272797	XP_371326	V	I	VI	benign
rs2272829	NP_203744	P	L	PL	probably damaging

rs2272830	NP_061881	G	R	GR	probably damaging
rs2272837	NP_061868	Q	R	QR	benign
rs2272843	NP_061868	A	E	AE	benign
rs2272846	NP_113642	T	N	TN	benign
rs2272852	NP_113642	E	K	EK	benign
rs2272859	NP_005151	V	M	VM	benign
rs2272881	NP_055568	R	H	RH	possibly damaging
rs2272898	NP_478072	E	Q	EQ	benign
rs2272902	NP_036397	T	M	TM	benign
rs2272906	NP_005814	V	M	VM	benign
rs2272920	NP_060656	A	S	AS	benign
rs2272925	NP_001513	Q	H	QH	benign
rs2272938	NP_060476	R	S	RS	benign
rs2272955	NP_852611	M	T	MT	benign
rs2272962	NP_942094	E	D	ED	benign
rs2272994	NP_075558	C	Y	CY	probably damaging
rs2272996	NP_004657	N	S	NS	possibly damaging
rs2273056	NP_057736	S	T	ST	benign
rs2273058	NP_057736	F	L	FL	benign
rs2273063	NP_659464	R	H	RH	benign
rs2273073	NP_001191	S	A	SA	benign
rs2273074	NP_001191	A	T	AT	possibly damaging
rs2273075	NP_002522	V	I	VI	benign
rs2273086	NP_004767	G	S	GS	possibly damaging
rs2273137	NP_006383	I	V	IV	benign
rs2273148	NP_066363	T	A	TA	benign
rs2273171	NP_055389	N	S	NS	benign
rs2273183	NP_004230	E	A	EA	possibly damaging
rs2273186	NP_004230	E	A	EA	possibly damaging
rs2273204	NP_002763	E	K	EK	benign
rs2273221	XP_291344	Q	R	QR	benign
rs2273238	XP_376519	T	M	TM	benign
rs2273268	NP_000027	E	K	EK	benign
rs2273285	NP_000293	A	S	AS	benign
rs2273343	NP_631947	H	R	HR	probably damaging
rs2273343	NP_006601	H	R	HR	probably damaging
rs2273346	NP_006601	V	A	VA	benign
rs2273367	XP_371257	R	K	RK	benign
rs2273373	NP_062539	T	I	TI	possibly damaging
rs2273411	NP_006199	N	S	NS	possibly damaging
rs2273430	NP_031387	G	V	GV	possibly damaging
rs2273499	NP_783202	V	M	VM	benign
rs2273499	NP_060679	V	M	VM	benign
rs2273510	NP_056254	P	L	PL	probably damaging
rs2273526	NP_116781	H	Q	HQ	probably damaging
rs2273535	NP_003591	F	I	FI	benign

rs2273535	NP_940835	F	I	FI	benign
rs2273535	NP_940836	F	I	FI	benign
rs2273535	NP_940837	F	I	FI	benign
rs2273535	NP_940838	F	I	FI	benign
rs2273535	NP_940839	F	I	FI	benign
rs2273549	NP_060863	R	K	RK	benign
rs2273566	NP_068759	A	V	AV	benign
rs2273607	NP_003827	V	M	VM	benign
rs2273613	NP_006286	N	S	NS	benign
rs2273621	NP_065228	R	G	RG	probably damaging
rs2273633	XP_377338	G	R	GR	benign
rs2273660	NP_060205	Y	C	YC	probably damaging
rs2273664	NP_060205	R	H	RH	benign
rs2273668	NP_055269	L	I	LI	benign
rs2273697	NP_000383	V	I	VI	benign
rs2273709	NP_055904	H	P	HP	benign
rs2273730	NP_037421	R	T	RT	benign
rs2273731	NP_037421	P	S	PS	benign
rs2273783	NP_005050	P	Q	PQ	possibly damaging
rs2273783	NP_604390	P	Q	PQ	probably damaging
rs2273783	NP_008842	P	Q	PQ	probably damaging
rs2273800	XP_496006	H	R	HR	benign
rs2273801	XP_496006	K	R	KR	benign
rs2273821	NP_054880	R	Q	RQ	benign
rs2273837	NP_054764	R	W	RW	possibly damaging
rs2273863	NP_006490	D	Y	DY	benign
rs2273863	NP_963839	D	Y	DY	benign
rs2273872	NP_005637	N	S	NS	benign
rs2273880	NP_112196	M	T	MT	benign
rs2273906	XP_375105	P	S	PS	possibly damaging
rs2273914	NP_001940	E	D	ED	benign
rs2273916	NP_055438	P	S	PS	possibly damaging
rs2273947	NP_932349	L	M	LM	possibly damaging
rs2273959	NP_536737	V	M	VM	benign
rs2273970	NP_004472	V	M	VM	benign
rs2273980	NP_060045	H	R	HR	benign
rs2273983	NP_060598	N	S	NS	benign
rs2273986	NP_057593	S	P	SP	possibly damaging
rs2274016	NP_003834	R	K	RK	benign
rs2274016	NP_659001	R	K	RK	benign
rs2274059	NP_005757	H	R	HR	benign
rs2274064	NP_000424	K	R	KR	benign
rs2274067	NP_689592	V	L	VL	benign
rs2274068	XP_170749	T	A	TA	benign
rs2274073	NP_891556	V	M	VM	benign
rs2274083	NP_003995	E	G	EG	benign

rs2274084	NP_003995	V	I	VI	benign
rs2274110	NP_877428	K	R	KR	benign
rs2274110	NP_060988	K	R	KR	benign
rs2274136	NP_005115	A	T	AT	benign
rs2274139	NP_612428	R	I	RI	probably damaging
rs2274158	NP_056219	N	K	NK	benign
rs2274159	NP_056219	V	A	VA	benign
rs2274188	NP_036315	V	L	VL	benign
rs2274217	NP_006532	P	S	PS	benign
rs2274254	NP_004249	R	H	RH	benign
rs2274260	NP_057062	T	M	TM	possibly damaging
rs2274268	NP_115750	A	P	AP	benign
rs2274271	NP_055565	E	G	EG	benign
rs2274285	NP_113619	S	N	SN	benign
rs2274305	NP_057440	G	S	GS	benign
rs2274315	NP_005911	P	S	PS	possibly damaging
rs2274327	NP_001206	T	M	TM	benign
rs2274328	NP_001206	M	L	ML	benign
rs2274329	NP_001206	G	A	GA	possibly damaging
rs2274333	NP_001206	G	S	GS	benign
rs2274367	NP_563578	E	K	EK	benign
rs2274367	NP_563579	E	K	EK	benign
rs2274367	NP_002829	E	K	EK	benign
rs2274407	NP_005836	K	N	KN	benign
rs2274419	NP_005583	M	I	MI	benign
rs2274420	NP_002429	Q	R	QR	benign
rs2274432	NP_443197	G	D	GD	benign
rs2274435	NP_060658	G	D	GD	benign
rs2274467	NP_055478	T	N	TN	benign
rs2274496	NP_002520	G	S	GS	benign
rs2274516	NP_000278	V	I	VI	benign
rs2274531	NP_005805	D	N	DN	benign
rs2274540	XP_371254	G	S	GS	benign
rs2274567	NP_000564	H	R	HR	benign
rs2274567	NP_000642	H	R	HR	possibly damaging
rs2274616	NP_003628	R	Q	RQ	benign
rs2274618	NP_003628	R	H	RH	benign
rs2274648	NP_003820	G	R	GR	possibly damaging
rs2274654	XP_088578	V	A	VA	benign
rs2274658	NP_005579	V	L	VL	benign
rs2274670	NP_073597	Q	H	QH	benign
rs2274702	XP_371338	W	G	WG	probably damaging
rs2274703	XP_371338	R	C	RC	probably damaging
rs2274718	NP_031394	R	H	RH	possibly damaging
rs2274736	NP_008970	A	V	AV	benign
rs2274741	XP_374779	F	L	FL	benign



rs2274750	NP_002151	A	T	AT	benign
rs2274756	NP_004985	R	Q	RQ	benign
rs2274797	NP_037528	P	L	PL	possibly damaging
rs2274802	NP_006438	Q	H	QH	benign
rs2274810	XP_038664	E	K	EK	benign
rs2274827	NP_005064	R	C	RC	probably damaging
rs2274828	NP_005064	V	I	VI	benign
rs2274848	NP_113647	T	A	TA	benign
rs2274850	NP_000867	G	R	GR	possibly damaging
rs2274866	NP_002495	P	Q	PQ	possibly damaging
rs2274870	NP_056284	R	Q	RQ	possibly damaging
rs2274896	NP_056393	R	Q	RQ	possibly damaging
rs2274904	NP_660301	F	C	FC	benign
rs2274907	NP_060095	V	D	VD	possibly damaging
rs2274911	NP_683766	S	P	SP	benign
rs2274922	NP_060132	N	D	ND	benign
rs2274924	NP_060132	K	E	KE	benign
rs2274934	NP_005551	D	N	DN	benign
rs2274961	NP_001846	P	L	PL	probably damaging
rs2274974	NP_005948	G	E	GE	probably damaging
rs2274976	NP_005948	Q	R	QR	benign
rs2275010	NP_005475	I	T	IT	possibly damaging
rs2275014	NP_878918	A	V	AV	benign
rs2275047	NP_068378	G	A	GA	benign
rs2275060	XP_166125	S	L	SL	benign
rs2275137	NP_006050	P	H	PH	probably damaging
rs2275140	NP_006050	S	G	SG	benign
rs2275166	NP_000076	E	K	EK	benign
rs2275237	NP_848514	P	L	PL	possibly damaging
rs2275237	NP_001659	P	L	PL	possibly damaging
rs2275249	NP_004275	S	C	SC	possibly damaging
rs2275253	NP_970615	I	V	IV	benign
rs2275254	NP_970615	F	S	FS	probably damaging
rs2275260	NP_001490	I	V	IV	benign
rs2275272	NP_002851	T	I	TI	possibly damaging
rs2275289	NP_671488	R	W	RW	possibly damaging
rs2275303	NP_065859	G	S	GS	benign
rs2275307	NP_065859	A	T	AT	benign
rs2275344	NP_009200	R	Q	RQ	benign
rs2275349	NP_000665	V	L	VL	benign
rs2275363	NP_002876	T	A	TA	benign
rs2275381	NP_115805	R	W	RW	probably damaging
rs2275402	NP_055862	F	L	FL	possibly damaging
rs2275408	NP_057575	L	V	LV	benign
rs2275438	NP_660289	T	R	TR	benign
rs2275443	NP_689416	M	I	MI	benign

rs2275445	NP_057068	A	P	AP	benign
rs2275462	NP_055978	F	L	FL	benign
rs2275477	NP_659484	G	R	GR	possibly damaging
rs2275481	NP_002861	N	S	NS	benign
rs2275531	NP_002635	G	S	GS	benign
rs2275554	NP_689540	Q	R	QR	benign
rs2275558	NP_002576	G	S	GS	benign
rs2275580	NP_055994	S	G	SG	benign
rs2275586	NP_071757	G	A	GA	possibly damaging
rs2275591	NP_079160	L	R	LR	possibly damaging
rs2275592	NP_056499	L	P	LP	benign
rs2275596	NP_742108	P	S	PS	benign
rs2275596	NP_742111	P	S	PS	possibly damaging
rs2275596	NP_742110	P	S	PS	possibly damaging
rs2275601	NP_919424	T	A	TA	benign
rs2275603	NP_116127	S	G	SG	benign
rs2275660	NP_006428	A	T	AT	benign
rs2275687	XP_375853	E	G	EG	benign
rs2275689	XP_375853	N	S	NS	benign
rs2275697	NP_005067	A	T	AT	benign
rs2275720	NP_001100	L	F	LF	benign
rs2275725	NP_001100	R	W	RW	possibly damaging
rs2275768	NP_057205	F	V	FV	benign
rs2275774	XP_374765	K	R	KR	benign
rs2275799	NP_006166	A	T	AT	benign
rs2275799	NP_932326	A	T	AT	benign
rs2275801	NP_898868	V	A	VA	benign
rs2275801	NP_898869	V	A	VA	benign
rs2275801	NP_036540	V	A	VA	benign
rs2275807	NP_055717	R	Q	RQ	benign
rs2275807	NP_892118	R	Q	RQ	possibly damaging
rs2275824	XP_375682	L	I	LI	benign
rs2275831	XP_375682	A	V	AV	benign
rs2275839	NP_689705	W	R	WR	probably damaging
rs2275848	NP_004139	D	A	DA	possibly damaging
rs2275857	NP_006171	A	P	AP	benign
rs2275866	NP_005549	T	S	TS	benign
rs2275902	XP_371262	A	G	AG	benign
rs2275950	NP_115977	K	E	KE	possibly damaging
rs2275984	NP_004112	R	K	RK	benign
rs2275992	NP_739574	S	G	SG	benign
rs2275992	NP_444251	S	G	SG	benign
rs2275996	NP_002171	E	K	EK	benign
rs2276036	NP_073733	P	S	PS	benign
rs2276038	NP_002550	A	V	AV	benign
rs2276050	NP_938057	M	V	MV	probably damaging

rs2276053	NP_055437	R	K	RK	benign
rs2276054	NP_055437	S	I	SI	benign
rs2276081	NP_006491	G	S	GS	benign
rs2276089	NP_112222	L	S	LS	benign
rs2276092	XP_113962	V	I	VI	benign
rs2276093	NP_002418	A	V	AV	benign
rs2276102	NP_075069	R	G	RG	benign
rs2276113	NP_892007	K	R	KR	benign
rs2276118	NP_112481	Q	R	QR	benign
rs2276118	NP_057450	Q	R	QR	benign
rs2276211	NP_031371	S	L	SL	benign
rs2276231	NP_057514	R	S	RS	possibly damaging
rs2276231	NP_710148	R	S	RS	possibly damaging
rs2276231	NP_710149	R	S	RS	possibly damaging
rs2276282	NP_000251	E	K	EK	possibly damaging
rs2276288	NP_000251	C	S	CS	benign
rs2276295	NP_938149	R	Q	RQ	benign
rs2276295	NP_055425	R	Q	RQ	benign
rs2276295	NP_938148	R	Q	RQ	possibly damaging
rs2276296	NP_938149	R	W	RW	probably damaging
rs2276296	NP_055425	R	W	RW	probably damaging
rs2276296	NP_938148	R	W	RW	probably damaging
rs2276314	NP_113634	A	T	AT	benign
rs2276331	NP_004351	L	V	LV	probably damaging
rs2276348	NP_079045	R	H	RH	benign
rs2276360	NP_060631	V	L	VL	benign
rs2276374	NP_073588	T	M	TM	benign
rs2276403	NP_002423	H	Y	HY	possibly damaging
rs2276405	NP_004824	E	K	EK	benign
rs2276409	XP_370660	P	S	PS	possibly damaging
rs2276415	NP_766627	G	S	GS	benign
rs2276427	NP_006542	V	A	VA	benign
rs2276444	NP_001124	T	S	TS	benign
rs2276449	XP_496518	P	L	PL	possibly damaging
rs2276634	NP_076990	Q	H	QH	benign
rs2276635	NP_076990	S	G	SG	benign
rs2276650	NP_644672	R	P	RP	possibly damaging
rs2276691	NP_071937	A	T	AT	benign
rs2276717	XP_035946	G	R	GR	probably damaging
rs2276724	NP_036322	S	G	SG	benign
rs2276724	NP_658989	S	G	SG	benign
rs2276742	NP_001448	V	M	VM	benign
rs2276749	NP_055482	M	I	MI	benign
rs2276752	NP_056014	A	T	AT	probably damaging
rs2276761	NP_443728	R	Q	RQ	benign
rs2276774	NP_061860	I	T	IT	benign

rs2276781	NP_061860	M	T	MT	benign
rs2276782	NP_061860	V	D	VD	probably damaging
rs2276790	NP_005920	R	W	RW	possibly damaging
rs2276800	NP_057015	P	L	PL	probably damaging
rs2276802	NP_055222	L	V	LV	benign
rs2276802	NP_741979	L	V	LV	benign
rs2276802	NP_741980	L	V	LV	benign
rs2276802	NP_741981	L	V	LV	benign
rs2276804	NP_000403	C	R	CR	probably damaging
rs2276806	NP_073600	M	V	MV	probably damaging
rs2276810	NP_000983	V	L	VL	benign
rs2276812	NP_690909	R	H	RH	benign
rs2276814	NP_002209	Q	L	QL	possibly damaging
rs2276833	NP_064548	I	T	IT	possibly damaging
rs2276853	NP_878905	W	R	WR	benign
rs2276853	NP_878906	W	R	WR	possibly damaging
rs2276853	NP_071737	R	W	RW	probably damaging
rs2276872	NP_937839	A	P	AP	benign
rs2276872	NP_005807	A	P	AP	benign
rs2276904	XP_042661	R	H	RH	benign
rs2276922	XP_496727	P	L	PL	probably damaging
rs2276924	XP_496727	H	R	HR	benign
rs2276932	XP_496719	M	V	MV	possibly damaging
rs2276970	NP_060170	M	V	MV	benign
rs2276973	NP_001050	K	R	KR	benign
rs2276976	NP_849155	F	C	FC	probably damaging
rs2276995	NP_079126	T	A	TA	benign
rs2277044	NP_079143	K	N	KN	benign
rs2277046	NP_001360	T	A	TA	benign
rs2277079	NP_116249	K	R	KR	benign
rs2277106	NP_071368	F	L	FL	probably damaging
rs2277106	NP_110437	F	L	FL	probably damaging
rs2277119	NP_057677	R	H	RH	possibly damaging
rs2277168	NP_073592	R	W	RW	probably damaging
rs2277170	NP_073592	L	F	LF	benign
rs2277240	NP_004397	P	S	PS	benign
rs2277244	NP_060049	H	Y	HY	benign
rs2277244	NP_015568	H	Y	HY	benign
rs2277244	NP_004397	H	Y	HY	possibly damaging
rs2277257	NP_060814	G	R	GR	benign
rs2277269	NP_932341	R	Q	RQ	benign
rs2277301	NP_663613	A	T	AT	benign
rs2277301	NP_065947	A	T	AT	benign
rs2277319	NP_079055	A	G	AG	benign
rs2277330	NP_002264	R	W	RW	benign
rs2277339	NP_000937	D	A	DA	probably damaging

rs2277413	NP_002855	V	A	VA	benign
rs2277415	NP_060886	P	S	PS	possibly damaging
rs2277447	NP_000044	E	K	EK	benign
rs2277476	XP_375067	W	G	WG	probably damaging
rs2277531	NP_079441	Q	E	QE	benign
rs2277549	NP_055087	R	H	RH	benign
rs2277552	NP_078781	R	H	RH	benign
rs2277553	NP_078781	K	N	KN	benign
rs2277577	NP_004204	R	G	RG	possibly damaging
rs2277577	NP_964014	R	G	RG	probably damaging
rs2277596	NP_149017	M	V	MV	possibly damaging
rs2277598	NP_149017	I	T	IT	possibly damaging
rs2277600	NP_004800	G	A	GA	possibly damaging
rs2277611	NP_054799	R	Q	RQ	benign
rs2277619	NP_036580	A	V	AV	benign
rs2277649	NP_060003	G	D	GD	probably damaging
rs2277658	NP_001363	Q	H	QH	possibly damaging
rs2277666	NP_653284	R	Q	RQ	benign
rs2277680	NP_071342	V	A	VA	benign
rs2277712	NP_055587	P	L	PL	probably damaging
rs2277714	NP_765975	H	Y	HY	possibly damaging
rs2277714	NP_765977	H	Y	HY	possibly damaging
rs2277714	NP_765978	H	Y	HY	possibly damaging
rs2277714	NP_006153	H	Y	HY	possibly damaging
rs2277716	XP_371116	K	R	KR	benign
rs2277754	NP_003191	G	R	GR	benign
rs2277759	NP_899069	P	L	PL	benign
rs2277759	NP_899067	P	L	PL	probably damaging
rs2277798	NP_061834	S	G	SG	benign
rs2277800	NP_061834	L	F	LF	benign
rs2277809	NP_004919	T	I	TI	benign
rs2277833	XP_036729	N	S	NS	benign
rs2277838	NP_005437	R	H	RH	benign
rs2277841	NP_079231	S	N	SN	benign
rs2277846	NP_113676	R	W	RW	probably damaging
rs2277848	NP_997400	R	H	RH	possibly damaging
rs2277849	NP_997400	L	F	LF	benign
rs2277901	NP_071375	Q	P	QP	benign
rs2277902	NP_071375	S	F	SF	benign
rs2277921	XP_371146	P	L	PL	possibly damaging
rs2277922	XP_371146	T	P	TP	possibly damaging
rs2277998	NP_999841	D	N	DN	benign
rs2277998	NP_999840	D	N	DN	benign
rs2278008	NP_055139	E	K	EK	benign
rs2278022	XP_375375	S	P	SP	possibly damaging
rs2278023	XP_375375	K	E	KE	benign

rs2278106	NP_004431	P	S	PS	benign
rs2278107	NP_004431	I	V	IV	benign
rs2278154	XP_058931	Q	R	QR	benign
rs2278161	NP_060705	Y	H	YH	probably damaging
rs2278240	NP_705838	G	R	GR	possibly damaging
rs2278287	NP_954672	R	Q	RQ	benign
rs2278287	NP_057669	R	Q	RQ	benign
rs2278329	NP_003990	D	N	DN	benign
rs2278339	NP_005206	I	M	IM	benign
rs2278358	NP_742066	R	K	RK	benign
rs2278370	NP_001438	G	S	GS	benign
rs2278371	NP_001438	V	M	VM	benign
rs2278415	NP_067645	R	S	RS	benign
rs2278420	NP_067645	L	P	LP	benign
rs2278426	NP_061157	R	W	RW	possibly damaging
rs2278428	NP_004820	K	Q	KQ	benign
rs2278542	NP_000883	A	E	AE	benign
rs2278586	NP_683765	L	V	LV	benign
rs2278692	NP_009049	D	E	DE	benign
rs2278831	NP_003821	F	S	FS	benign
rs2278842	NP_057196	V	I	VI	benign
rs2278868	NP_003717	S	G	SG	benign
rs2278911	NP_065941	R	Q	RQ	benign
rs2278943	NP_002817	A	S	AS	benign
rs2278970	NP_000490	A	G	AG	benign
rs2279027	XP_376314	S	P	SP	probably damaging
rs2279102	XP_209918	P	R	PR	probably damaging
rs2279103	NP_004706	T	M	TM	benign
rs2279103	NP_430255	T	M	TM	benign
rs2279105	NP_848590	T	M	TM	benign
rs2279112	NP_002505	R	Q	RQ	benign
rs2279218	NP_055704	P	L	PL	probably damaging
rs2279219	NP_055704	I	M	IM	benign
rs2279252	NP_714928	R	Q	RQ	benign
rs2279269	NP_115536	P	S	PS	benign
rs2279279	NP_036577	V	L	VL	benign
rs2279333	NP_078896	S	N	SN	benign
rs2279343	NP_000758	K	R	KR	possibly damaging
rs2279374	NP_536739	P	L	PL	probably damaging
rs2279381	NP_001437	T	M	TM	benign
rs2279542	NP_068367	P	R	PR	benign
rs2279542	NP_057435	P	R	PR	benign
rs2279542	NP_068368	P	R	PR	benign
rs2279542	NP_068369	P	R	PR	probably damaging
rs2279574	NP_001937	V	L	VL	benign
rs2279574	NP_073143	V	L	VL	benign

rs2279587	NP_852478	V	I	VI	benign
rs2279961	NP_872372	T	S	TS	benign
rs2280016	NP_057726	D	G	DG	possibly damaging
rs2280084	NP_079199	R	L	RL	benign
rs2280085	NP_079199	P	A	PA	benign
rs2280090	NP_694882	P	S	PS	probably damaging
rs2280090	NP_079496	P	S	PS	probably damaging
rs2280091	NP_694882	M	T	MT	possibly damaging
rs2280091	NP_079496	M	T	MT	possibly damaging
rs2280099	NP_663761	H	R	HR	probably damaging
rs2280132	NP_000538	A	S	AS	benign
rs2280132	NP_783650	A	S	AS	benign
rs2280132	NP_783651	A	S	AS	benign
rs2280132	NP_783652	A	S	AS	benign
rs2280133	NP_004305	R	H	RH	benign
rs2280134	NP_004305	P	L	PL	probably damaging
rs2280205	NP_064425	P	L	PL	benign
rs2280205	NP_001001290	P	L	PL	benign
rs2280250	NP_079179	G	E	GE	possibly damaging
rs2280279	NP_055874	A	T	AT	benign
rs2280289	NP_071894	L	P	LP	benign
rs2280490	XP_113912	S	L	SL	possibly damaging
rs2280560	NP_919260	P	S	PS	probably damaging
rs2280786	NP_663629	H	R	HR	possibly damaging
rs2280838	NP_570901	T	A	TA	benign
rs2280843	NP_057474	I	T	IT	possibly damaging
rs2280896	NP_003961	L	F	LF	benign
rs2280962	NP_443189	T	I	TI	benign
rs2281042	NP_115896	K	N	KN	benign
rs2281066	XP_496342	S	C	SC	benign
rs2281180	NP_996991	H	Q	HQ	benign
rs2281180	NP_004310	H	Q	HQ	benign
rs2281192	NP_057510	S	L	SL	benign
rs2281209	NP_031393	G	S	GS	benign
rs2281209	NP_057951	G	S	GS	benign
rs2281278	NP_006640	V	A	VA	benign
rs2281534	NP_542189	L	Q	LQ	benign
rs2281571	XP_050478	D	G	DG	possibly damaging
rs2281705	NP_005597	S	R	SR	benign
rs2281726	NP_060598	S	G	SG	benign
rs2281796	NP_660357	Y	C	YC	probably damaging
rs2281820	NP_002409	V	A	VA	benign
rs2281878	NP_079162	A	S	AS	benign
rs2281891	NP_000763	T	M	TM	possibly damaging
rs2281929	NP_079500	T	A	TA	benign
rs2281939	NP_056200	T	A	TA	benign

rs2281959	XP_043739	T	N	TN	benign
rs2281982	NP_002044	K	R	KR	benign
rs2282143	NP_694857	P	L	PL	benign
rs2282143	NP_003048	P	L	PL	probably damaging
rs2282164	NP_002403	W	C	WC	probably damaging
rs2282192	NP_057565	V	M	VM	benign
rs2282236	NP_079493	I	T	IT	benign
rs2282236	NP_570970	T	I	TI	benign
rs2282238	NP_004410	E	D	ED	benign
rs2282258	XP_380172	G	V	GV	probably damaging
rs2282284	NP_443171	N	S	NS	benign
rs2282406	NP_954589	I	M	IM	benign
rs2282406	NP_689917	I	M	IM	benign
rs2282440	XP_375712	T	I	TI	benign
rs2282488	NP_878907	D	N	DN	benign
rs2282498	XP_374893	V	A	VA	benign
rs2282532	NP_004283	P	S	PS	possibly damaging
rs2282537	NP_055167	R	K	RK	benign
rs2282556	NP_005903	G	R	GR	possibly damaging
rs2282580	NP_116184	R	Q	RQ	benign
rs2282602	NP_777587	A	V	AV	benign
rs2282632	XP_290811	N	S	NS	benign
rs2282683	NP_001481	I	V	IV	benign
rs2283432	NP_060663	S	C	SC	benign
rs2285023	NP_001796	D	E	DE	benign
rs2285215	XP_040527	P	L	PL	probably damaging
rs2285302	NP_006188	A	D	AD	possibly damaging
rs2285347	XP_290517	A	V	AV	benign
rs2285348	NP_078799	C	W	CW	probably damaging
rs2285372	NP_055918	P	S	PS	benign
rs2285396	XP_208270	H	R	HR	benign
rs2285412	XP_049237	A	D	AD	benign
rs2285418	XP_290831	L	V	LV	benign
rs2285419	XP_290831	D	N	DN	benign
rs2285421	NP_008931	M	T	MT	benign
rs2285477	NP_002461	T	A	TA	benign
rs2285487	NP_065118	T	A	TA	benign
rs2285514	NP_055179	D	N	DN	benign
rs2285644	NP_000333	P	L	PL	possibly damaging
rs2285738	NP_620166	H	R	HR	benign
rs2285744	XP_371877	D	E	DE	benign
rs2285745	XP_496306	L	S	LS	benign
rs2285751	NP_060346	V	M	VM	benign
rs2285751	NP_919442	V	M	VM	benign
rs2285817	NP_056330	R	S	RS	benign
rs2285817	NP_775320	R	S	RS	benign



rs2285888	NP_076433	R	C	RC	benign
rs2285906	XP_290850	A	T	AT	benign
rs2285933	NP_006178	S	R	SR	benign
rs2285974	NP_060355	P	Q	PQ	benign
rs2285981	NP_000426	V	M	VM	benign
rs2285988	NP_057345	N	D	ND	benign
rs2285990	NP_060233	R	Q	RQ	benign
rs2286009	NP_055914	S	I	SI	benign
rs2286025	NP_076961	S	F	SF	benign
rs2286118	NP_071361	P	T	PT	probably damaging
rs2286122	XP_376720	A	P	AP	benign
rs2286160	NP_006400	V	I	VI	benign
rs2286199	NP_001052	A	T	AT	benign
rs2286199	NP_112246	A	T	AT	benign
rs2286323	NP_872307	M	T	MT	benign
rs2286394	NP_060176	S	F	SF	possibly damaging
rs2286471	XP_496111	P	S	PS	possibly damaging
rs2286472	XP_496111	D	A	DA	possibly damaging
rs2286520	NP_003584	R	W	RW	possibly damaging
rs2286612	NP_115720	G	C	GC	possibly damaging
rs2286624	NP_065174	R	L	RL	possibly damaging
rs2286653	NP_786924	A	T	AT	benign
rs2286662	NP_005534	T	A	TA	benign
rs2286672	NP_002654	C	R	CR	possibly damaging
rs2286677	NP_055219	V	I	VI	benign
rs2286734	NP_006166	A	S	AS	benign
rs2286734	NP_932326	A	S	AS	benign
rs2286735	NP_006166	A	V	AV	benign
rs2286735	NP_932326	A	V	AV	benign
rs2286771	XP_039169	R	W	RW	possibly damaging
rs2286786	NP_055951	G	R	GR	benign
rs2286838	NP_067083	S	R	SR	benign
rs2286866	NP_056002	W	C	WC	probably damaging
rs2286913	NP_113652	P	L	PL	possibly damaging
rs2286963	NP_001599	K	Q	KQ	benign
rs2286965	NP_063938	E	K	EK	benign
rs2287015	NP_060261	A	V	AV	benign
rs2287058	NP_079170	R	T	RT	possibly damaging
rs2287059	NP_079170	D	N	DN	benign
rs2287174	NP_149112	L	P	LP	benign
rs2287306	XP_371182	Q	R	QR	benign
rs2287345	NP_056516	V	L	VL	benign
rs2287351	NP_942131	R	W	RW	possibly damaging
rs2287351	NP_942134	R	W	RW	possibly damaging
rs2287351	NP_942136	R	W	RW	possibly damaging
rs2287359	NP_004924	A	S	AS	benign

rs2287384	XP_041116	M	V	MV	benign
rs2287450	XP_495917	V	E	VE	benign
rs2287499	NP_060551	R	G	RG	benign
rs2287546	NP_055521	E	D	ED	benign
rs2287558	NP_066964	I	V	IV	benign
rs2287562	XP_046685	S	L	SL	possibly damaging
rs2287579	NP_002653	V	M	VM	benign
rs2287617	NP_003733	R	K	RK	benign
rs2287622	NP_003733	V	A	VA	benign
rs2287669	NP_115515	G	S	GS	benign
rs2287679	NP_060495	L	P	LP	benign
rs2287714	NP_064594	G	S	GS	benign
rs2287749	NP_150377	G	D	GD	possibly damaging
rs2287780	NP_076915	R	C	RC	possibly damaging
rs2287780	NP_002445	R	C	RC	possibly damaging
rs2287790	XP_044632	V	I	VI	benign
rs2287798	NP_001160	A	P	AP	benign
rs2287803	NP_056534	G	R	GR	possibly damaging
rs2287870	NP_002194	N	S	NS	benign
rs2287918	NP_056133	Q	R	QR	benign
rs2287920	NP_056133	R	Q	RQ	benign
rs2287922	NP_060275	R	C	RC	possibly damaging
rs2287926	NP_004376	G	D	GD	possibly damaging
rs2287932	NP_006624	R	I	RI	probably damaging
rs2287939	NP_055139	L	S	LS	benign
rs2287941	NP_000765	V	L	VL	possibly damaging
rs2287942	NP_000765	V	G	VG	probably damaging
rs2287978	NP_060460	Y	F	YF	benign
rs2287987	NP_057526	V	M	VM	probably damaging
rs2288020	NP_848547	S	L	SL	benign
rs2288022	NP_848547	P	L	PL	probably damaging
rs2288023	NP_848547	T	S	TS	benign
rs2288101	NP_078848	Q	K	QK	benign
rs2288156	NP_653282	A	T	AT	benign
rs2288200	NP_004534	D	V	DV	possibly damaging
rs2288210	NP_004534	T	R	TR	possibly damaging
rs2288255	NP_060063	G	S	GS	benign
rs2288284	NP_653267	R	Q	RQ	benign
rs2288411	NP_036467	P	L	PL	benign
rs2288413	NP_078828	G	S	GS	benign
rs2288466	NP_057363	A	V	AV	benign
rs2288467	NP_057363	Y	C	YC	benign
rs2288481	NP_055234	E	K	EK	benign
rs2288538	NP_079038	W	C	WC	benign
rs2288648	NP_006703	A	V	AV	benign
rs2288648	NP_148936	A	V	AV	benign

rs2288674	NP_036535	A	V	AV	possibly damaging
rs2288675	NP_036535	R	K	RK	possibly damaging
rs2288709	NP_056337	F	S	FS	benign
rs2288709	NP_057092	F	S	FS	possibly damaging
rs2288792	NP_003053	R	Q	RQ	possibly damaging
rs2288846	NP_602309	A	T	AT	benign
rs2288846	NP_000626	A	T	AT	benign
rs2288851	NP_060130	N	S	NS	benign
rs2288892	NP_659196	A	T	AT	benign
rs2288904	NP_065161	R	Q	RQ	benign
rs2288920	NP_000942	G	C	GC	possibly damaging
rs2288949	NP_064555	R	K	RK	benign
rs2288957	NP_775751	R	W	RW	possibly damaging
rs2288958	NP_775751	T	N	TN	possibly damaging
rs2289015	NP_788954	G	D	GD	benign
rs2289025	NP_689739	R	K	RK	benign
rs2289025	NP_995585	R	K	RK	benign
rs2289043	NP_003719	T	M	TM	probably damaging
rs2289080	NP_005190	A	T	AT	benign
rs2289084	XP_371479	Q	R	QR	benign
rs2289096	NP_872302	L	S	LS	possibly damaging
rs2289170	NP_055855	R	Q	RQ	benign
rs2289178	XP_034904	S	I	SI	possibly damaging
rs2289181	XP_034904	S	L	SL	benign
rs2289189	NP_036546	S	T	ST	benign
rs2289229	XP_291015	I	T	IT	possibly damaging
rs2289235	NP_112188	G	S	GS	benign
rs2289247	NP_055181	V	M	VM	possibly damaging
rs2289247	NP_996562	V	M	VM	possibly damaging
rs2289310	NP_004738	P	Q	PQ	probably damaging
rs2289361	XP_209227	C	R	CR	probably damaging
rs2289363	NP_004332	E	K	EK	benign
rs2289366	NP_113631	S	N	SN	benign
rs2289433	NP_006578	C	Y	CY	probably damaging
rs2289491	NP_775924	I	V	IV	benign
rs2289519	NP_002630	P	S	PS	possibly damaging
rs2289520	NP_002630	L	V	LV	benign
rs2289530	XP_371082	P	A	PA	benign
rs2289532	XP_371082	E	K	EK	benign
rs2289537	NP_000143	T	A	TA	benign
rs2289541	NP_077015	R	H	RH	possibly damaging
rs2289593	NP_001377	A	T	AT	benign
rs2289622	NP_060506	T	I	TI	benign
rs2289629	NP_203747	S	L	SL	benign
rs2289642	XP_375397	L	P	LP	probably damaging
rs2289643	XP_375397	D	N	DN	benign

rs2289651	XP_376895	Q	R	QR	benign
rs2289664	NP_001783	N	S	NS	possibly damaging
rs2289702	NP_004381	G	R	GR	possibly damaging
rs2289719	XP_032997	R	Q	RQ	benign
rs2289741	NP_056355	R	Q	RQ	benign
rs2289838	NP_003938	E	D	ED	benign
rs2289867	NP_056981	P	Q	PQ	benign
rs2289884	NP_065777	S	G	SG	benign
rs2289886	NP_006200	N	S	NS	benign
rs2289909	NP_001667	P	L	PL	possibly damaging
rs2289912	NP_056390	P	T	PT	benign
rs2289953	NP_008994	A	T	AT	benign
rs2290057	NP_055244	S	N	SN	benign
rs2290085	NP_006028	V	M	VM	benign
rs2290130	NP_660279	V	I	VI	benign
rs2290145	NP_078872	S	N	SN	benign
rs2290178	NP_740746	A	T	AT	benign
rs2290182	NP_653274	I	T	IT	possibly damaging
rs2290207	NP_116254	N	S	NS	benign
rs2290213	XP_376589	C	S	CS	benign
rs2290228	NP_001210	R	Q	RQ	possibly damaging
rs2290237	NP_113679	M	L	ML	benign
rs2290242	NP_006304	N	H	NH	benign
rs2290272	NP_004204	V	I	VI	benign
rs2290302	NP_056459	N	H	NH	benign
rs2290304	NP_056459	R	Q	RQ	possibly damaging
rs2290305	NP_056459	M	R	MR	benign
rs2290344	NP_004846	M	T	MT	benign
rs2290380	NP_620410	V	I	VI	benign
rs2290427	NP_000618	P	Q	PQ	probably damaging
rs2290427	NP_996826	P	Q	PQ	probably damaging
rs2290472	NP_002371	T	M	TM	benign
rs2290472	NP_085072	T	M	TM	benign
rs2290477	XP_291062	A	S	AS	benign
rs2290480	NP_002653	A	S	AS	benign
rs2290522	XP_044622	L	F	LF	benign
rs2290527	XP_037557	N	D	ND	benign
rs2290532	NP_060254	N	D	ND	benign
rs2290552	NP_005081	M	I	MI	benign
rs2290553	NP_057726	R	Q	RQ	benign
rs2290558	NP_057726	R	T	RT	possibly damaging
rs2290559	NP_057726	R	H	RH	benign
rs2290610	NP_783852	I	V	IV	benign
rs2290610	NP_783855	I	V	IV	benign
rs2290610	NP_783854	I	V	IV	benign
rs2290610	NP_783853	I	V	IV	benign

rs2290612	NP_005840	F	S	FS	possibly damaging
rs2290635	NP_001965	C	S	CS	probably damaging
rs2290663	NP_060191	T	S	TS	benign
rs2290723	NP_055318	M	T	MT	benign
rs2290734	NP_003957	S	L	SL	benign
rs2290766	NP_076977	G	R	GR	possibly damaging
rs2290772	NP_758962	A	S	AS	benign
rs2290772	NP_690863	A	S	AS	benign
rs2290787	NP_057280	T	A	TA	benign
rs2290788	NP_057280	I	T	IT	possibly damaging
rs2290789	NP_057280	H	R	HR	possibly damaging
rs2290808	XP_497450	S	Y	SY	probably damaging
rs2290834	NP_000560	I	V	IV	benign
rs2290846	NP_006717	S	L	SL	benign
rs2290861	NP_060816	L	S	LS	benign
rs2290862	NP_060816	A	T	AT	benign
rs2290863	NP_115509	G	E	GE	possibly damaging
rs2290959	NP_542389	V	M	VM	benign
rs2290971	NP_004902	T	M	TM	benign
rs2291087	NP_002204	N	S	NS	benign
rs2291089	NP_002204	R	Q	RQ	possibly damaging
rs2291090	NP_002204	L	V	LV	benign
rs2291110	NP_258260	S	Y	SY	benign
rs2291116	NP_002804	T	I	TI	possibly damaging
rs2291157	NP_714928	Q	P	QP	possibly damaging
rs2291182	NP_149113	G	W	GW	probably damaging
rs2291189	XP_371039	A	V	AV	benign
rs2291256	NP_005886	G	E	GE	probably damaging
rs2291260	NP_005886	K	R	KR	benign
rs2291284	NP_056277	V	A	VA	benign
rs2291288	NP_631920	V	L	VL	benign
rs2291288	NP_056057	V	L	VL	benign
rs2291310	NP_596870	S	N	SN	benign
rs2291311	NP_596870	V	M	VM	benign
rs2291334	NP_570139	I	V	IV	benign
rs2291343	NP_387450	N	S	NS	benign
rs2291343	NP_004352	N	S	NS	benign
rs2291375	NP_001618	V	M	VM	benign
rs2291381	NP_009139	M	T	MT	probably damaging
rs2291388	XP_087804	V	I	VI	benign
rs2291397	NP_060331	P	L	PL	probably damaging
rs2291465	NP_056227	E	K	EK	benign
rs2291483	NP_861453	S	F	SF	possibly damaging
rs2291498	NP_056039	I	V	IV	benign
rs2291516	XP_290867	R	C	RC	benign
rs2291569	NP_001449	R	Q	RQ	possibly damaging

rs2291572	NP_001449	K	Q	KQ	benign
rs2291598	NP_056965	V	M	VM	benign
rs2291598	NP_037385	V	M	VM	benign
rs2291604	NP_115987	R	T	RT	benign
rs2291667	NP_003798	S	L	SL	benign
rs2291667	NP_742011	S	L	SL	benign
rs2291703	NP_597677	N	S	NS	benign
rs2291725	NP_004114	S	G	SG	benign
rs2291739	NP_003911	P	L	PL	probably damaging
rs2291806	NP_004422	E	K	EK	possibly damaging
rs2291822	NP_036596	T	A	TA	benign
rs2291864	NP_002213	R	Q	RQ	benign
rs2291938	NP_612423	Y	C	YC	probably damaging
rs2292030	NP_597713	P	L	PL	probably damaging
rs2292065	NP_116329	T	A	TA	benign
rs2292071	NP_078856	K	R	KR	benign
rs2292149	NP_005808	A	E	AE	benign
rs2292171	NP_110417	M	V	MV	benign
rs2292189	NP_078856	D	E	DE	benign
rs2292245	NP_002832	G	S	GS	benign
rs2292290	NP_663625	I	T	IT	benign
rs2292296	NP_005397	L	F	LF	benign
rs2292301	NP_612432	E	K	EK	benign
rs2292301	NP_816929	E	K	EK	benign
rs2292305	NP_003237	T	A	TA	benign
rs2292323	NP_061938	G	S	GS	benign
rs2292324	NP_061938	T	S	TS	benign
rs2292329	NP_061938	Q	H	QH	possibly damaging
rs2292341	NP_004850	P	S	PS	probably damaging
rs2292359	XP_051017	E	K	EK	benign
rs2292466	NP_787954	R	H	RH	benign
rs2292506	NP_258259	R	Q	RQ	benign
rs2292553	NP_071435	L	P	LP	probably damaging
rs2292596	NP_065782	P	A	PA	benign
rs2292661	NP_006801	T	M	TM	benign
rs2292664	XP_044334	P	R	PR	probably damaging
rs2292754	NP_037422	Y	N	YN	probably damaging
rs2292754	NP_057640	Y	N	YN	probably damaging
rs2292822	NP_065176	H	D	HD	probably damaging
rs2292829	NP_004912	I	T	IT	possibly damaging
rs2292880	NP_077006	R	W	RW	possibly damaging
rs2292884	NP_077006	H	R	HR	benign
rs2292923	NP_004660	P	H	PH	possibly damaging
rs2292927	NP_690848	S	G	SG	benign
rs2292954	NP_003110	T	A	TA	benign
rs2292969	NP_005984	L	P	LP	possibly damaging

rs2292971	NP_005984	M	T	MT	benign
rs2293012	NP_060386	M	L	ML	benign
rs2293013	NP_060386	G	E	GE	possibly damaging
rs2293025	NP_003203	Y	D	YD	probably damaging
rs2293066	NP_061720	T	I	TI	possibly damaging
rs2293097	XP_171855	V	M	VM	benign
rs2293172	NP_060796	E	D	ED	benign
rs2293177	XP_371960	E	K	EK	benign
rs2293203	NP_055893	Q	L	QL	benign
rs2293232	NP_004523	A	T	AT	benign
rs2293232	NP_612154	A	T	AT	benign
rs2293239	NP_060715	N	S	NS	possibly damaging
rs2293275	NP_000224	S	N	SN	benign
rs2293277	NP_060601	L	H	LH	benign
rs2293283	NP_783161	I	T	IT	possibly damaging
rs2293362	NP_073585	Q	H	QH	possibly damaging
rs2293404	NP_689771	A	V	AV	benign
rs2293407	NP_689771	T	A	TA	benign
rs2293450	NP_001677	S	L	SL	possibly damaging
rs2293477	NP_060745	R	H	RH	benign
rs2293483	NP_036579	E	K	EK	benign
rs2293507	NP_056385	A	S	AS	benign
rs2293583	NP_689919	I	V	IV	benign
rs2293587	NP_006621	V	I	VI	benign
rs2293669	NP_065830	T	A	TA	benign
rs2293680	XP_371575	C	W	CW	benign
rs2293796	XP_370765	R	Q	RQ	benign
rs2293869	NP_006260	N	Y	NY	probably damaging
rs2293918	NP_057317	G	D	GD	benign
rs2293925	NP_443195	R	W	RW	possibly damaging
rs2293948	XP_047025	N	S	NS	benign
rs2293979	NP_036604	T	I	TI	possibly damaging
rs2294008	NP_005663	M	T	MT	benign
rs2294013	NP_004297	R	H	RH	possibly damaging
rs2294015	NP_004297	V	I	VI	benign
rs2294039	NP_055444	V	I	VI	benign
rs2294048	NP_932159	S	Y	SY	possibly damaging
rs2294048	NP_789847	S	Y	SY	possibly damaging
rs2294048	NP_067643	S	Y	SY	possibly damaging
rs2294049	NP_932159	S	T	ST	benign
rs2294049	NP_789847	S	T	ST	benign
rs2294049	NP_067643	S	T	ST	benign
rs2294066	NP_003961	T	M	TM	possibly damaging
rs2294168	NP_478070	S	I	SI	possibly damaging
rs2294228	NP_065184	N	K	NK	benign
rs2294228	NP_996809	N	K	NK	benign

rs2294315	NP_739577	F	S	FS	probably damaging
rs2294315	NP_072090	F	S	FS	probably damaging
rs2294369	NP_066919	G	R	GR	possibly damaging
rs2294451	NP_071375	P	L	PL	probably damaging
rs2294453	NP_071375	T	M	TM	benign
rs2294619	NP_055948	T	A	TA	benign
rs2294619	NP_203750	T	A	TA	benign
rs2294639	NP_060908	P	T	PT	possibly damaging
rs2294689	NP_057698	Q	E	QE	benign
rs2294740	NP_079339	V	A	VA	benign
rs2294757	NP_004657	I	T	IT	possibly damaging
rs2294760	NP_004656	V	A	VA	possibly damaging
rs2294763	NP_443136	N	S	NS	benign
rs2294849	NP_060664	A	D	AD	benign
rs2294851	NP_060664	S	N	SN	benign
rs2295005	NP_612638	A	G	AG	benign
rs2295006	NP_002053	R	H	RH	benign
rs2295021	NP_065387	V	M	VM	benign
rs2295182	NP_808779	R	T	RT	benign
rs2295190	NP_056108	L	M	LM	benign
rs2295190	NP_598411	L	M	LM	benign
rs2295190	NP_149062	L	M	LM	benign
rs2295190	NP_892006	L	M	LM	benign
rs2295191	NP_056108	G	S	GS	benign
rs2295191	NP_598411	G	S	GS	benign
rs2295191	NP_149062	G	S	GS	benign
rs2295191	NP_892006	G	S	GS	benign
rs2295192	NP_056108	R	Q	RQ	benign
rs2295192	NP_598411	R	Q	RQ	benign
rs2295192	NP_149062	R	Q	RQ	benign
rs2295192	NP_892006	R	Q	RQ	benign
rs2295201	XP_376540	I	V	IV	benign
rs2295213	NP_057234	P	S	PS	probably damaging
rs2295275	NP_277037	C	S	CS	probably damaging
rs2295275	NP_060885	C	S	CS	probably damaging
rs2295275	NP_277036	C	S	CS	probably damaging
rs2295283	NP_068752	E	K	EK	benign
rs2295289	NP_068752	R	W	RW	possibly damaging
rs2295304	NP_612461	R	G	RG	probably damaging
rs2295322	NP_054888	G	R	GR	benign
rs2295336	NP_115928	S	P	SP	possibly damaging
rs2295418	NP_003231	P	L	PL	probably damaging
rs2295466	NP_003570	K	E	KE	benign
rs2295474	NP_000370	C	Y	CY	probably damaging
rs2295476	NP_057164	T	M	TM	possibly damaging
rs2295490	NP_066981	Q	R	QR	benign



rs2295497	NP_054908	R	C	RC	possibly damaging
rs2295497	NP_054909	R	C	RC	possibly damaging
rs2295497	NP_789771	R	C	RC	possibly damaging
rs2295497	NP_001110	R	C	RC	possibly damaging
rs2295524	NP_079228	D	N	DN	benign
rs2295564	NP_542177	H	P	HP	probably damaging
rs2295612	NP_003028	F	L	FL	benign
rs2295615	NP_001769	E	Q	EQ	benign
rs2295617	NP_067004	T	M	TM	benign
rs2295620	NP_443100	T	M	TM	benign
rs2295651	NP_065713	P	S	PS	possibly damaging
rs2295666	NP_149417	A	V	AV	benign
rs2295766	NP_004559	G	S	GS	benign
rs2295769	NP_004559	M	V	MV	benign
rs2295771	NP_056305	R	Q	RQ	possibly damaging
rs2295772	NP_056305	P	S	PS	benign
rs2295774	NP_937781	S	A	SA	benign
rs2295774	NP_056305	S	A	SA	benign
rs2295778	NP_060372	P	A	PA	possibly damaging
rs2295790	NP_954653	V	M	VM	benign
rs2295790	NP_006434	V	M	VM	benign
rs2295795	NP_006280	S	L	SL	benign
rs2295837	NP_055660	M	L	ML	benign
rs2295847	NP_057434	Q	E	QE	benign
rs2295847	NP_065972	Q	E	QE	benign
rs2295847	NP_891989	Q	E	QE	benign
rs2295847	NP_891990	Q	E	QE	benign
rs2295847	NP_891991	Q	E	QE	benign
rs2295852	NP_619732	I	V	IV	benign
rs2295852	NP_443193	I	V	IV	benign
rs2295862	NP_036515	N	S	NS	benign
rs2295873	NP_996742	V	A	VA	benign
rs2295873	NP_996743	V	A	VA	benign
rs2295873	NP_996744	V	A	VA	benign
rs2295873	NP_008928	V	A	VA	benign
rs2295874	NP_996742	A	V	AV	benign
rs2295874	NP_996743	A	V	AV	benign
rs2295874	NP_996744	A	V	AV	benign
rs2295874	NP_008928	A	V	AV	benign
rs2295875	NP_996742	P	L	PL	benign
rs2295875	NP_996743	P	L	PL	benign
rs2295875	NP_008928	P	L	PL	benign
rs2295875	NP_996744	P	L	PL	possibly damaging
rs2295876	NP_996742	L	H	LH	possibly damaging
rs2295876	NP_996743	L	H	LH	possibly damaging
rs2295876	NP_996744	L	H	LH	possibly damaging

rs2295876	NP_008928	L	H	LH	possibly damaging
rs2295878	NP_996742	V	I	VI	benign
rs2295878	NP_996743	V	I	VI	benign
rs2295878	NP_996744	V	I	VI	benign
rs2295878	NP_008928	V	I	VI	benign
rs2295879	NP_996742	A	T	AT	benign
rs2295879	NP_996743	A	T	AT	benign
rs2295879	NP_996744	A	T	AT	benign
rs2295879	NP_008928	A	T	AT	benign
rs2295907	NP_005785	F	L	FL	benign
rs2295907	NP_878912	F	L	FL	benign
rs2295908	NP_878912	T	M	TM	benign
rs2295908	NP_005785	T	M	TM	possibly damaging
rs2295934	XP_166086	S	R	SR	benign
rs2295947	NP_689945	V	M	VM	benign
rs2295950	NP_060143	L	F	LF	benign
rs2295973	XP_375105	A	V	AV	benign
rs2295994	NP_075383	D	E	DE	benign
rs2296060	XP_374297	L	F	LF	benign
rs2296067	NP_055876	D	N	DN	benign
rs2296079	NP_150090	V	M	VM	benign
rs2296079	NP_150089	V	M	VM	benign
rs2296129	XP_371402	E	A	EA	benign
rs2296136	XP_166138	A	G	AG	benign
rs2296151	NP_001663	V	A	VA	benign
rs2296158	XP_114735	R	G	RG	benign
rs2296160	NP_000642	A	T	AT	benign
rs2296160	NP_000564	A	T	AT	benign
rs2296172	NP_149033	M	V	MV	benign
rs2296172	NP_036222	M	V	MV	benign
rs2296174	NP_149033	T	I	TI	benign
rs2296174	NP_036222	T	I	TI	possibly damaging
rs2296225	NP_065867	I	V	IV	benign
rs2296303	NP_061486	S	T	ST	benign
rs2296303	NP_005553	S	T	ST	benign
rs2296306	NP_061486	D	E	DE	benign
rs2296306	NP_005553	D	E	DE	benign
rs2296308	NP_056300	K	N	KN	benign
rs2296333	NP_002215	G	V	GV	benign
rs2296356	XP_373109	G	R	GR	possibly damaging
rs2296377	NP_071766	L	F	LF	benign
rs2296403	NP_009117	Q	H	QH	benign
rs2296414	NP_002429	T	I	TI	benign
rs2296434	NP_000186	P	R	PR	possibly damaging
rs2296436	NP_000186	Q	R	QR	benign
rs2296441	NP_116098	A	T	AT	benign

rs2296545	NP_060833	E	D	ED	benign
rs2296556	NP_055722	A	T	AT	benign
rs2296594	NP_003165	T	M	TM	benign
rs2296594	NP_068506	T	M	TM	benign
rs2296610	NP_006384	A	D	AD	benign
rs2296651	NP_003040	S	F	SF	possibly damaging
rs2296681	NP_000763	K	E	KE	benign
rs2296687	NP_065869	K	R	KR	benign
rs2296695	NP_003272	R	W	RW	probably damaging
rs2296723	NP_060845	E	D	ED	benign
rs2296815	XP_030729	S	C	SC	benign
rs2296815	XP_497069	S	C	SC	benign
rs2296871	NP_055861	T	P	TP	possibly damaging
rs2296881	NP_060754	H	L	HL	probably damaging
rs2296917	NP_004109	P	A	PA	possibly damaging
rs2296928	XP_375085	E	A	EA	possibly damaging
rs2296949	NP_009102	R	Q	RQ	benign
rs2296961	NP_066272	N	S	NS	benign
rs2296968	NP_060296	A	T	AT	benign
rs2297002	NP_808800	H	R	HR	benign
rs2297019	NP_005579	M	V	MV	benign
rs2297020	NP_005579	S	T	ST	benign
rs2297025	NP_004111	S	P	SP	benign
rs2297066	XP_040910	D	E	DE	benign
rs2297067	XP_040910	R	W	RW	possibly damaging
rs2297085	NP_000498	F	I	FI	probably damaging
rs2297089	NP_037522	S	N	SN	benign
rs2297232	NP_003549	N	S	NS	possibly damaging
rs2297241	NP_078901	H	Q	HQ	benign
rs2297241	NP_064504	H	Q	HQ	possibly damaging
rs2297270	NP_996770	D	E	DE	benign
rs2297270	NP_001380	D	E	DE	benign
rs2297322	NP_005064	S	N	SN	benign
rs2297336	NP_872345	F	S	FS	probably damaging
rs2297345	NP_817127	S	N	SN	benign
rs2297373	NP_694857	F	L	FL	probably damaging
rs2297373	NP_003048	F	L	FL	probably damaging
rs2297382	NP_056355	K	M	KM	benign
rs2297411	NP_064632	H	Q	HQ	benign
rs2297417	NP_055641	T	A	TA	benign
rs2297417	NP_003598	T	A	TA	benign
rs2297425	NP_056417	T	I	TI	benign
rs2297463	XP_376554	R	H	RH	benign
rs2297483	NP_620132	M	V	MV	benign
rs2297507	NP_004167	R	W	RW	probably damaging
rs2297518	NP_695024	S	L	SL	possibly damaging

rs2297518	NP_000616	S	L	SL	possibly damaging
rs2297534	NP_958854	T	S	TS	benign
rs2297538	NP_958854	V	I	VI	benign
rs2297567	NP_009033	P	T	PT	benign
rs2297587	NP_005551	R	H	RH	benign
rs2297595	NP_000101	M	V	MV	probably damaging
rs2297603	NP_001846	G	V	GV	probably damaging
rs2297613	NP_009041	D	E	DE	benign
rs2297653	NP_689511	M	T	MT	probably damaging
rs2297653	NP_751896	M	T	MT	probably damaging
rs2297653	NP_002473	M	T	MT	probably damaging
rs2297654	NP_689713	I	V	IV	benign
rs2297655	NP_689713	R	P	RP	possibly damaging
rs2297669	NP_000341	R	S	RS	probably damaging
rs2297717	NP_073571	G	A	GA	benign
rs2297773	XP_044580	I	V	IV	benign
rs2297775	NP_115668	M	V	MV	benign
rs2297792	NP_064516	I	M	IM	benign
rs2297809	NP_000770	R	C	RC	probably damaging
rs2297810	NP_000770	M	I	MI	possibly damaging
rs2297852	NP_001422	Q	H	QH	benign
rs2297871	NP_036442	A	V	AV	benign
rs2297873	XP_293398	I	V	IV	benign
rs2297881	NP_055889	Y	C	YC	probably damaging
rs2297950	NP_003456	G	S	GS	possibly damaging
rs2297970	XP_166300	C	Y	CY	benign
rs2297980	NP_055279	R	Q	RQ	benign
rs2298014	XP_114152	G	S	GS	benign
rs2298033	XP_167711	S	F	SF	possibly damaging
rs2298039	NP_116188	P	S	PS	probably damaging
rs2298043	NP_006327	P	A	PA	probably damaging
rs2298075	NP_056305	A	S	AS	benign
rs2298083	NP_775179	V	I	VI	benign
rs2298083	NP_963863	V	I	VI	benign
rs2298083	NP_963862	V	I	VI	benign
rs2298083	NP_055652	V	I	VI	benign
rs2298110	XP_375697	N	S	NS	benign
rs2298121	NP_006650	A	T	AT	benign
rs2298154	NP_579899	R	C	RC	benign
rs2298154	NP_038479	R	C	RC	benign
rs2298171	NP_689499	G	S	GS	possibly damaging
rs2298173	NP_976072	I	V	IV	benign
rs2298260	XP_376819	T	A	TA	benign
rs2298284	NP_061940	R	H	RH	benign
rs2298316	NP_065081	R	Q	RQ	benign
rs2298398	NP_060734	T	M	TM	benign

rs2298428	XP_097886	A	T	AT	benign
rs2298447	NP_079404	L	F	LF	benign
rs2298484	NP_055972	R	H	RH	benign
rs2298546	NP_056023	S	N	SN	benign
rs2298547	NP_056023	S	R	SR	possibly damaging
rs2298548	NP_056023	P	A	PA	possibly damaging
rs2298566	XP_374949	L	R	LR	possibly damaging
rs2298624	XP_371116	R	H	RH	benign
rs2298668	NP_005031	E	D	ED	benign
rs2298697	NP_003897	R	C	RC	benign
rs2298702	NP_060782	E	Q	EQ	benign
rs2298707	XP_374922	A	G	AG	benign
rs2298711	NP_005561	M	L	ML	benign
rs2298719	NP_056949	M	V	MV	benign
rs2298720	NP_056949	E	K	EK	possibly damaging
rs2298768	NP_001216	D	E	DE	possibly damaging
rs2298771	NP_008851	T	A	TA	benign
rs2298804	NP_001992	K	R	KR	benign
rs2298805	NP_001992	S	N	SN	benign
rs2298808	NP_055601	A	D	AD	benign
rs2298813	NP_003096	A	T	AT	benign
rs2298831	NP_694938	I	M	IM	benign
rs2298872	NP_563578	S	R	SR	benign
rs2298872	NP_563579	S	R	SR	benign
rs2298872	NP_002829	S	R	SR	benign
rs2301149	NP_004128	V	L	VL	benign
rs2301151	NP_005294	R	H	RH	benign
rs2301246	NP_001898	H	R	HR	benign
rs2301344	NP_075252	R	L	RL	probably damaging
rs2301344	NP_998812	R	L	RL	probably damaging
rs2301354	NP_003762	T	M	TM	possibly damaging
rs2301366	NP_937782	S	T	ST	benign
rs2301366	NP_002998	S	T	ST	benign
rs2301387	NP_071335	N	I	NI	probably damaging
rs2301416	NP_055296	R	C	RC	benign
rs2301423	NP_000845	V	M	VM	benign
rs2301553	NP_055585	G	S	GS	benign
rs2301562	NP_722541	G	A	GA	benign
rs2301562	NP_005816	G	A	GA	benign
rs2301574	XP_378314	R	H	RH	benign
rs2301582	NP_127499	V	M	VM	benign
rs2301582	NP_127500	V	M	VM	benign
rs2301582	NP_055737	V	M	VM	benign
rs2301582	NP_127497	V	M	VM	benign
rs2301596	XP_049237	P	L	PL	possibly damaging
rs2301612	NP_620596	Q	E	QE	benign

rs2301612	NP_620595	Q	E	QE	benign
rs2301612	NP_620594	Q	E	QE	benign
rs2301620	NP_060009	R	W	RW	probably damaging
rs2301626	NP_002195	G	S	GS	benign
rs2301626	NP_005492	G	S	GS	benign
rs2301635	NP_000102	R	Q	RQ	benign
rs2301641	NP_848654	K	E	KE	possibly damaging
rs2301721	NP_008827	A	T	AT	benign
rs2301726	NP_076997	R	Q	RQ	benign
rs2301752	NP_739575	A	T	AT	benign
rs2301752	NP_079512	A	T	AT	benign
rs2301753	NP_739575	A	E	AE	benign
rs2301753	NP_079512	A	E	AE	benign
rs2301790	XP_052620	M	V	MV	benign
rs2301806	XP_376658	P	A	PA	possibly damaging
rs2301833	NP_938191	R	W	RW	possibly damaging
rs2301833	NP_938406	R	W	RW	possibly damaging
rs2301833	NP_061496	R	W	RW	possibly damaging
rs2301833	NP_938190	R	W	RW	probably damaging
rs2301833	NP_938192	R	W	RW	probably damaging
rs2301833	NP_938193	R	W	RW	probably damaging
rs2301833	NP_938194	R	W	RW	probably damaging
rs2301833	NP_938196	R	W	RW	probably damaging
rs2301833	NP_938197	R	W	RW	probably damaging
rs2301833	NP_938198	R	W	RW	probably damaging
rs2301833	NP_938199	R	W	RW	probably damaging
rs2301833	NP_938200	R	W	RW	probably damaging
rs2301833	NP_938201	R	W	RW	probably damaging
rs2301833	NP_938202	R	W	RW	probably damaging
rs2301833	NP_938407	R	W	RW	probably damaging
rs2301850	NP_036530	G	S	GS	benign
rs2301868	NP_004749	G	E	GE	possibly damaging
rs2301870	NP_006142	V	M	VM	benign
rs2301895	NP_057412	M	V	MV	benign
rs2301895	NP_005676	V	M	VM	benign
rs2301963	NP_004736	P	Q	PQ	benign
rs2301983	NP_689712	A	V	AV	benign
rs2302006	NP_002982	I	L	IL	benign
rs2302007	NP_002982	S	G	SG	benign
rs2302014	XP_376193	L	V	LV	benign
rs2302054	XP_297687	V	I	VI	benign
rs2302061	NP_115871	V	L	VL	benign
rs2302075	NP_714928	T	K	TK	benign
rs2302110	XP_375553	P	T	PT	benign
rs2302131	NP_057202	Q	R	QR	benign
rs2302134	NP_525023	N	S	NS	benign

rs2302146	NP_112198	R	C	RC	possibly damaging
rs2302147	NP_112198	H	Q	HQ	probably damaging
rs2302148	NP_112198	R	Q	RQ	benign
rs2302172	NP_002519	R	K	RK	benign
rs2302188	NP_291021	M	V	MV	benign
rs2302189	NP_004678	V	G	VG	possibly damaging
rs2302190	NP_004678	G	S	GS	benign
rs2302234	NP_060035	K	N	KN	possibly damaging
rs2302275	NP_001795	P	R	PR	benign
rs2302294	NP_759018	K	T	KT	possibly damaging
rs2302294	NP_525022	K	T	KT	possibly damaging
rs2302306	NP_055243	V	M	VM	benign
rs2302310	NP_937822	L	S	LS	possibly damaging
rs2302311	NP_000493	N	Y	NY	probably damaging
rs2302323	NP_002654	G	D	GD	possibly damaging
rs2302339	NP_006765	M	V	MV	probably damaging
rs2302340	NP_006765	G	E	GE	probably damaging
rs2302349	NP_057090	I	T	IT	benign
rs2302422	NP_703144	N	T	NT	possibly damaging
rs2302427	NP_694543	D	H	DH	benign
rs2302427	NP_004447	D	H	DH	benign
rs2302464	NP_004325	R	Q	RQ	benign
rs2302465	NP_004325	R	H	RH	possibly damaging
rs2302466	NP_004325	A	V	AV	benign
rs2302515	NP_001635	I	M	IM	benign
rs2302516	NP_065685	V	L	VL	benign
rs2302524	NP_002650	K	R	KR	benign
rs2302566	NP_722547	K	N	KN	benign
rs2302566	NP_058651	N	K	NK	benign
rs2302588	NP_056419	W	C	WC	probably damaging
rs2302612	NP_003845	L	P	LP	possibly damaging
rs2302657	XP_042685	S	P	SP	possibly damaging
rs2302669	XP_375485	C	R	CR	probably damaging
rs2302677	XP_051197	R	Q	RQ	benign
rs2302685	NP_002327	I	V	IV	benign
rs2302686	NP_002327	S	C	SC	possibly damaging
rs2302691	NP_004516	H	Q	HQ	benign
rs2302757	NP_003580	K	R	KR	benign
rs2302787	NP_056328	P	R	PR	probably damaging
rs2302815	NP_065843	K	Q	KQ	benign
rs2302819	NP_001957	A	T	AT	benign
rs2302824	NP_525124	T	M	TM	probably damaging
rs2302878	NP_055429	I	V	IV	benign
rs2302924	NP_038478	G	V	GV	possibly damaging
rs2302947	NP_814444	V	I	VI	benign
rs2302947	NP_004596	V	I	VI	benign

rs2302951	NP_113673	R	Q	RQ	benign
rs2302970	NP_115515	R	P	RP	benign
rs2302971	NP_057665	G	R	GR	possibly damaging
rs2302980	NP_055714	P	R	PR	probably damaging
rs2302987	NP_085079	T	A	TA	benign
rs2302987	NP_000755	T	A	TA	benign
rs2303007	NP_005101	I	V	IV	benign
rs2303015	NP_005822	V	A	VA	benign
rs2303016	NP_005822	G	R	GR	possibly damaging
rs2303018	NP_006049	P	S	PS	benign
rs2303053	NP_003651	A	S	AS	benign
rs2303077	NP_036617	N	K	NK	possibly damaging
rs2303077	NP_036616	N	K	NK	possibly damaging
rs2303078	NP_036617	R	H	RH	benign
rs2303078	NP_036616	R	H	RH	benign
rs2303080	NP_076915	S	T	ST	benign
rs2303080	NP_002445	S	T	ST	benign
rs2303098	NP_056534	R	H	RH	benign
rs2303100	NP_477512	R	Q	RQ	benign
rs2303121	NP_002194	P	L	PL	probably damaging
rs2303134	NP_055026	N	S	NS	benign
rs2303138	NP_005566	A	T	AT	benign
rs2303146	NP_542393	C	W	CW	benign
rs2303182	XP_498469	W	R	WR	possibly damaging
rs2303192	NP_570607	I	T	IT	possibly damaging
rs2303192	NP_061030	I	T	IT	possibly damaging
rs2303193	NP_254275	N	S	NS	benign
rs2303203	NP_055430	R	Q	RQ	benign
rs2303217	NP_064573	T	S	TS	benign
rs2303255	NP_055113	A	V	AV	benign
rs2303262	NP_005783	K	R	KR	benign
rs2303267	NP_005783	I	V	IV	benign
rs2303269	NP_000503	A	S	AS	benign
rs2303270	NP_000503	A	T	AT	benign
rs2303291	NP_062541	A	T	AT	benign
rs2303291	NP_006268	A	T	AT	benign
rs2303312	NP_064695	P	S	PS	benign
rs2303345	XP_495998	A	V	AV	benign
rs2303361	NP_631918	Q	R	QR	benign
rs2303436	NP_001922	A	V	AV	benign
rs2303454	NP_060167	Y	C	YC	benign
rs2303460	NP_055497	R	C	RC	probably damaging
rs2303483	NP_004493	G	A	GA	benign
rs2303510	XP_371114	V	I	VI	benign
rs2303549	NP_002340	T	S	TS	benign
rs2303578	NP_003749	A	T	AT	benign



rs2303579	NP_940682	N	S	NS	benign
rs2303579	NP_006145	S	N	SN	benign
rs2303580	NP_006145	Q	R	QR	benign
rs2303580	NP_940682	R	Q	RQ	benign
rs2303603	NP_003485	R	H	RH	possibly damaging
rs2303635	NP_057285	A	P	AP	benign
rs2303650	NP_055454	R	S	RS	possibly damaging
rs2303654	NP_005770	I	V	IV	benign
rs2303688	NP_002966	P	R	PR	possibly damaging
rs2303690	NP_071425	K	E	KE	benign
rs2303694	NP_006523	S	N	SN	benign
rs2303698	NP_003074	T	M	TM	benign
rs2303708	NP_060225	V	I	VI	benign
rs2303720	NP_694955	R	H	RH	possibly damaging
rs2303721	NP_694955	V	I	VI	benign
rs2303738	NP_065782	G	V	GV	benign
rs2303743	NP_002301	I	M	IM	benign
rs2303744	NP_003697	I	V	IV	benign
rs2303759	NP_055234	M	R	MR	benign
rs2303765	NP_001788	R	W	RW	probably damaging
rs2303765	NP_387513	R	W	RW	probably damaging
rs2303771	NP_060036	T	I	TI	benign
rs2303772	NP_060036	L	V	LV	benign
rs2303783	NP_001288	L	I	LI	benign
rs2303785	NP_001288	K	R	KR	benign
rs2303790	NP_000069	D	G	DG	possibly damaging
rs2303797	NP_945328	P	L	PL	probably damaging
rs2303797	NP_945353	P	L	PL	probably damaging
rs2303797	NP_004697	P	L	PL	probably damaging
rs2303810	NP_954672	R	I	RI	possibly damaging
rs2303810	NP_057669	R	I	RI	possibly damaging
rs2303853	XP_375376	G	S	GS	benign
rs2303857	NP_057225	R	Q	RQ	possibly damaging
rs2303909	NP_079272	V	I	VI	benign
rs2303914	NP_005671	S	A	SA	benign
rs2303920	NP_055367	V	I	VI	benign
rs2303920	NP_937825	V	I	VI	benign
rs2303927	NP_009119	S	C	SC	benign
rs2303929	NP_003031	G	E	GE	probably damaging
rs2303956	NP_055566	N	I	NI	possibly damaging
rs2303978	XP_371108	I	V	IV	benign
rs2303983	NP_061860	D	G	DG	benign
rs2303986	NP_114122	A	V	AV	benign
rs2303995	NP_004510	E	G	EG	possibly damaging
rs2304019	NP_055474	R	W	RW	possibly damaging
rs2304024	NP_001438	R	W	RW	benign

rs2304029	NP_001438	Q	H	QH	benign
rs2304053	NP_001438	P	L	PL	probably damaging
rs2304103	NP_689479	S	L	SL	possibly damaging
rs2304114	NP_057524	V	I	VI	benign
rs2304133	XP_032278	G	S	GS	benign
rs2304167	NP_057447	T	A	TA	benign
rs2304172	XP_032278	E	Q	EQ	benign
rs2304200	NP_443122	R	W	RW	probably damaging
rs2304202	NP_068379	D	G	DG	possibly damaging
rs2304208	NP_067051	M	T	MT	benign
rs2304224	NP_055033	F	V	FV	possibly damaging
rs2304237	NP_002153	G	D	GD	possibly damaging
rs2304254	NP_003322	R	Q	RQ	benign
rs2304255	NP_003322	G	S	GS	benign
rs2304256	NP_003322	V	F	VF	possibly damaging
rs2304303	NP_671517	R	H	RH	benign
rs2304303	NP_056362	R	H	RH	benign
rs2304305	NP_671517	M	I	MI	benign
rs2304305	NP_056362	M	I	MI	benign
rs2304306	NP_671517	P	L	PL	probably damaging
rs2304306	NP_056362	P	L	PL	probably damaging
rs2304314	NP_940949	K	R	KR	benign
rs2304380	NP_001027	I	T	IT	benign
rs2304402	NP_055483	D	N	DN	benign
rs2304445	NP_060456	V	M	VM	benign
rs2304449	NP_004496	V	I	VI	benign
rs2304456	NP_000884	I	M	IM	benign
rs2304459	NP_067061	R	H	RH	possibly damaging
rs2304462	NP_000094	R	H	RH	benign
rs2304462	NP_112503	R	H	RH	benign
rs2304472	NP_000294	Q	L	QL	probably damaging
rs2304497	NP_001087	E	D	ED	benign
rs2304497	NP_942127	E	D	ED	benign
rs2304514	NP_002106	R	C	RC	possibly damaging
rs2304591	XP_291015	R	H	RH	benign
rs2304628	NP_076414	S	L	SL	benign
rs2304629	NP_076414	N	D	ND	benign
rs2304630	NP_076414	M	V	MV	benign
rs2304678	NP_115993	W	C	WC	probably damaging
rs2304681	NP_006479	V	I	VI	benign
rs2304681	NP_000212	V	I	VI	benign
rs2304693	NP_004740	P	L	PL	possibly damaging
rs2304694	NP_004740	A	S	AS	benign
rs2304705	NP_003928	R	Q	RQ	benign
rs2304707	NP_000419	P	Q	PQ	probably damaging
rs2304735	NP_037495	S	L	SL	possibly damaging

rs2304748	NP_079391	G	E	GE	possibly damaging
rs2304778	NP_115744	G	D	GD	possibly damaging
rs2304789	NP_003900	T	M	TM	benign
rs2304802	NP_060822	P	Q	PQ	benign
rs2304804	NP_653191	Q	P	QP	probably damaging
rs2304821	NP_002828	T	M	TM	benign
rs2304824	NP_055977	M	V	MV	benign
rs2304877	NP_065208	R	H	RH	benign
rs2304877	NP_065209	R	H	RH	benign
rs2304877	NP_000028	R	H	RH	benign
rs2304877	NP_065210	R	H	RH	benign
rs2304899	NP_068595	M	I	MI	possibly damaging
rs2304933	NP_640342	V	F	VF	benign
rs2304942	NP_060419	P	S	PS	possibly damaging
rs2304967	XP_496206	A	G	AG	benign
rs2304968	XP_496206	Y	C	YC	probably damaging
rs2304969	XP_371006	V	F	VF	benign
rs2304971	NP_071342	M	T	MT	benign
rs2304974	NP_002789	P	A	PA	benign
rs2304977	XP_375397	P	L	PL	benign
rs2304978	NP_550436	R	G	RG	possibly damaging
rs2304978	NP_550434	R	G	RG	possibly damaging
rs2304997	NP_002882	V	I	VI	benign
rs2304997	NP_722522	V	I	VI	benign
rs2305030	NP_002335	R	Q	RQ	benign
rs2305030	NP_996844	R	Q	RQ	benign
rs2305053	NP_443134	R	C	RC	possibly damaging
rs2305072	NP_976221	R	T	RT	possibly damaging
rs2305089	NP_003172	G	D	GD	possibly damaging
rs2305123	NP_077726	I	V	IV	benign
rs2305124	NP_077726	H	R	HR	possibly damaging
rs2305160	NP_002509	T	A	TA	benign
rs2305165	NP_056176	Q	P	QP	benign
rs2305178	NP_075254	G	R	GR	benign
rs2305178	NP_000133	G	R	GR	benign
rs2305204	NP_006220	E	D	ED	benign
rs2305205	NP_006220	A	V	AV	benign
rs2305207	NP_071407	V	M	VM	benign
rs2305207	NP_443068	V	M	VM	benign
rs2305213	NP_056469	C	R	CR	benign
rs2305246	NP_000149	R	G	RG	benign
rs2305253	NP_000266	P	R	PR	probably damaging
rs2305257	NP_542388	V	I	VI	benign
rs2305276	NP_005067	R	W	RW	probably damaging
rs2305296	NP_054879	I	V	IV	benign
rs2305335	NP_071768	H	L	HL	probably damaging

rs2305370	NP_003817	K	N	KN	benign
rs2305376	NP_037444	G	R	GR	benign
rs2305383	NP_057196	R	C	RC	probably damaging
rs2305397	XP_371617	P	L	PL	possibly damaging
rs2305398	XP_371617	Q	R	QR	benign
rs2305431	NP_071744	F	I	FI	possibly damaging
rs2305431	NP_690590	F	I	FI	possibly damaging
rs2305431	NP_690591	F	I	FI	possibly damaging
rs2305440	NP_061140	F	L	FL	benign
rs2305453	XP_372035	R	W	RW	possibly damaging
rs2305458	NP_071905	M	V	MV	benign
rs2305473	NP_065779	S	G	SG	benign
rs2305475	NP_065779	S	P	SP	possibly damaging
rs2305479	NP_061000	G	R	GR	possibly damaging
rs2305480	NP_061000	P	S	PS	possibly damaging
rs2305531	XP_496245	G	R	GR	possibly damaging
rs2305534	NP_997223	Q	R	QR	benign
rs2305535	NP_005691	R	H	RH	benign
rs2305549	XP_371259	H	R	HR	possibly damaging
rs2305556	NP_002266	K	R	KR	benign
rs2305570	XP_172801	E	G	EG	possibly damaging
rs2305606	XP_044622	P	L	PL	probably damaging
rs2305637	XP_291064	S	F	SF	benign
rs2305659	NP_078865	E	K	EK	benign
rs2305670	XP_371691	H	N	HN	possibly damaging
rs2305685	NP_149106	K	N	KN	benign
rs2305710	NP_037375	S	N	SN	benign
rs2305734	NP_002878	F	Y	FY	benign
rs2305748	NP_001028	T	M	TM	benign
rs2305770	NP_055257	E	K	EK	benign
rs2305773	NP_942143	L	V	LV	benign
rs2305773	NP_001236	L	V	LV	benign
rs2305773	NP_942142	L	V	LV	benign
rs2305777	NP_060191	T	M	TM	benign
rs2305780	NP_002909	T	A	TA	benign
rs2305793	NP_064615	G	V	GV	probably damaging
rs2305799	NP_001602	V	M	VM	benign
rs2305816	NP_777619	F	C	FC	possibly damaging
rs2305820	NP_000879	P	T	PT	probably damaging
rs2305830	XP_374936	T	S	TS	benign
rs2305873	NP_659731	A	T	AT	benign
rs2305913	XP_371079	R	G	RG	benign
rs2305925	NP_689997	T	S	TS	benign
rs2305935	NP_056156	V	A	VA	benign
rs2305948	NP_002244	V	I	VI	benign
rs2305962	XP_068632	A	P	AP	benign

rs2305984	XP_113678	A	T	AT	benign
rs2305993	NP_003053	E	G	EG	benign
rs2306009	NP_073153	A	D	AD	benign
rs2306022	NP_036343	V	M	VM	benign
rs2306024	NP_036343	M	L	ML	benign
rs2306029	XP_035037	S	G	SG	benign
rs2306031	XP_035037	A	T	AT	benign
rs2306033	XP_035037	A	V	AV	benign
rs2306059	NP_942592	H	Y	HY	benign
rs2306059	NP_115593	H	Y	HY	possibly damaging
rs2306066	NP_060187	D	N	DN	benign
rs2306066	NP_112554	D	N	DN	benign
rs2306066	NP_068743	D	N	DN	benign
rs2306122	NP_003806	P	H	PH	probably damaging
rs2306122	NP_997077	P	H	PH	probably damaging
rs2306122	NP_997078	P	H	PH	probably damaging
rs2306122	NP_997079	P	H	PH	probably damaging
rs2306122	NP_997080	P	H	PH	probably damaging
rs2306122	NP_997074	P	H	PH	probably damaging
rs2306131	NP_055844	E	A	EA	benign
rs2306134	NP_005125	S	N	SN	benign
rs2306168	NP_009187	S	F	SF	benign
rs2306174	NP_848592	R	H	RH	benign
rs2306175	NP_848592	L	P	LP	probably damaging
rs2306180	NP_068776	V	M	VM	benign
rs2306182	NP_031386	N	S	NS	benign
rs2306211	NP_006587	A	V	AV	benign
rs2306211	NP_955452	A	V	AV	benign
rs2306235	NP_057358	P	A	PA	benign
rs2306236	NP_005461	G	A	GA	possibly damaging
rs2306242	NP_005246	K	R	KR	benign
rs2306259	NP_077726	G	D	GD	benign
rs2306265	XP_043613	V	I	VI	benign
rs2306277	XP_375185	L	P	LP	probably damaging
rs2306282	NP_006437	N	S	NS	benign
rs2306283	NP_006437	D	N	DN	benign
rs2306322	NP_055582	G	S	GS	possibly damaging
rs2306323	NP_055582	S	R	SR	benign
rs2306331	NP_031373	C	R	CR	possibly damaging
rs2306369	XP_371706	T	A	TA	benign
rs2306384	NP_038460	G	S	GS	benign
rs2306387	NP_612440	G	R	GR	possibly damaging
rs2306392	NP_059136	L	P	LP	possibly damaging
rs2306407	NP_054742	I	V	IV	benign
rs2306448	XP_211908	R	C	RC	probably damaging
rs2306465	NP_009212	P	L	PL	probably damaging

rs2306512	NP_060566	S	N	SN	benign
rs2306513	NP_060566	Y	H	YH	possibly damaging
rs2306536	NP_060693	V	M	VM	benign
rs2306541	NP_060693	A	V	AV	benign
rs2306575	NP_008832	H	Q	HQ	possibly damaging
rs2306598	NP_002904	L	V	LV	benign
rs2306618	NP_001173	T	A	TA	benign
rs2306636	NP_596870	S	N	SN	benign
rs2306640	NP_073586	G	S	GS	benign
rs2306675	NP_387450	D	E	DE	possibly damaging
rs2306675	NP_004352	D	E	DE	possibly damaging
rs2306691	NP_002323	N	D	ND	benign
rs2306715	NP_003719	G	V	GV	probably damaging
rs2306727	NP_055447	I	V	IV	benign
rs2306734	NP_003909	V	A	VA	benign
rs2306735	NP_003909	H	R	HR	possibly damaging
rs2306764	NP_976227	A	T	AT	benign
rs2306764	NP_005442	A	T	AT	benign
rs2306765	NP_112579	F	L	FL	benign
rs2306765	NP_722545	F	L	FL	possibly damaging
rs2306785	NP_004692	V	I	VI	benign
rs2306852	NP_060634	M	T	MT	possibly damaging
rs2306857	NP_056227	I	F	IF	benign
rs2306858	NP_056227	P	S	PS	possibly damaging
rs2306872	NP_775949	R	Q	RQ	benign
rs2306890	XP_371655	L	I	LI	benign
rs2306894	NP_057595	G	A	GA	benign
rs2306897	NP_150594	R	L	RL	probably damaging
rs2306897	NP_006449	R	L	RL	probably damaging
rs2306899	XP_291291	T	M	TM	benign
rs2306914	NP_149062	T	M	TM	benign
rs2306914	NP_892006	T	M	TM	benign
rs2306916	NP_149062	L	M	LM	benign
rs2306916	NP_892006	M	L	ML	benign
rs2306923	NP_612398	R	H	RH	benign
rs2306942	NP_000417	V	M	VM	benign
rs2306983	NP_777567	P	L	PL	probably damaging
rs2306985	NP_000244	H	Q	HQ	benign
rs2306986	NP_000244	E	D	ED	benign
rs2307044	NP_003808	L	V	LV	benign
rs2307091	XP_371619	E	V	EV	possibly damaging
rs2307092	XP_371619	E	K	EK	benign
rs2307111	NP_689621	H	R	HR	benign
rs2307145	NP_001550	Q	H	QH	possibly damaging
rs2307146	NP_001550	I	V	IV	benign
rs2307148	NP_001550	G	R	GR	possibly damaging

rs2307153	NP_001550	G	D	GD	benign
rs2307154	NP_001550	A	V	AV	benign
rs2307166	NP_006288	R	W	RW	probably damaging
rs2307167	NP_006288	R	Q	RQ	benign
rs2307171	NP_006288	V	M	VM	benign
rs2307180	NP_006288	E	K	EK	benign
rs2307184	NP_006288	S	Y	SY	possibly damaging
rs2307186	NP_006288	R	L	RL	possibly damaging
rs2307188	NP_006288	K	N	KN	benign
rs2307191	NP_006288	P	L	PL	probably damaging
rs2307198	NP_077734	K	R	KR	benign
rs2307227	NP_001257	D	E	DE	benign
rs2307240	NP_001257	S	N	SN	benign
rs2307243	NP_001257	R	H	RH	benign
rs2307254	NP_004498	Q	K	QK	benign
rs2307255	NP_004498	I	V	IV	benign
rs2307261	NP_004498	S	G	SG	benign
rs2307279	NP_003697	A	P	AP	benign
rs2307282	NP_003697	R	G	RG	probably damaging
rs2307289	NP_003916	S	P	SP	benign
rs2307293	NP_003916	D	H	DH	possibly damaging
rs2307296	NP_003916	C	R	CR	benign
rs2307298	NP_003916	I	T	IT	possibly damaging
rs2307302	NP_056979	S	P	SP	possibly damaging
rs2307303	NP_056979	T	M	TM	possibly damaging
rs2307306	NP_056979	R	W	RW	probably damaging
rs2307307	NP_056979	L	F	LF	benign
rs2307311	NP_004517	V	M	VM	benign
rs2307313	NP_004517	A	T	AT	benign
rs2307314	NP_004517	L	F	LF	benign
rs2307328	NP_002379	F	L	FL	benign
rs2307329	NP_002379	D	V	DV	probably damaging
rs2307332	NP_002379	S	G	SG	possibly damaging
rs2307334	NP_006730	S	T	ST	benign
rs2307340	NP_006730	T	S	TS	benign
rs2307347	NP_877577	G	S	GS	possibly damaging
rs2307348	NP_005907	R	Q	RQ	possibly damaging
rs2307361	NP_006181	M	K	MK	probably damaging
rs2307365	NP_862820	Q	K	QK	benign
rs2307365	NP_036513	Q	K	QK	benign
rs2307370	NP_862820	R	C	RC	probably damaging
rs2307370	NP_036513	R	C	RC	probably damaging
rs2307371	NP_862820	Q	R	QR	possibly damaging
rs2307371	NP_036513	Q	R	QR	possibly damaging
rs2307372	NP_862820	T	P	TP	possibly damaging
rs2307372	NP_036513	T	P	TP	possibly damaging

rs2307374	NP_862820	I	V	IV	benign
rs2307374	NP_036513	I	V	IV	benign
rs2307381	NP_862820	T	M	TM	benign
rs2307381	NP_036513	T	M	TM	benign
rs2307389	NP_862820	V	I	VI	benign
rs2307389	NP_036513	V	I	VI	benign
rs2307394	NP_859525	N	S	NS	benign
rs2307394	NP_859526	N	S	NS	benign
rs2307394	NP_002543	N	S	NS	benign
rs2307397	NP_859525	L	V	LV	benign
rs2307397	NP_859526	L	V	LV	benign
rs2307397	NP_002543	L	V	LV	benign
rs2307402	NP_859531	R	C	RC	probably damaging
rs2307402	NP_002544	R	C	RC	probably damaging
rs2307413	NP_859531	K	N	KN	benign
rs2307413	NP_002544	K	N	KN	benign
rs2307437	NP_002684	P	S	PS	benign
rs2307440	NP_002684	R	C	RC	probably damaging
rs2307441	NP_002684	E	G	EG	benign
rs2307442	NP_002684	R	W	RW	possibly damaging
rs2307447	NP_002684	R	C	RC	benign
rs2307450	NP_002684	E	K	EK	benign
rs2307456	NP_006493	G	V	GV	possibly damaging
rs2307486	NP_001632	I	V	IV	benign
rs2307486	NP_542379	I	V	IV	benign
rs2307486	NP_542380	I	V	IV	benign
rs2307491	NP_000114	S	C	SC	possibly damaging
rs2307492	NP_001451	F	S	FS	probably damaging
rs2308312	NP_002425	R	Q	RQ	benign
rs2308313	NP_002425	R	C	RC	probably damaging
rs2308315	NP_002425	P	L	PL	probably damaging
rs2308317	NP_000240	V	M	VM	benign
rs2308318	NP_002403	G	R	GR	probably damaging
rs2308320	NP_002403	E	D	ED	benign
rs2308321	NP_002403	I	V	IV	benign
rs2308322	NP_002403	P	S	PS	benign
rs2308330	NP_005505	L	R	LR	benign
rs2308331	NP_005505	M	T	MT	benign
rs2308335	NP_005505	S	W	SW	benign
rs2308339	NP_005505	L	V	LV	benign
rs2308468	NP_005505	E	D	ED	benign
rs2308473	NP_005505	D	E	DE	benign
rs2308474	NP_005505	K	T	KT	benign
rs2308480	NP_005505	I	L	IL	benign
rs2308481	NP_005505	A	V	AV	benign
rs2308483	NP_005505	A	G	AG	benign



rs2308487	NP_005505	R	G	RG	benign
rs2308488	NP_005505	A	T	AT	benign
rs2308489	NP_005505	P	L	PL	benign
rs2308490	NP_005505	E	Q	EQ	benign
rs2308497	NP_005505	K	E	KE	benign
rs2308498	NP_005505	L	F	LF	benign
rs2308499	NP_005505	L	R	LR	possibly damaging
rs2308500	NP_005505	E	K	EK	benign
rs2308503	NP_005505	V	I	VI	benign
rs2308514	NP_005505	I	V	IV	benign
rs2308515	NP_005505	I	M	IM	benign
rs2308516	NP_005505	G	A	GA	benign
rs2308520	NP_005505	M	V	MV	benign
rs2308598	NP_005505	R	G	RG	probably damaging
rs2308599	NP_005505	E	K	EK	benign
rs2308601	NP_005505	G	R	GR	probably damaging
rs2308602	NP_005505	K	E	KE	possibly damaging
rs2308603	NP_005505	D	N	DN	benign
rs2308604	NP_005505	A	T	AT	benign
rs2308662	NP_002115	A	S	AS	benign
rs2308664	NP_002115	R	K	RK	benign
rs2308758	NP_002115	K	E	KE	benign
rs2308760	NP_002115	S	A	SA	benign
rs2308765	NP_002116	N	S	NS	benign
rs2308765	NP_002115	S	N	SN	benign
rs2308766	NP_002115	R	L	RL	benign
rs2308766	NP_002116	R	L	RL	benign
rs2308768	NP_002115	A	T	AT	benign
rs2308768	NP_002116	A	T	AT	benign
rs2308769	NP_002115	V	M	VM	benign
rs2308769	NP_002116	V	M	VM	benign
rs2308771	NP_002115	Q	H	QH	benign
rs2308771	NP_002116	Q	H	QH	benign
rs2308773	NP_002115	V	F	VF	benign
rs2308773	NP_002116	V	F	VF	benign
rs2308775	NP_002115	R	Q	RQ	benign
rs2308775	NP_002116	R	Q	RQ	benign
rs2308780	NP_002115	T	M	TM	benign
rs2308784	NP_002115	Q	P	QP	benign
rs2308785	NP_002115	T	R	TR	benign
rs2308786	NP_002115	L	S	LS	benign
rs2308786	NP_072049	L	S	LS	benign
rs2308787	NP_072049	E	Q	EQ	benign
rs2308788	NP_072049	R	C	RC	benign
rs2308789	NP_072049	R	L	RL	benign
rs2308790	NP_072049	Y	H	YH	benign

rs2308791	NP_072049	Y	F	YF	benign
rs2308797	NP_072049	L	V	LV	benign
rs2308798	NP_072049	L	P	LP	probably damaging
rs2308799	NP_072049	T	R	TR	benign
rs2308800	NP_072049	V	I	VI	benign
rs2308801	NP_072049	V	D	VD	benign
rs2308803	NP_072049	S	Y	SY	benign
rs2308804	NP_072049	L	I	LI	benign
rs2308805	NP_072049	R	Q	RQ	benign
rs2308809	NP_072049	G	A	GA	benign
rs2308816	NP_072049	V	F	VF	benign
rs2308819	NP_072049	A	P	AP	possibly damaging
rs2308883	NP_002113	S	A	SA	benign
rs2308885	NP_002113	A	S	AS	benign
rs2308891	NP_064440	E	K	EK	benign
rs2308891	NP_002113	Q	K	QK	benign
rs2308903	NP_291032	A	T	AT	benign
rs2308907	NP_291032	P	T	PT	possibly damaging
rs2308910	NP_291032	E	D	ED	benign
rs2308911	NP_291032	M	L	ML	benign
rs2308912	NP_291032	M	K	MK	possibly damaging
rs2308916	NP_291032	A	T	AT	benign
rs2308917	NP_291032	L	S	LS	benign
rs2308918	NP_291032	T	I	TI	benign
rs2308919	NP_291032	L	V	LV	benign
rs2308920	NP_291032	L	S	LS	benign
rs2308921	NP_291032	L	F	LF	benign
rs2308922	NP_291032	T	A	TA	benign
rs2308925	NP_291032	P	A	PA	probably damaging
rs2308930	NP_291032	L	P	LP	benign
rs2308934	NP_291032	T	A	TA	possibly damaging
rs2308935	NP_291032	T	P	TP	benign
rs2308938	NP_127463	L	V	LV	benign
rs2308938	NP_001220	L	V	LV	benign
rs2308939	NP_001220	R	S	RS	benign
rs2308941	NP_127463	T	I	TI	benign
rs2308941	NP_001220	T	I	TI	benign
rs2308949	NP_001220	G	R	GR	possibly damaging
rs2308950	NP_001220	R	H	RH	possibly damaging
rs2308951	NP_596868	A	G	AG	benign
rs2308957	NP_596868	G	D	GD	possibly damaging
rs2309428	NP_963923	D	E	DE	benign
rs2309428	NP_004808	D	E	DE	benign
rs2309689	NP_000009	G	D	GD	possibly damaging
rs2309808	XP_085578	R	H	RH	possibly damaging
rs2311020	NP_113663	L	P	LP	possibly damaging

rs2312195	XP_172341	K	Q	KQ	benign
rs2312296	NP_005923	A	V	AV	benign
rs2312365	XP_291200	E	K	EK	benign
rs2312366	XP_376618	E	G	EG	possibly damaging
rs2312367	XP_376618	W	R	WR	possibly damaging
rs2312368	XP_291200	G	R	GR	possibly damaging
rs2314078	NP_005620	R	C	RC	benign
rs2314079	NP_005620	Q	K	QK	benign
rs2314668	NP_036313	E	Q	EQ	benign
rs2314808	NP_695024	E	K	EK	benign
rs2314808	NP_000616	E	K	EK	possibly damaging
rs2315122	NP_064445	I	V	IV	benign
rs2315123	NP_064445	F	L	FL	benign
rs2315124	NP_064445	F	L	FL	benign
rs2315126	NP_064445	Y	F	YF	benign
rs2315127	NP_064445	V	F	VF	possibly damaging
rs2315702	XP_497024	P	L	PL	benign
rs2315702	XP_497089	P	L	PL	probably damaging
rs2316334	XP_496418	F	S	FS	benign
rs2317672	NP_003543	A	V	AV	benign
rs2317941	XP_211858	M	T	MT	probably damaging
rs2317942	XP_211858	C	R	CR	benign
rs2317943	XP_211858	I	T	IT	possibly damaging
rs2318277	XP_372500	T	A	TA	benign
rs2318279	XP_372500	P	S	PS	benign
rs2318280	XP_372500	R	L	RL	benign
rs2318549	XP_497391	E	K	EK	benign
rs2319055	NP_859076	P	L	PL	probably damaging
rs2319796	NP_872308	A	D	AD	benign
rs2319797	NP_872308	S	T	ST	benign
rs2319850	XP_037817	A	T	AT	benign
rs2320123	NP_072166	K	Q	KQ	benign
rs2320227	NP_149049	R	C	RC	probably damaging
rs2320231	NP_149049	R	H	RH	benign
rs2322334	XP_209910	V	A	VA	benign
rs2322335	XP_209910	M	R	MR	probably damaging
rs2322336	XP_209910	R	H	RH	benign
rs2322337	XP_209910	S	P	SP	possibly damaging
rs2322339	XP_209910	V	I	VI	benign
rs2322340	XP_209910	G	R	GR	benign
rs2322343	XP_209910	R	C	RC	possibly damaging
rs2322659	NP_002290	N	S	NS	possibly damaging
rs2324645	NP_060646	I	T	IT	benign
rs2326391	NP_005144	P	S	PS	benign
rs2330126	NP_543029	D	N	DN	benign
rs2330126	NP_954578	D	N	DN	benign

rs2330573	NP_057533	V	A	VA	benign
rs2330724	XP_371424	V	M	VM	benign
rs2330836	NP_038347	A	T	AT	possibly damaging
rs2330837	NP_038347	S	L	SL	probably damaging
rs2330838	NP_038347	K	E	KE	benign
rs2330842	NP_038347	G	V	GV	probably damaging
rs2330991	NP_000487	R	W	RW	probably damaging
rs2330992	NP_000487	Q	R	QR	possibly damaging
rs2331251	NP_690054	S	F	SF	benign
rs2331251	NP_071364	S	F	SF	benign
rs2331251	NP_690055	S	F	SF	possibly damaging
rs2331251	NP_690056	S	F	SF	possibly damaging
rs2331995	XP_046531	N	D	ND	benign
rs2332285	NP_612144	R	K	RK	benign
rs2332855	NP_004636	K	R	KR	benign
rs2332856	NP_004636	I	M	IM	benign
rs2335052	NP_116027	A	T	AT	benign
rs2335238	NP_060677	S	T	ST	benign
rs2335390	NP_689653	I	M	IM	benign
rs2336029	NP_689845	V	M	VM	benign
rs2336219	NP_036231	D	N	DN	benign
rs2336573	NP_057663	G	R	GR	possibly damaging
rs2338445	XP_290482	K	N	KN	benign
rs2338445	XP_350781	K	N	KN	benign
rs2338541	XP_374801	Q	H	QH	benign
rs2338541	XP_084445	Q	H	QH	benign
rs2339241	NP_000140	S	P	SP	benign
rs2339844	NP_065142	C	G	CG	benign
rs2340550	NP_848620	S	F	SF	possibly damaging
rs2340601	NP_061868	V	I	VI	benign
rs2340664	NP_002656	T	A	TA	possibly damaging
rs2340665	NP_002656	P	A	PA	possibly damaging
rs2340676	XP_496559	R	H	RH	benign
rs2340885	NP_073728	V	M	VM	benign
rs2340917	NP_077310	M	T	MT	benign
rs2340940	NP_955453	C	F	CF	probably damaging
rs2341097	NP_787071	V	M	VM	benign
rs2341432	XP_291806	L	H	LH	probably damaging
rs2341433	XP_291806	A	T	AT	benign
rs2341434	XP_291806	H	R	HR	probably damaging
rs2342767	NP_631904	V	L	VL	benign
rs2343914	XP_496448	E	G	EG	possibly damaging
rs2344784	XP_370839	D	H	DH	benign
rs2344784	XP_496096	D	H	DH	benign
rs2344786	XP_370839	I	M	IM	benign
rs2344786	XP_496096	I	M	IM	benign

rs2344789	XP_370839	I	V	IV	benign
rs2344789	XP_496096	I	V	IV	benign
rs2345793	XP_376554	S	L	SL	benign
rs2345794	XP_376554	E	G	EG	possibly damaging
rs2346086	NP_004658	A	T	AT	benign
rs2347131	NP_940908	A	T	AT	benign
rs2347132	NP_940908	T	M	TM	benign
rs2348049	NP_848658	F	Y	FY	benign
rs2348353	NP_872398	T	A	TA	benign
rs2351198	XP_294634	E	D	ED	benign
rs2351312	NP_598000	N	Y	NY	probably damaging
rs2353008	NP_085076	S	F	SF	possibly damaging
rs2353008	NP_003771	S	F	SF	possibly damaging
rs2353055	NP_683759	S	T	ST	benign
rs2353056	NP_683759	S	G	SG	benign
rs2353056	NP_060514	S	G	SG	benign
rs2353552	NP_861524	H	Q	HQ	benign
rs2354336	XP_371956	G	V	GV	benign
rs2355434	NP_002772	K	N	KN	benign
rs2355436	NP_002772	L	P	LP	benign
rs2355442	NP_002771	V	A	VA	benign
rs2355447	NP_002775	G	R	GR	benign
rs2355450	NP_002775	I	N	IN	benign
rs2355877	NP_116269	R	H	RH	benign
rs2356437	XP_371174	C	R	CR	benign
rs2356590	NP_001072	P	T	PT	probably damaging
rs2356643	NP_036355	Y	C	YC	probably damaging
rs2356696	NP_997625	T	A	TA	possibly damaging
rs2358770	XP_370968	R	K	RK	benign
rs2358962	NP_597730	E	D	ED	benign
rs2359016	NP_659484	K	E	KE	benign
rs2359021	XP_497652	C	Y	CY	benign
rs2359022	XP_497652	V	A	VA	benign
rs2359074	XP_497653	I	V	IV	benign
rs2359074	XP_377566	I	V	IV	benign
rs2359075	XP_497653	G	R	GR	benign
rs2359075	XP_377566	G	R	GR	benign
rs2359263	XP_497653	Y	C	YC	benign
rs2359264	XP_497653	N	D	ND	benign
rs2359265	XP_497653	Y	C	YC	benign
rs2359266	XP_497653	D	H	DH	benign
rs2359267	XP_497653	R	K	RK	benign
rs2359268	XP_497653	K	N	KN	benign
rs2359270	XP_497653	T	A	TA	benign
rs2359294	XP_372763	W	R	WR	benign
rs2359484	XP_291395	L	I	LI	benign

rs2359486	XP_291395	D	N	DN	benign
rs2359488	XP_291395	E	Q	EQ	benign
rs2359489	XP_291395	E	D	ED	benign
rs2359490	XP_291395	D	N	DN	benign
rs2359491	XP_291395	D	N	DN	benign
rs2359492	XP_291395	E	D	ED	benign
rs2359493	XP_291395	D	N	DN	benign
rs2360543	NP_065931	Q	H	QH	benign
rs2360887	NP_733751	V	I	VI	benign
rs2361159	XP_372198	S	L	SL	benign
rs2361503	XP_371603	E	G	EG	possibly damaging
rs2363198	NP_659731	V	M	VM	benign
rs2363468	NP_055855	S	L	SL	benign
rs2363681	XP_372991	R	G	RG	possibly damaging
rs2363956	NP_689576	L	W	LW	benign
rs2364172	NP_002198	Q	K	QK	benign
rs2364448	NP_055328	L	I	LI	benign
rs2364450	NP_055328	G	E	GE	benign
rs2364452	NP_055328	R	S	RS	benign
rs2364600	NP_036423	A	V	AV	benign
rs2364652	NP_002198	S	P	SP	benign
rs2364653	NP_002198	F	L	FL	benign
rs2364782	NP_056957	E	D	ED	benign
rs2364790	NP_006216	G	R	GR	benign
rs2365218	NP_036444	P	S	PS	benign
rs2365227	NP_056952	V	A	VA	benign
rs2365227	NP_055326	V	A	VA	benign
rs2365718	NP_006608	S	N	SN	benign
rs2365725	NP_849159	E	G	EG	possibly damaging
rs2365902	NP_775901	F	L	FL	benign
rs2365955	NP_002832	A	S	AS	benign
rs2365981	NP_055642	K	E	KE	benign
rs2365982	NP_055642	K	E	KE	benign
rs2366894	NP_057336	S	T	ST	benign
rs2367414	XP_371645	V	I	VI	benign
rs2367810	NP_997212	C	W	CW	probably damaging
rs2368192	NP_872619	W	R	WR	probably damaging
rs2368406	NP_003165	A	P	AP	benign
rs2368406	NP_068506	A	P	AP	benign
rs2369063	NP_000287	L	P	LP	possibly damaging
rs2369066	NP_000287	V	I	VI	benign
rs2369069	NP_000287	Q	R	QR	benign
rs2369220	XP_209728	C	W	CW	probably damaging
rs2369679	NP_689540	K	N	KN	possibly damaging
rs2371800	NP_005056	E	K	EK	benign
rs2372536	NP_004035	T	S	TS	benign

rs2373396	NP_689919	D	H	DH	probably damaging
rs2373397	NP_689919	E	K	EK	benign
rs2373398	NP_689919	E	A	EA	benign
rs2375003	NP_000931	D	N	DN	benign
rs2375213	XP_497306	E	G	EG	possibly damaging
rs2375214	XP_497306	D	E	DE	benign
rs2375465	NP_940853	V	A	VA	benign
rs2375544	NP_061720	P	L	PL	probably damaging
rs2375643	NP_061720	A	T	AT	benign
rs2376291	NP_116738	S	P	SP	benign
rs2376291	NP_116739	S	P	SP	benign
rs2376869	NP_006500	F	I	FI	benign
rs2376876	XP_047462	S	Y	SY	benign
rs2377741	NP_002855	T	P	TP	probably damaging
rs2377921	XP_496581	P	S	PS	benign
rs2378596	NP_073742	R	S	RS	possibly damaging
rs2381002	NP_001161	E	K	EK	possibly damaging
rs2381003	NP_001161	L	V	LV	benign
rs2381004	NP_001161	V	A	VA	benign
rs2382644	NP_694941	W	R	WR	probably damaging
rs2382647	NP_861455	H	N	HN	benign
rs2384572	NP_006560	I	M	IM	benign
rs2384703	NP_443723	I	T	IT	benign
rs2384951	NP_056505	K	Q	KQ	benign
rs2385006	NP_116078	R	H	RH	benign
rs2385070	NP_055418	E	G	EG	probably damaging
rs2385182	XP_030378	P	L	PL	probably damaging
rs2387702	XP_498797	S	N	SN	benign
rs2388544	NP_002119	P	L	PL	benign
rs2388556	NP_055704	V	I	VI	benign
rs2389105	NP_036193	E	D	ED	benign
rs2389105	NP_036192	E	D	ED	benign
rs2389105	NP_005681	E	D	ED	benign
rs2391199	XP_496372	I	V	IV	benign
rs2394051	NP_665916	G	E	GE	possibly damaging
rs2394395	NP_821133	T	S	TS	benign
rs2394397	NP_821133	S	L	SL	probably damaging
rs2394398	NP_821133	R	G	RG	probably damaging
rs2394516	XP_498069	V	A	VA	possibly damaging
rs2395085	NP_115859	Q	R	QR	benign
rs2395378	NP_003181	E	A	EA	possibly damaging
rs2395378	NP_757346	E	A	EA	possibly damaging
rs2395378	NP_757345	E	A	EA	possibly damaging
rs2395617	NP_071330	T	N	TN	benign
rs2396359	NP_065746	S	G	SG	benign
rs2396519	XP_051221	R	P	RP	probably damaging

rs2397084	NP_443104	E	G	EG	possibly damaging
rs2397084	NP_758846	E	G	EG	possibly damaging
rs2397118	NP_714543	V	I	VI	benign
rs2397965	NP_659461	R	Q	RQ	benign
rs2401751	NP_008970	F	L	FL	benign
rs2401930	NP_036349	I	V	IV	benign
rs2401931	NP_036349	G	D	GD	benign
rs2401936	NP_036349	T	A	TA	benign
rs2401937	NP_036349	G	V	GV	probably damaging
rs2402073	NP_689545	T	K	TK	benign
rs2402730	XP_069743	I	V	IV	benign
rs2402731	XP_069743	G	D	GD	probably damaging
rs2403277	NP_695023	E	K	EK	benign
rs2403768	NP_742021	G	E	GE	possibly damaging
rs2404991	XP_371555	G	S	GS	benign
rs2405432	NP_775933	N	I	NI	probably damaging
rs2405518	NP_003051	F	L	FL	benign
rs2405599	XP_208213	L	P	LP	probably damaging
rs2407145	XP_372640	F	L	FL	benign
rs2407146	XP_372640	D	V	DV	possibly damaging
rs2407498	XP_374973	T	R	TR	probably damaging
rs2409074	XP_370727	S	F	SF	benign
rs2409195	NP_008969	R	L	RL	probably damaging
rs2409496	NP_780294	E	Q	EQ	benign
rs2410832	NP_000204	L	V	LV	benign
rs2411459	XP_370958	P	L	PL	probably damaging
rs2411837	NP_060618	S	T	ST	benign
rs2411936	XP_370958	L	F	LF	benign
rs2411937	XP_370958	A	V	AV	benign
rs2412255	XP_372420	G	R	GR	possibly damaging
rs2412257	XP_372420	A	T	AT	benign
rs2412258	XP_372420	R	Q	RQ	benign
rs2412504	NP_064553	M	V	MV	benign
rs2412512	NP_277045	G	S	GS	benign
rs2412541	NP_733468	A	S	AS	benign
rs2412541	NP_653091	S	A	SA	benign
rs2412946	NP_003095	P	L	PL	probably damaging
rs2412946	XP_007651	P	L	PL	probably damaging
rs2412983	NP_002300	S	F	SF	benign
rs2414185	XP_370865	I	T	IT	possibly damaging
rs2415129	NP_008832	E	G	EG	possibly damaging
rs2416948	NP_620050	K	Q	KQ	benign
rs2416948	NP_110393	K	Q	KQ	benign
rs2416948	NP_620049	K	Q	KQ	benign
rs2417534	XP_071093	V	M	VM	benign
rs2418163	XP_036708	N	S	NS	benign



rs2418645	XP_057040	D	G	DG	possibly damaging
rs2419103	NP_055568	G	D	GD	possibly damaging
rs2419106	NP_055568	R	H	RH	possibly damaging
rs2419108	NP_055568	I	V	IV	benign
rs2419109	NP_055568	M	V	MV	possibly damaging
rs2420824	XP_380121	G	E	GE	possibly damaging
rs2420985	NP_996744	K	N	KN	benign
rs2420986	NP_996744	M	R	MR	benign
rs2421013	NP_653188	R	Q	RQ	benign
rs2421174	XP_370580	G	V	GV	benign
rs2422000	XP_371496	E	K	EK	benign
rs2422490	NP_004575	L	Q	LQ	benign
rs2422666	NP_542970	V	L	VL	benign
rs2422857	NP_068598	I	T	IT	benign
rs2422864	XP_045421	R	G	RG	benign
rs2424943	NP_872325	G	W	GW	possibly damaging
rs2425015	XP_371398	K	E	KE	benign
rs2425049	NP_848563	R	Q	RQ	benign
rs2426631	XP_371402	S	P	SP	possibly damaging
rs2427282	NP_005551	R	H	RH	possibly damaging
rs2427283	NP_005551	V	M	VM	benign
rs2427284	NP_005551	F	S	FS	possibly damaging
rs2427286	NP_005551	K	E	KE	benign
rs2429292	XP_371809	A	V	AV	benign
rs2429294	XP_371809	A	V	AV	benign
rs2429387	NP_006030	H	R	HR	possibly damaging
rs2429467	NP_060488	G	R	GR	benign
rs2429485	XP_370541	D	G	DG	benign
rs2429591	XP_290401	A	P	AP	possibly damaging
rs2429594	XP_290401	L	M	LM	benign
rs2429594	XP_496895	M	L	ML	benign
rs2429878	XP_495908	N	D	ND	benign
rs2431081	NP_861441	I	M	IM	benign
rs2431189	NP_060701	I	T	IT	possibly damaging
rs2431352	NP_006624	E	D	ED	benign
rs2431363	NP_006624	V	I	VI	benign
rs2431999	NP_940894	K	N	KN	benign
rs2432290	NP_060460	P	S	PS	benign
rs2432290	XP_208908	S	P	SP	benign
rs2432306	XP_208908	A	T	AT	benign
rs2432306	NP_060460	T	A	TA	benign
rs2432318	XP_372632	D	A	DA	benign
rs2432359	XP_496159	R	W	RW	probably damaging
rs2432404	NP_000287	R	Q	RQ	benign
rs2432405	NP_000287	T	M	TM	benign
rs2432990	XP_495908	N	D	ND	benign

rs2432992	XP_495908	R	T	RT	benign
rs2432993	XP_495908	A	V	AV	benign
rs2433031	NP_065705	Q	H	QH	benign
rs2433331	XP_372046	W	R	WR	benign
rs2433708	XP_496581	R	Q	RQ	benign
rs2434470	NP_631917	D	E	DE	benign
rs2434881	XP_496150	H	R	HR	benign
rs2434881	XP_496152	H	R	HR	benign
rs2434882	XP_496150	H	D	HD	benign
rs2434882	XP_496152	H	D	HD	benign
rs2434883	XP_496150	P	R	PR	probably damaging
rs2434883	XP_496152	P	R	PR	probably damaging
rs2434980	NP_002308	G	E	GE	probably damaging
rs2435322	NP_619639	L	V	LV	benign
rs2435322	NP_733842	L	V	LV	benign
rs2435381	NP_061060	P	S	PS	possibly damaging
rs2436487	NP_064560	G	R	GR	benign
rs2436489	NP_699190	Q	L	QL	benign
rs2437100	NP_003293	R	Q	RQ	benign
rs2437150	NP_114407	L	P	LP	benign
rs2437323	NP_078953	A	S	AS	benign
rs2438586	XP_371142	F	L	FL	benign
rs2438587	XP_371142	N	K	NK	benign
rs2439928	NP_849164	G	R	GR	probably damaging
rs2440267	XP_370837	N	H	NH	benign
rs2440267	XP_370917	N	H	NH	benign
rs2441582	NP_036316	S	N	SN	benign
rs2441583	NP_997188	L	M	LM	benign
rs2442425	XP_377159	P	L	PL	probably damaging
rs2442426	XP_377159	M	T	MT	benign
rs2442455	NP_006522	M	I	MI	benign
rs2442455	NP_783195	M	I	MI	benign
rs2442513	NP_078872	S	R	SR	possibly damaging
rs2442915	XP_350781	D	N	DN	benign
rs2442915	XP_495809	N	D	ND	benign
rs2444257	NP_060621	N	Y	NY	benign
rs2444258	NP_060621	V	I	VI	benign
rs2444263	NP_060621	G	S	GS	benign
rs2445179	NP_473373	S	L	SL	possibly damaging
rs2445180	NP_473373	N	K	NK	possibly damaging
rs2445603	NP_997238	E	Q	EQ	benign
rs2446056	NP_975011	V	I	VI	benign
rs2446693	NP_067673	T	P	TP	possibly damaging
rs2446693	NP_003465	T	P	TP	possibly damaging
rs2447220	NP_055474	R	H	RH	possibly damaging
rs2447221	NP_055474	G	A	GA	benign

rs2447437	NP_741996	V	L	VL	benign
rs2447571	NP_000686	G	S	GS	benign
rs2447703	NP_031359	E	K	EK	benign
rs2447883	XP_496323	E	V	EV	probably damaging
rs2448010	NP_060960	G	S	GS	benign
rs2448628	XP_372092	A	V	AV	benign
rs2448628	XP_497031	A	V	AV	benign
rs2449134	XP_291859	S	N	SN	probably damaging
rs2449148	XP_372390	Y	C	YC	probably damaging
rs2449331	NP_005766	T	I	TI	benign
rs2450267	NP_110436	E	K	EK	benign
rs2452505	NP_115815	L	V	LV	benign
rs2452524	XP_370863	H	N	HN	benign
rs2452600	NP_006448	S	F	SF	benign
rs2452755	XP_371758	K	E	KE	benign
rs2452756	XP_371758	A	T	AT	benign
rs2453228	NP_997222	Q	E	QE	benign
rs2454206	XP_042301	I	V	IV	benign
rs2454726	NP_006009	R	H	RH	possibly damaging
rs2454727	NP_006009	M	I	MI	possibly damaging
rs2455230	NP_006624	F	L	FL	benign
rs2455994	XP_378185	R	H	RH	benign
rs2456022	XP_166869	T	P	TP	benign
rs2456385	XP_375344	L	F	LF	benign
rs2456607	XP_290342	D	N	DN	benign
rs2456610	XP_290342	H	R	HR	benign
rs2456611	XP_290342	I	T	IT	benign
rs2456613	XP_290342	P	L	PL	possibly damaging
rs2456647	XP_370968	R	H	RH	possibly damaging
rs2456648	XP_370968	A	D	AD	benign
rs2458236	NP_787954	L	F	LF	benign
rs2458502	XP_496917	T	A	TA	benign
rs2458860	NP_997238	C	W	CW	benign
rs2458862	NP_997238	N	D	ND	benign
rs2459568	NP_057655	N	Y	NY	possibly damaging
rs2459647	XP_497879	V	A	VA	benign
rs2460018	XP_372632	I	V	IV	benign
rs2460678	XP_496769	V	A	VA	benign
rs2460827	NP_006503	Y	C	YC	benign
rs2460865	NP_078898	L	F	LF	benign
rs2460866	NP_078898	R	K	RK	benign
rs2460946	NP_852118	S	F	SF	possibly damaging
rs2461280	NP_624302	V	A	VA	benign
rs2461355	XP_496239	I	T	IT	benign
rs2461356	XP_496239	H	R	HR	benign
rs2462034	XP_007651	Q	R	QR	benign

rs2462312	NP_065943	A	T	AT	benign
rs2462684	XP_496869	S	W	SW	possibly damaging
rs2462961	NP_061889	K	E	KE	benign
rs2463042	NP_975011	V	E	VE	benign
rs2463043	NP_975011	T	K	TK	benign
rs2463274	NP_742017	K	N	KN	benign
rs2463274	XP_496895	N	K	NK	benign
rs2463275	XP_496895	M	T	MT	benign
rs2463447	NP_689896	R	Q	RQ	benign
rs2463899	NP_620155	V	E	VE	benign
rs2463982	XP_496959	L	P	LP	possibly damaging
rs2463982	XP_496966	L	P	LP	possibly damaging
rs2464196	NP_000536	S	N	SN	benign
rs2464726	NP_620155	N	S	NS	benign
rs2464896	XP_496323	K	E	KE	benign
rs2465811	NP_002828	G	S	GS	benign
rs2466517	NP_631916	A	T	AT	benign
rs2466612	XP_370662	V	I	VI	benign
rs2466613	XP_370662	G	R	GR	benign
rs2466614	XP_370662	I	V	IV	benign
rs2466615	XP_370662	I	L	IL	benign
rs2466773	XP_045581	T	A	TA	benign
rs2467642	NP_004769	A	V	AV	benign
rs2467827	NP_054799	G	R	GR	benign
rs2468774	NP_473373	F	L	FL	benign
rs2468844	NP_110381	H	R	HR	benign
rs2469791	NP_036484	R	C	RC	benign
rs2469826	NP_853515	T	S	TS	benign
rs2469887	NP_060340	A	V	AV	benign
rs2469887	NP_821174	A	V	AV	benign
rs2470103	NP_057216	R	Q	RQ	benign
rs2470449	NP_689853	S	T	ST	benign
rs2471952	NP_002776	V	I	VI	benign
rs2472082	NP_004736	S	R	SR	possibly damaging
rs2472205	NP_004306	D	E	DE	benign
rs2472205	NP_808592	D	E	DE	benign
rs2472458	NP_005493	D	N	DN	possibly damaging
rs2472553	NP_000733	T	I	TI	benign
rs2472617	NP_060960	S	N	SN	benign
rs2472618	NP_060960	R	L	RL	benign
rs2472647	NP_114382	V	I	VI	benign
rs2472647	NP_061735	V	I	VI	benign
rs2473928	NP_665803	T	A	TA	benign
rs2474085	XP_375931	R	L	RL	benign
rs2474297	NP_997280	R	G	RG	possibly damaging
rs2474329	XP_290462	R	C	RC	possibly damaging

rs2475298	NP_009121	K	E	KE	benign
rs2476001	XP_498321	R	Q	RQ	benign
rs2476601	NP_036543	R	W	RW	probably damaging
rs2476601	NP_057051	W	R	WR	probably damaging
rs2477120	NP_055625	Q	E	QE	benign
rs2477599	NP_063944	V	D	VD	probably damaging
rs2478568	NP_689938	V	I	VI	benign
rs2478703	XP_495840	L	P	LP	benign
rs2478703	XP_495842	L	P	LP	benign
rs2479279	XP_497069	R	S	RS	benign
rs2479279	XP_030729	S	R	SR	benign
rs2479280	XP_497069	T	A	TA	benign
rs2479282	XP_497069	G	R	GR	benign
rs2479282	XP_030729	R	G	RG	possibly damaging
rs2479288	XP_497069	R	Q	RQ	benign
rs2479295	XP_030729	I	M	IM	benign
rs2479295	XP_497069	M	I	MI	benign
rs2479383	NP_002787	I	T	IT	benign
rs2479580	XP_030729	A	S	AS	benign
rs2480146	NP_068800	I	V	IV	benign
rs2480345	NP_065803	G	A	GA	benign
rs2480373	NP_000712	R	Q	RQ	benign
rs2480452	NP_066954	S	L	SL	benign
rs2480452	NP_821067	S	L	SL	benign
rs2480452	NP_821068	S	L	SL	benign
rs2480452	NP_821070	S	L	SL	benign
rs2480452	NP_821069	S	L	SL	benign
rs2480912	XP_372092	R	W	RW	probably damaging
rs2480912	XP_497031	W	R	WR	probably damaging
rs2480920	NP_001798	A	T	AT	benign
rs2480921	NP_001798	K	E	KE	possibly damaging
rs2481101	XP_034717	E	G	EG	possibly damaging
rs2482146	NP_958861	I	V	IV	benign
rs2482269	NP_954586	L	S	LS	benign
rs2482270	NP_954586	D	A	DA	probably damaging
rs2482271	NP_954586	V	A	VA	benign
rs2482272	NP_954586	L	P	LP	benign
rs2482273	NP_954586	K	Q	KQ	benign
rs2482273	NP_954714	K	Q	KQ	benign
rs2482275	NP_954586	H	R	HR	benign
rs2482275	NP_954714	H	R	HR	benign
rs2482277	NP_954586	E	A	EA	possibly damaging
rs2482302	NP_115925	G	R	GR	probably damaging
rs2482437	NP_005493	E	K	EK	benign
rs2482538	XP_498307	N	S	NS	benign
rs2482539	XP_498307	F	I	FI	benign

rs2483689	NP_078779	P	A	PA	possibly damaging
rs2484180	XP_370541	C	G	CG	probably damaging
rs2484842	NP_852660	V	A	VA	benign
rs2484842	NP_114118	V	A	VA	benign
rs2484844	NP_852660	E	K	EK	benign
rs2484844	NP_114118	E	K	EK	benign
rs2485319	NP_002548	T	M	TM	benign
rs2486188	NP_006465	G	A	GA	benign
rs2486188	NP_938203	G	A	GA	benign
rs2486668	NP_067003	D	E	DE	benign
rs2486668	NP_937816	D	E	DE	benign
rs2486713	XP_496341	L	M	LM	benign
rs2486714	XP_496341	R	K	RK	benign
rs2486717	XP_496341	T	K	TK	benign
rs2487068	NP_060814	V	I	VI	benign
rs2487184	XP_371111	R	C	RC	possibly damaging
rs2487999	NP_079204	A	T	AT	benign
rs2488269	NP_839943	G	R	GR	probably damaging
rs2488535	XP_291625	R	Q	RQ	benign
rs2488535	XP_291638	R	Q	RQ	benign
rs2488601	NP_775960	A	T	AT	benign
rs2488602	NP_775960	A	V	AV	benign
rs2490899	XP_350781	L	S	LS	benign
rs2490899	XP_290482	S	L	SL	benign
rs2491014	NP_775965	W	C	WC	benign
rs2491079	NP_004406	G	R	GR	possibly damaging
rs2491080	NP_004406	K	N	KN	benign
rs2491097	NP_055240	S	L	SL	possibly damaging
rs2491097	NP_899068	S	L	SL	possibly damaging
rs2491132	XP_375712	V	I	VI	benign
rs2491538	XP_372094	P	R	PR	probably damaging
rs2491581	XP_498326	Q	K	QK	possibly damaging
rs2491581	XP_498328	Q	K	QK	possibly damaging
rs2492215	NP_997188	P	L	PL	benign
rs2492216	NP_997188	G	D	GD	possibly damaging
rs2492217	NP_997188	S	Y	SY	benign
rs2493292	NP_071397	P	L	PL	benign
rs2493292	NP_955533	P	L	PL	benign
rs2493483	NP_958861	T	A	TA	benign
rs2493702	XP_497240	Q	R	QR	benign
rs2493702	XP_497242	R	Q	RQ	benign
rs2494620	NP_060686	Q	R	QR	benign
rs2494876	NP_068771	S	P	SP	benign
rs2495583	XP_497231	M	V	MV	possibly damaging
rs2496423	XP_292193	S	P	SP	probably damaging
rs2496424	XP_292193	M	K	MK	probably damaging

rs2496425	XP_292193	F	S	FS	possibly damaging
rs2497218	NP_954863	V	I	VI	benign
rs2497218	NP_570141	V	I	VI	benign
rs2498170	NP_700359	D	E	DE	benign
rs2498170	NP_009061	D	E	DE	benign
rs2498323	NP_001519	R	Q	RQ	benign
rs2498478	XP_373372	R	H	RH	benign
rs2498982	NP_005790	V	L	VL	benign
rs2498982	NP_795352	V	L	VL	benign
rs2498982	NP_795353	V	L	VL	benign
rs2499481	NP_733842	W	S	WS	benign
rs2499481	NP_619639	W	S	WS	probably damaging
rs2499836	NP_056256	W	R	WR	possibly damaging
rs2500016	XP_061611	T	A	TA	possibly damaging
rs2500017	XP_061611	V	I	VI	benign
rs2500018	XP_061611	Q	L	QL	benign
rs2500052	XP_061610	R	C	RC	benign
rs2501176	XP_027658	Q	R	QR	benign
rs2501432	NP_001832	Q	R	QR	benign
rs2501968	NP_060602	D	G	DG	benign
rs2502601	NP_003889	E	G	EG	possibly damaging
rs2503480	XP_372092	R	H	RH	benign
rs2503480	XP_497031	R	H	RH	possibly damaging
rs2504011	NP_078964	M	T	MT	benign
rs2504376	XP_371848	W	S	WS	possibly damaging
rs2504779	NP_997280	M	V	MV	benign
rs2505327	XP_370541	M	T	MT	benign
rs2507164	NP_000709	E	K	EK	benign
rs2508018	XP_371809	A	T	AT	benign
rs2508168	NP_955377	R	L	RL	possibly damaging
rs2508437	NP_116190	Q	P	QP	possibly damaging
rs2508489	NP_848602	H	R	HR	possibly damaging
rs2508490	NP_848602	R	H	RH	possibly damaging
rs2509010	NP_071405	D	N	DN	benign
rs2509062	NP_775852	M	V	MV	benign
rs2509649	NP_001214	G	E	GE	benign
rs2509649	NP_150634	G	E	GE	benign
rs2510433	XP_208543	F	V	FV	possibly damaging
rs2511241	NP_002555	P	L	PL	possibly damaging
rs2511241	NP_788085	P	L	PL	possibly damaging
rs2511241	NP_788086	P	L	PL	possibly damaging
rs2511403	XP_291947	A	T	AT	benign
rs2511950	XP_496769	Q	H	QH	probably damaging
rs2511951	XP_496769	L	S	LS	possibly damaging
rs2512166	XP_166767	T	A	TA	probably damaging
rs2512167	XP_166767	G	E	GE	possibly damaging

rs2512168	XP_166767	C	Y	CY	benign
rs2512219	XP_208541	R	H	RH	benign
rs2512268	XP_370662	I	T	IT	benign
rs2512938	XP_166813	F	S	FS	possibly damaging
rs2512961	XP_372390	H	Y	HY	benign
rs2513718	XP_166914	R	W	RW	possibly damaging
rs2513726	XP_166910	Y	C	YC	probably damaging
rs2515569	NP_078872	G	D	GD	benign
rs2515848	NP_705611	K	R	KR	benign
rs2515926	NP_002462	P	Q	PQ	benign
rs2515960	XP_035572	L	S	LS	benign
rs2516542	NP_659479	N	D	ND	benign
rs2516690	NP_079115	Q	H	QH	benign
rs2516700	XP_496802	C	Y	CY	probably damaging
rs2516707	XP_496802	I	V	IV	benign
rs2516709	XP_496802	H	R	HR	benign
rs2517560	XP_376479	E	K	EK	benign
rs2517630	NP_439893	G	E	GE	benign
rs2517630	NP_006769	G	E	GE	benign
rs2517963	NP_031361	G	R	GR	possibly damaging
rs2517963	NP_031363	G	R	GR	possibly damaging
rs2517963	NP_031364	G	R	GR	possibly damaging
rs2517963	NP_031362	G	R	GR	possibly damaging
rs2518042	NP_995317	K	E	KE	possibly damaging
rs2518043	NP_995317	K	E	KE	possibly damaging
rs2518684	NP_055585	G	A	GA	benign
rs2518691	NP_612405	N	D	ND	benign
rs2519170	NP_005960	V	A	VA	benign
rs2519261	NP_000287	G	V	GV	probably damaging
rs2519337	XP_370968	L	P	LP	benign
rs2519338	XP_370968	T	A	TA	benign
rs2519540	NP_848594	T	A	TA	benign
rs2520619	XP_496486	L	V	LV	benign
rs2521574	NP_004644	R	K	RK	benign
rs2521853	XP_496237	M	T	MT	benign
rs2521854	XP_496237	N	D	ND	benign
rs2521860	XP_496237	Q	R	QR	benign
rs2521869	XP_496237	S	R	SR	benign
rs2521988	NP_981959	E	K	EK	benign
rs2521988	NP_981960	E	K	EK	benign
rs2521988	NP_056177	E	K	EK	benign
rs2521988	NP_981958	E	K	EK	benign
rs2521998	NP_005004	N	S	NS	benign
rs2522018	NP_000209	P	H	PH	probably damaging
rs2522019	NP_000209	A	V	AV	benign
rs2522833	XP_168530	S	A	SA	benign



rs2522943	NP_115797	P	R	PR	probably damaging
rs2522943	NP_003379	R	P	RP	probably damaging
rs2522969	NP_001479	I	M	IM	benign
rs2523072	NP_620166	T	S	TS	benign
rs2523307	XP_371923	N	K	NK	benign
rs2523349	XP_371925	M	T	MT	benign
rs2523349	NP_775808	M	T	MT	benign
rs2523352	XP_371925	Y	F	YF	benign
rs2523352	NP_775808	Y	F	YF	benign
rs2523353	NP_775808	R	C	RC	possibly damaging
rs2523370	XP_372677	R	S	RS	possibly damaging
rs2523371	NP_078888	P	A	PA	benign
rs2523376	XP_372677	I	T	IT	benign
rs2523376	NP_078888	T	I	TI	benign
rs2523600	NP_005505	E	K	EK	benign
rs2523602	NP_005505	D	E	DE	benign
rs2523603	NP_005505	E	Q	EQ	benign
rs2523732	NP_150232	P	S	PS	possibly damaging
rs2523956	NP_002107	A	S	AS	benign
rs2523989	NP_008959	V	I	VI	benign
rs2523989	NP_438111	V	I	VI	benign
rs2524235	NP_001945	L	V	LV	benign
rs2524383	NP_038475	L	F	LF	benign
rs2524383	NP_690880	L	F	LF	benign
rs2524383	NP_690881	L	F	LF	benign
rs2524383	NP_690882	L	F	LF	benign
rs2524383	NP_690883	L	F	LF	benign
rs2524383	NP_690884	L	F	LF	benign
rs2524383	NP_690885	L	F	LF	benign
rs2524441	NP_116751	M	I	MI	benign
rs2524441	NP_116750	M	I	MI	benign
rs2524441	NP_116749	M	I	MI	possibly damaging
rs2524441	NP_055337	M	I	MI	possibly damaging
rs2525025	NP_005128	S	F	SF	benign
rs2525702	XP_069612	G	S	GS	benign
rs2525862	XP_093087	R	Q	RQ	benign
rs2525982	NP_004658	R	P	RP	possibly damaging
rs2525988	NP_004658	Q	P	QP	possibly damaging
rs2526247	NP_054750	L	V	LV	benign
rs2526374	NP_060233	M	L	ML	benign
rs2527357	NP_775808	E	K	EK	benign
rs2528303	NP_775836	L	V	LV	benign
rs2528348	NP_932765	L	V	LV	benign
rs2528353	NP_775836	M	T	MT	benign
rs2529320	NP_775808	L	S	LS	benign
rs2529320	XP_371925	S	L	SL	benign

rs2529321	NP_775808	M	T	MT	benign
rs2529321	XP_371925	T	M	TM	benign
rs2529541	NP_002355	K	E	KE	benign
rs2529567	NP_803134	A	G	AG	benign
rs2529568	NP_803134	G	S	GS	benign
rs2529980	XP_170842	R	H	RH	benign
rs2529980	NP_848666	R	H	RH	benign
rs2530066	NP_065703	N	S	NS	benign
rs2530068	NP_065703	S	R	SR	benign
rs2530069	NP_065703	K	E	KE	benign
rs2530070	NP_065703	N	K	NK	benign
rs2530071	NP_065703	M	V	MV	benign
rs2530208	NP_115778	R	P	RP	benign
rs2530208	NP_002579	R	P	RP	possibly damaging
rs2530245	NP_060176	R	C	RC	probably damaging
rs2530301	XP_373214	T	A	TA	benign
rs2530487	XP_496900	A	T	AT	benign
rs2530522	XP_290401	A	T	AT	benign
rs2530522	NP_742017	A	T	AT	benign
rs2530524	XP_496895	G	S	GS	benign
rs2530524	NP_742017	S	G	SG	possibly damaging
rs2530609	NP_065943	G	D	GD	possibly damaging
rs2530814	NP_997206	W	R	WR	possibly damaging
rs2531902	XP_372677	S	N	SN	benign
rs2531913	NP_078888	I	T	IT	benign
rs2531913	XP_372677	T	I	TI	possibly damaging
rs2532500	NP_060479	A	T	AT	benign
rs2532501	NP_060479	V	M	VM	benign
rs2532502	NP_001233	R	H	RH	benign
rs2533485	XP_290401	P	L	PL	probably damaging
rs2535241	XP_294093	D	V	DV	possibly damaging
rs2535242	XP_294093	A	G	AG	benign
rs2535621	NP_002209	L	P	LP	benign
rs2535649	NP_127503	S	N	SN	benign
rs2536512	NP_003093	T	A	TA	benign
rs2536755	XP_495908	P	L	PL	benign
rs2536756	XP_495908	G	R	GR	benign
rs2536815	XP_495917	T	P	TP	benign
rs2536839	XP_495917	F	Y	FY	benign
rs2536855	XP_495909	Q	K	QK	benign
rs2536864	XP_495909	L	W	LW	benign
rs2536865	XP_495909	H	N	HN	benign
rs2536886	XP_495909	E	K	EK	benign
rs2536886	XP_495917	K	E	KE	benign
rs2536903	XP_495909	E	D	ED	benign
rs2536912	XP_495917	W	R	WR	benign

rs2537817	NP_076407	M	V	MV	benign
rs2539908	NP_477352	V	L	VL	benign
rs2542134	XP_036729	Y	C	YC	benign
rs2542135	XP_036729	W	R	WR	benign
rs2542780	NP_060046	E	K	EK	benign
rs2543167	XP_495917	I	V	IV	benign
rs2543167	XP_495909	V	I	VI	benign
rs2543171	XP_495909	R	H	RH	benign
rs2543325	XP_495917	N	T	NT	benign
rs2543427	NP_775774	T	I	TI	benign
rs2544600	NP_055548	T	I	TI	benign
rs2544773	NP_060813	S	C	SC	possibly damaging
rs2544809	NP_543157	I	V	IV	benign
rs2544809	NP_004386	I	V	IV	benign
rs2545754	NP_085079	A	G	AG	benign
rs2545754	NP_000755	A	G	AG	benign
rs2545783	NP_000753	A	P	AP	benign
rs2546423	NP_996763	H	R	HR	benign
rs2547556	NP_115778	S	G	SG	benign
rs2547556	NP_002579	S	G	SG	possibly damaging
rs2549086	XP_208908	H	Y	HY	benign
rs2549087	XP_208908	Q	H	QH	possibly damaging
rs2549089	NP_872425	T	I	TI	benign
rs2549097	NP_872425	A	V	AV	benign
rs2549233	XP_373693	A	E	AE	benign
rs2549261	XP_208908	H	R	HR	possibly damaging
rs2549273	XP_208908	R	Q	RQ	benign
rs2549280	XP_208908	Q	L	QL	benign
rs2549281	XP_208908	V	I	VI	benign
rs2549468	XP_496159	A	V	AV	benign
rs2549472	XP_370968	P	L	PL	benign
rs2549472	XP_496159	L	P	LP	probably damaging
rs2549473	XP_370968	R	W	RW	benign
rs2549473	XP_496159	W	R	WR	possibly damaging
rs2549474	XP_370968	D	G	DG	benign
rs2549474	XP_496159	G	D	GD	possibly damaging
rs2549476	XP_496159	S	R	SR	benign
rs2549486	XP_496159	K	E	KE	benign
rs2549532	NP_060460	Y	H	YH	possibly damaging
rs2549566	XP_208908	E	K	EK	benign
rs2549566	NP_060460	K	E	KE	benign
rs2549598	XP_378608	Q	R	QR	benign
rs2549675	NP_000287	V	L	VL	benign
rs2549676	NP_000287	G	A	GA	benign
rs2549677	NP_000287	M	T	MT	possibly damaging
rs2549782	NP_071745	K	N	KN	benign

rs2549949	XP_496139	T	M	TM	probably damaging
rs2549955	XP_496139	R	Q	RQ	benign
rs2550056	NP_115564	L	R	LR	possibly damaging
rs2550232	NP_689886	I	T	IT	benign
rs2550240	NP_004523	K	N	KN	benign
rs2550240	NP_612154	K	N	KN	benign
rs2550401	XP_370931	N	S	NS	benign
rs2550908	NP_067628	A	T	AT	benign
rs2550908	NP_036258	T	A	TA	benign
rs2550908	NP_078809	T	A	TA	benign
rs2551429	NP_065104	S	F	SF	benign
rs2551949	NP_660323	I	T	IT	possibly damaging
rs2553131	XP_495908	Q	K	QK	benign
rs2553132	XP_495908	G	R	GR	benign
rs2553933	NP_001922	K	Q	KQ	benign
rs2554801	NP_851421	A	V	AV	benign
rs2554801	NP_851422	A	V	AV	benign
rs2554801	NP_055818	A	V	AV	benign
rs2554801	XP_496064	A	V	AV	benign
rs2554802	NP_851421	A	V	AV	benign
rs2554802	NP_851422	A	V	AV	benign
rs2554802	NP_055818	A	V	AV	benign
rs2554802	XP_496064	A	V	AV	benign
rs2554934	NP_003132	E	K	EK	benign
rs2555152	NP_775860	D	N	DN	benign
rs2555158	NP_775860	E	V	EV	benign
rs2556256	XP_496581	R	S	RS	benign
rs2556257	XP_496581	T	P	TP	benign
rs2556281	XP_496581	K	N	KN	benign
rs2556287	XP_496581	G	D	GD	possibly damaging
rs2556288	XP_496581	V	I	VI	benign
rs2556481	NP_004671	I	M	IM	benign
rs2556481	NP_733841	I	M	IM	benign
rs2556894	NP_116755	P	R	PR	benign
rs2556895	NP_116755	V	A	VA	benign
rs2556896	NP_116755	G	A	GA	benign
rs2556897	NP_116755	S	P	SP	possibly damaging
rs2556898	NP_116755	N	D	ND	benign
rs2556901	NP_116755	T	A	TA	benign
rs2557901	XP_496581	C	Y	CY	probably damaging
rs2560049	NP_061161	R	T	RT	benign
rs2560201	NP_940969	S	P	SP	benign
rs2560203	NP_940969	Q	R	QR	benign
rs2560306	NP_997200	R	H	RH	benign
rs2561111	NP_689616	R	H	RH	benign
rs2561818	NP_689616	V	M	VM	benign

rs2561818	NP_877951	V	M	VM	benign
rs2561818	NP_877950	V	M	VM	benign
rs2562741	NP_060866	I	V	IV	benign
rs2564611	NP_000737	A	D	AD	possibly damaging
rs2565312	XP_497188	W	R	WR	probably damaging
rs2567241	NP_004353	A	S	AS	benign
rs2567608	NP_001043	S	F	SF	possibly damaging
rs2568076	NP_065694	P	L	PL	probably damaging
rs2569490	NP_071329	R	H	RH	benign
rs2569491	NP_071329	H	Y	HY	benign
rs2569527	NP_004908	Q	H	QH	possibly damaging
rs2569548	NP_000518	P	S	PS	probably damaging
rs2569706	NP_003250	G	R	GR	probably damaging
rs2570571	XP_377159	E	Q	EQ	benign
rs2570573	XP_377159	K	N	KN	possibly damaging
rs2570865	XP_290660	D	G	DG	possibly damaging
rs2570866	XP_290660	K	E	KE	benign
rs2571089	NP_689567	S	N	SN	benign
rs2571445	NP_072174	W	R	WR	probably damaging
rs2571660	NP_116755	N	T	NT	benign
rs2571660	NP_116754	N	T	NT	benign
rs2571660	NP_116753	N	T	NT	benign
rs2571795	NP_116755	T	A	TA	benign
rs2571795	NP_116754	T	A	TA	benign
rs2571795	NP_116753	T	A	TA	benign
rs2571796	NP_116755	N	D	ND	benign
rs2571796	NP_116754	N	D	ND	benign
rs2571796	NP_116753	N	D	ND	benign
rs2572073	NP_775901	E	K	EK	benign
rs2572423	XP_498272	G	S	GS	possibly damaging
rs2573652	NP_620688	S	N	SN	benign
rs2575314	NP_000287	V	M	VM	benign
rs2575315	NP_000287	A	G	AG	benign
rs2575317	NP_000287	P	L	PL	probably damaging
rs2576522	XP_496197	Q	R	QR	benign
rs2577154	NP_060530	A	V	AV	benign
rs2577301	NP_002017	P	T	PT	possibly damaging
rs2577301	NP_997640	P	T	PT	possibly damaging
rs2577301	NP_997643	P	T	PT	possibly damaging
rs2577301	NP_997647	P	T	PT	possibly damaging
rs2577301	NP_997639	P	T	PT	probably damaging
rs2577301	NP_997641	P	T	PT	probably damaging
rs2578377	NP_061161	S	G	SG	benign
rs2578500	XP_029101	V	I	VI	benign
rs2578652	NP_937784	D	E	DE	benign
rs2578662	NP_055055	G	D	GD	possibly damaging

rs2579529	XP_376101	Y	H	YH	benign
rs2580977	XP_496581	H	R	HR	benign
rs2580980	XP_496581	D	G	DG	possibly damaging
rs2581423	NP_006336	A	T	AT	benign
rs2581440	XP_209607	R	K	RK	benign
rs2582513	XP_290629	P	L	PL	probably damaging
rs2582554	XP_208766	A	T	AT	benign
rs2583641	NP_002129	L	P	LP	probably damaging
rs2583641	NP_112737	L	P	LP	probably damaging
rs2583641	NP_112738	L	P	LP	probably damaging
rs2584625	NP_060117	E	Q	EQ	benign
rs2584879	NP_001024	R	Q	RQ	probably damaging
rs2584918	XP_495878	T	A	TA	benign
rs2585033	NP_003604	L	W	LW	probably damaging
rs2585405	NP_002607	P	A	PA	possibly damaging
rs2585635	NP_002459	L	V	LV	benign
rs2586012	XP_068229	M	V	MV	benign
rs2586514	NP_060512	R	C	RC	probably damaging
rs2587070	NP_056182	I	T	IT	benign
rs2587554	NP_848605	L	M	LM	benign
rs2588458	NP_005100	K	Q	KQ	benign
rs2589991	XP_096885	A	P	AP	possibly damaging
rs2589992	XP_096885	H	P	HP	benign
rs2590120	XP_378185	A	T	AT	benign
rs2591714	NP_777574	A	T	AT	benign
rs2592662	NP_038198	K	R	KR	benign
rs2592834	NP_008924	H	D	HD	probably damaging
rs2592835	NP_008924	E	K	EK	probably damaging
rs2593778	NP_002139	Q	E	QE	benign
rs2593943	NP_055244	Y	H	YH	possibly damaging
rs2595390	NP_002201	I	V	IV	benign
rs2595453	NP_997069	P	L	PL	possibly damaging
rs2595985	XP_377159	T	I	TI	probably damaging
rs2596139	NP_002141	A	P	AP	benign
rs2596492	NP_005505	Y	H	YH	benign
rs2596781	NP_002471	T	P	TP	possibly damaging
rs2597017	XP_495809	C	R	CR	benign
rs2597017	XP_290482	R	C	RC	benign
rs2597040	XP_495809	L	V	LV	benign
rs2597041	XP_495809	F	C	FC	benign
rs2597042	XP_495809	P	H	PH	benign
rs2597044	XP_495809	V	A	VA	benign
rs2597060	NP_714544	T	A	TA	benign
rs2597067	NP_714544	R	Q	RQ	benign
rs2597078	NP_742095	P	L	PL	probably damaging
rs2597078	NP_742094	P	L	PL	probably damaging

rs2597078	NP_742093	P	L	PL	probably damaging
rs2597078	NP_473361	P	L	PL	probably damaging
rs2598002	NP_795368	F	V	FV	benign
rs2598303	XP_496861	G	D	GD	possibly damaging
rs2598806	XP_497879	K	E	KE	benign
rs2598807	XP_497879	A	V	AV	benign
rs2599792	XP_496593	T	M	TM	benign
rs2599793	XP_496593	H	R	HR	benign
rs2599794	XP_496593	E	D	ED	benign
rs2599795	XP_496593	V	M	VM	benign
rs2599954	NP_997193	Q	R	QR	benign
rs2599956	NP_997193	A	G	AG	benign
rs2599956	NP_620125	G	A	GA	benign
rs2599962	NP_620125	S	P	SP	benign
rs2599971	NP_620125	M	T	MT	benign
rs2599971	NP_997193	T	M	TM	benign
rs2599975	XP_209429	K	N	KN	benign
rs2599975	XP_497871	N	K	NK	benign
rs2599976	XP_209429	G	R	GR	benign
rs2599976	XP_497871	R	G	RG	possibly damaging
rs2599980	NP_060421	T	I	TI	possibly damaging
rs2599980	NP_060221	T	I	TI	possibly damaging
rs2599982	NP_060421	Q	E	QE	benign
rs2599982	NP_060221	Q	E	QE	benign
rs2600701	XP_496611	S	T	ST	benign
rs2601517	XP_496026	T	R	TR	benign
rs2601530	XP_375150	H	L	HL	benign
rs2602141	NP_005648	K	Q	KQ	benign
rs2603039	XP_290758	H	P	HP	probably damaging
rs2603040	XP_290758	E	K	EK	benign
rs2604814	XP_497442	G	S	GS	benign
rs2604953	NP_002269	T	P	TP	benign
rs2604955	NP_002269	S	N	SN	benign
rs2604956	NP_002269	D	E	DE	benign
rs2605139	NP_002009	W	G	WG	probably damaging
rs2605683	XP_372094	K	E	KE	benign
rs2605684	XP_372094	H	R	HR	benign
rs2605913	NP_997238	M	V	MV	benign
rs2606921	NP_001162	A	V	AV	benign
rs2607015	NP_006286	P	R	PR	benign
rs2608009	NP_005547	A	G	AG	possibly damaging
rs2608498	XP_496320	H	Y	HY	possibly damaging
rs2608737	XP_211460	N	I	NI	possibly damaging
rs2608738	XP_211460	H	R	HR	benign
rs2609383	NP_116279	E	K	EK	benign
rs2609428	NP_114095	F	L	FL	benign

rs2609881	NP_037512	E	A	EA	benign
rs2610340	NP_115727	P	S	PS	probably damaging
rs2611575	XP_370845	D	A	DA	benign
rs2611575	XP_370849	A	D	AD	possibly damaging
rs2612086	NP_059982	M	T	MT	benign
rs2612086	NP_974487	M	T	MT	benign
rs2612862	NP_073153	S	P	SP	benign
rs2612906	NP_073153	A	P	AP	benign
rs2614668	NP_009131	A	T	AT	benign
rs2614668	NP_658913	A	T	AT	benign
rs2614668	NP_006729	A	T	AT	benign
rs2614797	NP_742094	S	L	SL	benign
rs2614797	NP_742093	S	L	SL	possibly damaging
rs2614797	NP_473361	S	L	SL	possibly damaging
rs2614835	NP_742095	E	G	EG	benign
rs2614835	NP_742093	E	G	EG	benign
rs2614835	NP_473361	E	G	EG	benign
rs2614835	NP_742094	E	G	EG	possibly damaging
rs2615354	XP_372563	G	S	GS	possibly damaging
rs2615354	XP_372565	G	S	GS	possibly damaging
rs2615360	XP_496064	L	V	LV	benign
rs2615360	NP_851421	V	L	VL	benign
rs2615360	NP_851422	V	L	VL	benign
rs2615360	NP_055818	V	L	VL	benign
rs2615612	NP_741996	F	S	FS	benign
rs2617170	NP_038459	N	S	NS	benign
rs2617604	NP_001035	L	F	LF	benign
rs2617667	XP_064903	A	T	AT	benign
rs2617726	XP_371192	E	Q	EQ	possibly damaging
rs2619599	XP_371261	G	A	GA	benign
rs2619844	XP_029101	C	S	CS	probably damaging
rs2620671	NP_665697	G	R	GR	possibly damaging
rs2620672	NP_665697	A	V	AV	benign
rs2620836	NP_055830	E	K	EK	benign
rs2621330	NP_002111	V	I	VI	benign
rs2624827	NP_005769	G	A	GA	benign
rs2625962	NP_055918	R	H	RH	benign
rs2625973	NP_055918	L	V	LV	benign
rs2626577	NP_003144	E	Q	EQ	benign
rs2627107	NP_997206	S	L	SL	benign
rs2627223	NP_006631	V	M	VM	benign
rs2627860	XP_496236	A	S	AS	benign
rs2627860	NP_115971	S	A	SA	benign
rs2628035	XP_350881	I	V	IV	benign
rs2628195	XP_496985	I	V	IV	benign
rs2629339	XP_496496	P	S	PS	benign



rs2629568	NP_116295	A	P	AP	benign
rs2631567	NP_002580	R	S	RS	benign
rs2631567	NP_115832	R	S	RS	benign
rs2631567	NP_115833	R	S	RS	benign
rs2632398	NP_064544	R	C	RC	possibly damaging
rs2633965	NP_149976	Q	L	QL	possibly damaging
rs2634336	XP_496692	C	R	CR	probably damaging
rs2634337	XP_496692	L	F	LF	benign
rs2634349	XP_496692	E	K	EK	benign
rs2634351	XP_496692	I	V	IV	benign
rs2634571	XP_497053	A	V	AV	benign
rs2634571	XP_497052	V	A	VA	benign
rs2634572	XP_497052	A	T	AT	benign
rs2634973	XP_037817	V	I	VI	benign
rs2635164	NP_277047	T	S	TS	benign
rs2635535	XP_497391	T	I	TI	possibly damaging
rs2635718	NP_061720	D	H	DH	benign
rs2635989	XP_498448	S	C	SC	benign
rs2635991	XP_498448	W	R	WR	possibly damaging
rs2636318	NP_036234	P	R	PR	probably damaging
rs2636342	NP_071403	L	P	LP	benign
rs2636839	XP_372579	T	N	TN	benign
rs2636889	NP_000599	V	A	VA	benign
rs2636890	NP_000599	M	V	MV	benign
rs2636890	NP_000598	V	M	VM	benign
rs2638290	NP_003911	E	Q	EQ	benign
rs2638497	NP_787028	L	S	LS	benign
rs2639001	XP_495917	K	E	KE	benign
rs2639029	XP_495917	F	S	FS	benign
rs2639029	XP_495909	S	F	SF	benign
rs2639033	XP_495909	Q	H	QH	possibly damaging
rs2639039	XP_495909	I	L	IL	benign
rs2639039	XP_495917	L	I	LI	benign
rs2639087	XP_495917	N	S	NS	benign
rs2639087	XP_495909	S	N	SN	benign
rs2639092	XP_495917	Q	R	QR	benign
rs2639142	NP_001449	S	N	SN	benign
rs2639879	XP_372191	Q	R	QR	benign
rs2640033	NP_000283	H	P	HP	probably damaging
rs2640038	NP_000087	V	G	VG	possibly damaging
rs2640384	XP_496034	L	P	LP	benign
rs2640601	NP_005972	F	V	FV	possibly damaging
rs2640738	NP_055880	G	R	GR	possibly damaging
rs2640779	NP_055880	R	G	RG	benign
rs2640785	NP_055880	E	V	EV	possibly damaging
rs2640909	NP_058515	M	T	MT	benign

rs2641348	NP_068566	L	P	LP	benign
rs2641563	XP_370567	I	V	IV	benign
rs2641962	NP_443128	M	V	MV	benign
rs2642419	NP_073583	M	I	MI	possibly damaging
rs2642438	NP_073583	A	T	AT	benign
rs2642990	NP_056261	N	S	NS	benign
rs2643103	NP_060149	S	N	SN	benign
rs2643766	NP_001449	G	D	GD	probably damaging
rs2643767	NP_001449	A	T	AT	benign
rs2643806	NP_060795	L	F	LF	benign
rs2644225	NP_851421	Q	R	QR	benign
rs2644225	NP_851422	Q	R	QR	benign
rs2644225	NP_055818	Q	R	QR	benign
rs2644225	XP_496064	Q	R	QR	benign
rs2644242	XP_372565	G	R	GR	probably damaging
rs2644242	XP_372563	R	G	RG	probably damaging
rs2644337	NP_006301	Y	C	YC	probably damaging
rs2644906	NP_000753	V	M	VM	benign
rs2645329	NP_000834	P	Q	PQ	benign
rs2647573	XP_372355	F	S	FS	benign
rs2649398	NP_065703	R	Q	RQ	benign
rs2649399	NP_065703	K	R	KR	benign
rs2649505	XP_170842	D	Y	DY	probably damaging
rs2649505	NP_848666	Y	D	YD	probably damaging
rs2649506	XP_170842	E	G	EG	possibly damaging
rs2649506	NP_848666	G	E	GE	possibly damaging
rs2650093	NP_005100	A	P	AP	possibly damaging
rs2650190	XP_495902	N	K	NK	benign
rs2650537	XP_373693	R	W	RW	probably damaging
rs2650549	NP_872425	A	T	AT	benign
rs2650549	NP_775890	A	T	AT	benign
rs2652098	NP_004376	S	L	SL	benign
rs2653218	XP_370845	C	F	CF	probably damaging
rs2653218	XP_370849	F	C	FC	probably damaging
rs2653349	NP_001517	V	I	VI	benign
rs2653406	NP_004458	P	L	PL	benign
rs2653406	NP_671736	P	L	PL	benign
rs2653406	NP_963846	P	L	PL	benign
rs2653406	NP_963847	P	L	PL	benign
rs2653414	NP_004458	W	L	WL	probably damaging
rs2653414	NP_671736	W	L	WL	probably damaging
rs2653414	NP_963846	W	L	WL	probably damaging
rs2653414	NP_963847	W	L	WL	probably damaging
rs2653588	NP_065694	P	L	PL	probably damaging
rs2654297	NP_065703	A	V	AV	benign
rs2654560	NP_443121	E	G	EG	benign

rs2655655	NP_859065	S	L	SL	possibly damaging
rs2657167	XP_061674	S	R	SR	benign
rs2657879	NP_037399	L	P	LP	benign
rs2657881	NP_997227	T	M	TM	possibly damaging
rs2658658	NP_149022	T	M	TM	possibly damaging
rs2658973	NP_006150	V	I	VI	benign
rs2659015	XP_045581	T	A	TA	benign
rs2659016	XP_045581	V	A	VA	benign
rs2659141	XP_370893	M	I	MI	benign
rs2659153	XP_370893	S	F	SF	probably damaging
rs2659368	XP_290342	N	D	ND	benign
rs2659375	XP_290342	E	G	EG	possibly damaging
rs2659395	XP_290342	H	R	HR	possibly damaging
rs2659585	NP_079216	R	K	RK	benign
rs2659745	XP_370968	P	L	PL	benign
rs2659776	XP_370968	R	G	RG	benign
rs2659860	NP_056139	P	S	PS	benign
rs2659874	NP_003728	R	T	RT	benign
rs2659875	NP_003728	R	C	RC	benign
rs2659879	XP_090203	R	G	RG	benign
rs2659880	XP_090203	V	L	VL	benign
rs2661487	NP_619639	R	H	RH	benign
rs2661488	NP_619639	I	N	IN	benign
rs2662263	NP_775941	R	S	RS	benign
rs2662469	XP_376420	N	D	ND	benign
rs2663571	XP_497773	Y	C	YC	possibly damaging
rs2663572	XP_497773	D	G	DG	benign
rs2663573	XP_497773	H	Q	HQ	benign
rs2663698	NP_005397	C	R	CR	probably damaging
rs2664060	NP_788954	A	P	AP	benign
rs2664521	NP_065871	E	K	EK	benign
rs2664531	NP_002457	P	R	PR	probably damaging
rs2664535	NP_001307	S	P	SP	possibly damaging
rs2664535	NP_803185	S	P	SP	possibly damaging
rs2664538	NP_004985	R	Q	RQ	benign
rs2664553	NP_647539	V	E	VE	probably damaging
rs2664553	NP_003395	V	E	VE	probably damaging
rs2664556	NP_001307	K	Q	KQ	benign
rs2664556	NP_803185	K	Q	KQ	benign
rs2664569	NP_065871	H	Q	HQ	probably damaging
rs2664578	NP_066363	L	V	LV	benign
rs2664581	NP_002629	T	P	TP	benign
rs2664731	XP_497711	A	V	AV	benign
rs2664732	XP_497711	M	T	MT	benign
rs2664891	NP_064544	L	F	LF	benign
rs2665055	XP_208847	F	L	FL	benign

rs2665055	XP_497431	L	F	LF	benign
rs2666232	XP_497217	D	E	DE	possibly damaging
rs2666472	NP_859063	A	V	AV	benign
rs2666626	NP_002529	K	N	KN	benign
rs2667661	NP_057195	E	G	EG	benign
rs2667672	XP_372607	L	M	LM	benign
rs2667673	XP_372607	R	G	RG	probably damaging
rs2667674	XP_372607	L	P	LP	possibly damaging
rs2668672	XP_496227	C	W	CW	probably damaging
rs2668960	NP_115971	V	A	VA	benign
rs2668979	XP_496236	L	P	LP	probably damaging
rs2668979	NP_115971	P	L	PL	probably damaging
rs2668982	XP_496236	S	A	SA	benign
rs2668998	NP_115971	V	L	VL	benign
rs2669142	XP_374765	V	A	VA	benign
rs2669761	XP_350781	P	T	PT	benign
rs2669761	XP_290482	T	P	TP	probably damaging
rs2669875	NP_000415	T	S	TS	benign
rs2671983	XP_376622	Y	C	YC	benign
rs2671984	XP_376622	F	L	FL	benign
rs2672150	XP_371558	T	P	TP	benign
rs2672150	XP_292982	T	P	TP	probably damaging
rs2672199	XP_496593	L	V	LV	benign
rs2672511	XP_372424	V	I	VI	benign
rs2674153	XP_496559	R	L	RL	benign
rs2674191	XP_496581	I	T	IT	benign
rs2675703	NP_150598	P	L	PL	probably damaging
rs2676126	NP_689728	P	A	PA	possibly damaging
rs2676564	NP_003543	S	R	SR	possibly damaging
rs2676567	NP_003543	L	P	LP	benign
rs2676568	NP_003543	N	S	NS	possibly damaging
rs2676701	NP_057341	S	N	SN	benign
rs2677622	XP_497879	C	Y	CY	probably damaging
rs2677879	NP_073751	Q	K	QK	benign
rs2678985	XP_496159	G	C	GC	probably damaging
rs2679117	NP_003604	R	Q	RQ	benign
rs2679118	NP_003604	E	K	EK	benign
rs2680701	NP_060233	P	L	PL	probably damaging
rs2680704	NP_004749	A	P	AP	benign
rs2680925	NP_064569	G	A	GA	possibly damaging
rs2681095	NP_000087	R	K	RK	benign
rs2681417	NP_787058	I	V	IV	benign
rs2682123	NP_659477	R	P	RP	probably damaging
rs2682145	XP_496769	R	T	RT	possibly damaging
rs2682173	XP_496769	Q	K	QK	benign
rs2682174	XP_496769	S	A	SA	benign

rs2682175	XP_376474	E	G	EG	probably damaging
rs2682175	XP_496769	G	E	GE	probably damaging
rs2682177	XP_496769	R	G	RG	probably damaging
rs2682343	NP_775487	G	A	GA	benign
rs2682484	NP_006602	Y	F	YF	possibly damaging
rs2682494	NP_031359	P	H	PH	benign
rs2682495	NP_031359	S	C	SC	possibly damaging
rs2682557	NP_006288	Y	N	YN	benign
rs2684062	XP_372028	D	N	DN	benign
rs2684062	XP_372030	N	D	ND	benign
rs2684067	XP_498273	V	L	VL	benign
rs2684348	XP_376353	M	V	MV	benign
rs2684498	XP_496237	P	S	PS	benign
rs2684498	NP_055613	S	P	SP	benign
rs2684499	NP_055613	P	L	PL	benign
rs2684500	NP_055613	F	S	FS	benign
rs2684501	NP_055613	P	S	PS	benign
rs2684502	NP_055613	R	Q	RQ	benign
rs2684521	XP_496237	Q	R	QR	benign
rs2684710	XP_496237	Q	R	QR	benign
rs2684710	NP_055613	R	Q	RQ	benign
rs2684711	NP_055613	C	Y	CY	benign
rs2684711	XP_496237	Y	C	YC	benign
rs2684712	NP_055613	L	P	LP	benign
rs2684713	NP_055613	T	M	TM	benign
rs2684875	NP_057455	K	E	KE	benign
rs2685000	XP_379210	S	I	SI	benign
rs2686810	NP_002310	S	N	SN	benign
rs2687015	NP_060734	R	W	RW	benign
rs2687333	XP_496692	L	P	LP	possibly damaging
rs2687883	NP_775743	L	M	LM	benign
rs2688561	XP_171032	R	G	RG	probably damaging
rs2688562	XP_171032	R	G	RG	probably damaging
rs2688571	XP_171032	G	W	GW	possibly damaging
rs2688572	XP_171032	T	N	TN	benign
rs2688753	NP_689923	R	I	RI	benign
rs2690207	NP_060734	G	R	GR	benign
rs2690413	XP_376622	N	T	NT	benign
rs2690414	XP_376622	L	F	LF	benign
rs2690506	XP_376622	R	G	RG	benign
rs2690519	XP_376622	A	S	AS	benign
rs2690589	NP_065943	V	I	VI	benign
rs2690597	XP_496902	G	V	GV	benign
rs2691379	XP_496870	A	G	AG	benign
rs2691484	NP_660310	W	L	WL	probably damaging
rs2691511	XP_498113	K	E	KE	benign

rs2692622	NP_056984	S	N	SN	benign
rs2692696	NP_001054	V	I	VI	benign
rs2692901	XP_376099	R	H	RH	possibly damaging
rs2693113	XP_496581	V	E	VE	possibly damaging
rs2695167	XP_031689	Y	C	YC	probably damaging
rs2695315	NP_689730	I	V	IV	benign
rs2695316	NP_689730	I	M	IM	benign
rs2695485	XP_293352	E	K	EK	benign
rs2695486	XP_293352	E	D	ED	benign
rs2695550	NP_060421	N	S	NS	possibly damaging
rs2695550	NP_060221	N	S	NS	possibly damaging
rs2696513	XP_496227	Q	R	QR	benign
rs2696733	XP_376099	W	R	WR	possibly damaging
rs2696782	XP_496576	Q	R	QR	benign
rs2696784	XP_496576	C	R	CR	possibly damaging
rs2696786	XP_496576	E	K	EK	benign
rs2696787	XP_496576	E	G	EG	possibly damaging
rs2696914	XP_208043	L	M	LM	benign
rs2697532	NP_066008	S	G	SG	benign
rs2697541	NP_061993	L	V	LV	benign
rs2698907	XP_498273	H	L	HL	probably damaging
rs2698968	XP_373243	L	P	LP	probably damaging
rs2700161	NP_002196	P	S	PS	probably damaging
rs2700500	NP_037452	A	S	AS	benign
rs2702304	NP_036257	L	F	LF	possibly damaging
rs2702355	XP_496694	T	P	TP	benign
rs2703130	XP_293687	P	T	PT	possibly damaging
rs2703643	NP_001198	V	G	VG	possibly damaging
rs2703806	NP_690868	L	M	LM	benign
rs2705143	XP_292136	C	R	CR	probably damaging
rs2705203	NP_859074	R	P	RP	possibly damaging
rs2705339	NP_005126	S	F	SF	benign
rs2706656	NP_055447	F	L	FL	benign
rs2706762	NP_057381	F	S	FS	benign
rs2707466	NP_057171	T	I	TI	benign
rs2707466	NP_476509	T	I	TI	benign
rs2707634	NP_783862	E	K	EK	benign
rs2707639	NP_783862	F	C	FC	possibly damaging
rs2707944	NP_000918	G	A	GA	probably damaging
rs2708380	NP_795368	L	M	LM	benign
rs2708742	XP_371192	G	S	GS	benign
rs2708743	XP_371192	I	S	IS	possibly damaging
rs2708890	XP_059832	P	H	PH	benign
rs2708912	XP_059832	P	L	PL	benign
rs2708943	NP_775294	P	R	PR	probably damaging
rs2708943	NP_775297	P	R	PR	probably damaging

rs2708943	NP_055254	P	R	PR	probably damaging
rs2708947	NP_775294	W	R	WR	benign
rs2708947	NP_775295	W	R	WR	benign
rs2708947	NP_775296	W	R	WR	benign
rs2708947	NP_775297	W	R	WR	benign
rs2708947	NP_055254	W	R	WR	probably damaging
rs2711185	NP_775836	C	F	CF	probably damaging
rs2711191	NP_775836	S	T	ST	benign
rs2712025	NP_689728	R	S	RS	benign
rs2713625	NP_055918	N	S	NS	benign
rs2714473	NP_653337	P	A	PA	benign
rs2714473	NP_061077	P	A	PA	possibly damaging
rs2715423	XP_372592	A	V	AV	benign
rs2715687	NP_005450	I	V	IV	benign
rs2715860	NP_003878	E	D	ED	benign
rs2716146	XP_497680	V	I	VI	benign
rs2716255	XP_497388	R	Q	RQ	benign
rs2717858	NP_620166	Y	C	YC	probably damaging
rs2718131	XP_371956	P	A	PA	benign
rs2718387	XP_498223	G	S	GS	probably damaging
rs2718698	NP_852118	E	Q	EQ	benign
rs2718698	NP_055450	E	Q	EQ	benign
rs2719323	XP_070233	R	Q	RQ	benign
rs2719582	XP_376756	I	T	IT	benign
rs2719710	NP_653275	Q	R	QR	benign
rs2720299	XP_035497	T	I	TI	benign
rs2722084	XP_496026	G	E	GE	possibly damaging
rs2722372	NP_057700	R	K	RK	benign
rs2722532	XP_088768	T	I	TI	benign
rs2722722	NP_037512	Y	H	YH	benign
rs2722723	NP_037512	Q	E	QE	benign
rs2722863	XP_497072	H	Q	HQ	probably damaging
rs2723088	NP_055962	N	K	NK	benign
rs2723089	NP_055962	C	S	CS	probably damaging
rs2723183	NP_775297	N	S	NS	benign
rs2723183	NP_055254	N	S	NS	benign
rs2723187	NP_775294	P	L	PL	benign
rs2723187	NP_775295	P	L	PL	benign
rs2723187	NP_775296	P	L	PL	benign
rs2723187	NP_775297	P	L	PL	benign
rs2723187	NP_055254	P	L	PL	probably damaging
rs2723192	NP_775294	D	N	DN	benign
rs2723192	NP_775295	D	N	DN	benign
rs2723192	NP_775296	D	N	DN	benign
rs2723192	NP_775297	D	N	DN	benign
rs2723192	NP_055254	D	N	DN	benign

rs2723753	XP_372468	W	R	WR	possibly damaging
rs2724693	NP_775814	R	W	RW	probably damaging
rs2725362	NP_000544	F	L	FL	benign
rs2726836	XP_084514	C	Y	CY	probably damaging
rs2727288	NP_060117	C	S	CS	benign
rs2727306	NP_000325	D	N	DN	benign
rs2727307	NP_072101	D	E	DE	benign
rs2727307	NP_072102	D	E	DE	benign
rs2727307	NP_072103	D	E	DE	benign
rs2728181	XP_496715	R	L	RL	benign
rs2728244	XP_496715	Q	R	QR	benign
rs2728533	NP_001354	G	D	GD	probably damaging
rs2728534	NP_001354	I	S	IS	probably damaging
rs2728726	NP_001354	L	I	LI	benign
rs2728932	XP_496629	S	L	SL	benign
rs2729509	NP_714544	F	S	FS	benign
rs2729526	NP_742093	N	H	NH	benign
rs2729526	NP_473361	N	H	NH	benign
rs2729526	NP_742094	N	H	NH	possibly damaging
rs2729709	NP_002340	K	M	KM	possibly damaging
rs2729772	NP_878253	K	R	KR	benign
rs2729835	NP_116246	R	K	RK	benign
rs2731021	NP_037452	Q	H	QH	benign
rs2731038	XP_495922	M	V	MV	benign
rs2731073	XP_292136	M	V	MV	benign
rs2732399	XP_496916	M	I	MI	benign
rs2732400	XP_496916	L	F	LF	benign
rs2732441	NP_861453	R	G	RG	possibly damaging
rs2732481	NP_689533	Q	P	QP	possibly damaging
rs2732614	XP_496227	G	D	GD	benign
rs2733743	NP_000695	A	V	AV	benign
rs2734316	NP_000583	A	V	AV	benign
rs2734316	NP_001002029	A	V	AV	benign
rs2734318	NP_000583	S	C	SC	probably damaging
rs2734318	NP_001002029	S	C	SC	probably damaging
rs2734319	NP_000583	L	P	LP	probably damaging
rs2734319	NP_001002029	L	P	LP	probably damaging
rs2734329	NP_008860	G	R	GR	probably damaging
rs2734705	NP_001276	S	N	SN	benign
rs2734715	NP_000382	S	L	SL	possibly damaging
rs2734742	NP_002696	S	R	SR	benign
rs2734849	NP_848605	H	R	HR	possibly damaging
rs2735420	NP_008924	N	I	NI	probably damaging
rs2735510	XP_113871	L	F	LF	benign
rs2735668	NP_000017	M	I	MI	benign
rs2735868	XP_497991	C	R	CR	benign



rs2736158	NP_004629	A	G	AG	benign
rs2736158	NP_542417	A	G	AG	benign
rs2736182	NP_001614	G	R	GR	probably damaging
rs2736269	NP_473369	C	S	CS	benign
rs2736416	NP_055033	S	R	SR	benign
rs2736531	XP_372354	L	R	LR	benign
rs2736586	XP_372355	V	M	VM	benign
rs2736654	NP_006699	A	E	AE	benign
rs2736720	NP_005677	P	L	PL	probably damaging
rs2736721	NP_005677	Y	C	YC	probably damaging
rs2736722	NP_005677	A	G	AG	benign
rs2736880	NP_001356	E	V	EV	possibly damaging
rs2736975	XP_290758	K	E	KE	benign
rs2736976	NP_008977	R	Q	RQ	benign
rs2737085	NP_000201	Y	D	YD	probably damaging
rs2737502	XP_499097	N	K	NK	benign
rs2737502	XP_499099	N	K	NK	benign
rs2737713	NP_006490	F	Y	FY	benign
rs2737713	NP_963837	F	Y	FY	benign
rs2737713	NP_963838	F	Y	FY	benign
rs2737713	NP_963839	F	Y	FY	benign
rs2737727	NP_002678	D	E	DE	benign
rs2737728	NP_002678	Q	E	QE	benign
rs2737730	NP_002678	H	P	HP	probably damaging
rs2737799	NP_000368	V	A	VA	benign
rs2737820	NP_877495	E	D	ED	benign
rs2737820	NP_068779	E	D	ED	benign
rs2737993	XP_496957	E	D	ED	benign
rs2737995	NP_689463	P	L	PL	probably damaging
rs2738035	NP_057596	D	G	DG	benign
rs2738047	NP_005209	V	I	VI	benign
rs2738295	NP_006602	F	S	FS	probably damaging
rs2738755	NP_068777	P	L	PL	probably damaging
rs2738787	NP_116575	G	R	GR	possibly damaging
rs2738935	XP_497781	K	E	KE	benign
rs2738938	XP_497781	A	V	AV	benign
rs2739199	NP_000316	N	K	NK	benign
rs2739199	NP_700476	N	K	NK	benign
rs2739199	NP_700475	N	K	NK	benign
rs2739207	NP_700476	V	L	VL	benign
rs2739207	NP_700475	V	L	VL	benign
rs2739256	NP_000709	A	D	AD	benign
rs2739502	NP_378666	P	R	PR	benign
rs2739502	NP_378662	P	R	PR	benign
rs2740348	NP_056536	E	Q	EQ	benign
rs2740349	NP_056536	N	D	ND	benign

rs2740374	NP_060187	Q	P	QP	benign
rs2740374	NP_112554	Q	P	QP	benign
rs2740374	NP_068743	Q	P	QP	benign
rs2740375	NP_068743	S	P	SP	possibly damaging
rs2740379	NP_112554	S	C	SC	benign
rs2740379	NP_068743	S	C	SC	possibly damaging
rs2740582	NP_061993	Q	H	QH	benign
rs2740583	NP_061993	F	L	FL	benign
rs2740707	NP_478107	P	Q	PQ	possibly damaging
rs2740707	NP_478108	P	Q	PQ	possibly damaging
rs2740707	NP_478109	P	Q	PQ	possibly damaging
rs2740707	NP_478110	P	Q	PQ	possibly damaging
rs2741058	XP_498268	R	G	RG	possibly damaging
rs2741281	NP_004817	H	Q	HQ	probably damaging
rs2741574	NP_057021	S	R	SR	benign
rs2741575	NP_057021	T	S	TS	benign
rs2741582	NP_057021	E	K	EK	benign
rs2741744	NP_003687	I	T	IT	probably damaging
rs2741745	NP_003687	P	S	PS	probably damaging
rs2741764	XP_291981	A	T	AT	benign
rs2741804	XP_062286	M	T	MT	benign
rs2741976	NP_741996	E	K	EK	benign
rs2742015	NP_005512	A	T	AT	benign
rs2742132	NP_006744	A	T	AT	benign
rs2743304	NP_003824	F	L	FL	possibly damaging
rs2743304	NP_085080	F	L	FL	possibly damaging
rs2743304	NP_085095	F	L	FL	probably damaging
rs2743332	NP_055091	L	V	LV	benign
rs2743337	NP_055091	L	I	LI	benign
rs2743458	NP_000097	Y	C	YC	probably damaging
rs2743966	XP_372763	W	R	WR	possibly damaging
rs2743967	XP_372763	M	L	ML	benign
rs2743969	XP_375688	M	R	MR	probably damaging
rs2744550	XP_376472	S	G	SG	benign
rs2744559	XP_376472	G	S	GS	benign
rs2745097	XP_372607	A	D	AD	benign
rs2745098	XP_372607	R	K	RK	benign
rs2745099	XP_372607	H	N	HN	probably damaging
rs2745101	XP_372607	R	W	RW	possibly damaging
rs2746395	NP_005501	D	V	DV	probably damaging
rs2746396	NP_005501	D	E	DE	benign
rs2746400	NP_008860	V	G	VG	possibly damaging
rs2746404	NP_061978	V	L	VL	benign
rs2746405	NP_061978	V	G	VG	possibly damaging
rs2746409	NP_061978	G	A	GA	benign
rs2746413	NP_000583	R	L	RL	possibly damaging

rs2746413	NP_001002029	R	L	RL	possibly damaging
rs2746414	NP_001002029	S	N	SN	benign
rs2746603	NP_006056	R	H	RH	benign
rs2746687	XP_497678	A	V	AV	benign
rs2746984	NP_009160	M	I	MI	probably damaging
rs2746991	NP_937782	K	N	KN	benign
rs2746991	NP_002998	K	N	KN	possibly damaging
rs2747234	XP_375931	F	L	FL	benign
rs2747361	XP_375931	A	G	AG	benign
rs2747379	XP_375931	R	H	RH	possibly damaging
rs2747553	NP_116208	R	Q	RQ	benign
rs2747700	XP_371832	T	N	TN	benign
rs2747701	XP_371832	D	G	DG	benign
rs2747761	NP_005609	G	R	GR	probably damaging
rs2747834	XP_498321	C	Y	CY	probably damaging
rs2748427	NP_009198	W	R	WR	possibly damaging
rs2748529	NP_000350	Q	H	QH	possibly damaging
rs2749836	XP_499140	L	V	LV	benign
rs2753327	NP_000072	V	I	VI	benign
rs2753386	NP_001276	K	R	KR	benign
rs2753960	NP_006286	P	T	PT	possibly damaging
rs2754158	NP_000248	R	G	RG	benign
rs2754166	NP_000248	D	E	DE	benign
rs2754386	XP_374786	L	P	LP	benign
rs2756017	XP_497217	P	T	PT	probably damaging
rs2756018	XP_497217	G	A	GA	possibly damaging
rs2756081	NP_000895	F	L	FL	probably damaging
rs2756923	NP_055034	A	T	AT	benign
rs2756923	NP_055033	T	A	TA	benign
rs2756932	NP_065396	T	A	TA	possibly damaging
rs2756933	NP_065396	N	D	ND	possibly damaging
rs2756934	NP_065396	G	S	GS	benign
rs2756947	NP_065396	E	G	EG	benign
rs2757594	NP_689764	P	L	PL	probably damaging
rs2757884	NP_110383	K	N	KN	benign
rs2757969	NP_997188	L	P	LP	benign
rs2757970	NP_036316	K	Q	KQ	benign
rs2757971	NP_036316	T	N	TN	possibly damaging
rs2758568	XP_497242	V	A	VA	benign
rs2758568	XP_497240	A	V	AV	possibly damaging
rs2758569	XP_497240	S	F	SF	probably damaging
rs2758714	XP_208213	M	I	MI	benign
rs2758717	XP_208213	K	R	KR	benign
rs2758910	NP_113648	R	Q	RQ	benign
rs2760118	NP_733936	H	Y	HY	benign
rs2760118	NP_001071	H	Y	HY	benign

rs2760320	NP_060288	M	I	MI	benign
rs2760708	XP_375928	C	Y	CY	probably damaging
rs2761326	NP_579899	L	F	LF	benign
rs2761326	NP_038479	L	F	LF	benign
rs2761671	XP_377028	R	C	RC	possibly damaging
rs2762875	XP_378185	R	Q	RQ	benign
rs2762877	XP_378185	S	P	SP	benign
rs2763132	XP_498040	V	M	VM	benign
rs2764043	NP_110447	L	P	LP	possibly damaging
rs2764337	NP_006838	K	Q	KQ	benign
rs2764657	XP_371261	G	V	GV	probably damaging
rs2766597	NP_001823	L	P	LP	possibly damaging
rs2766676	NP_006517	S	P	SP	benign
rs2767101	XP_495840	H	Y	HY	benign
rs2767468	NP_060658	W	R	WR	possibly damaging
rs2767471	NP_060658	A	S	AS	benign
rs2768857	XP_375041	D	Y	DY	probably damaging
rs2770144	NP_612566	V	G	VG	possibly damaging
rs2770144	NP_612567	V	G	VG	possibly damaging
rs2770145	NP_612566	C	W	CW	probably damaging
rs2770145	NP_612567	C	W	CW	probably damaging
rs2770928	NP_055387	S	G	SG	benign
rs2770945	NP_203128	Q	E	QE	benign
rs2770945	NP_976038	Q	E	QE	benign
rs2770946	NP_203128	P	S	PS	possibly damaging
rs2770946	NP_976038	P	S	PS	possibly damaging
rs2771350	NP_073571	A	P	AP	benign
rs2772133	XP_370738	N	Y	NY	possibly damaging
rs2773347	NP_640339	Q	R	QR	benign
rs2774384	XP_034717	G	C	GC	probably damaging
rs2774531	NP_002588	E	D	ED	benign
rs2774532	NP_002588	M	I	MI	possibly damaging
rs2774896	XP_379639	K	R	KR	benign
rs2774896	XP_499140	K	R	KR	benign
rs2774897	XP_379639	T	A	TA	benign
rs2774897	XP_499140	T	A	TA	benign
rs2774960	XP_371956	P	L	PL	benign
rs2774962	XP_371956	R	G	RG	possibly damaging
rs2775253	XP_063310	M	K	MK	possibly damaging
rs2775254	XP_063310	G	S	GS	benign
rs2775451	XP_497773	V	F	VF	benign
rs2775778	XP_375931	H	N	HN	benign
rs2777140	XP_372112	G	E	GE	probably damaging
rs2777382	XP_497053	H	R	HR	benign
rs2777382	XP_497052	R	H	RH	possibly damaging
rs2778031	XP_372125	C	R	CR	probably damaging

rs2778238	XP_497089	R	G	RG	benign
rs2778238	XP_497024	R	G	RG	possibly damaging
rs2778284	XP_372121	H	Q	HQ	benign
rs2778390	NP_060046	R	Q	RQ	benign
rs2778979	NP_116201	I	V	IV	benign
rs2780605	XP_374318	R	W	RW	possibly damaging
rs2781608	XP_371227	A	T	AT	benign
rs2781773	NP_006660	E	A	EA	possibly damaging
rs2781806	NP_115939	T	S	TS	benign
rs2782871	NP_002408	L	P	LP	possibly damaging
rs2782872	NP_002408	A	T	AT	benign
rs2782873	NP_002408	V	I	VI	benign
rs2782874	NP_002408	V	L	VL	benign
rs2783175	NP_612426	D	E	DE	benign
rs2783350	NP_056386	A	G	AG	benign
rs2783909	XP_374318	T	S	TS	benign
rs2784228	NP_619639	S	F	SF	benign
rs2784734	NP_036234	T	A	TA	benign
rs2785332	NP_060961	T	A	TA	benign
rs2787344	NP_110394	Y	C	YC	probably damaging
rs2787772	XP_034717	M	K	MK	benign
rs2789417	NP_254273	L	I	LI	benign
rs2789975	NP_116279	E	D	ED	benign
rs2790301	XP_059095	V	L	VL	benign
rs2790301	XP_209227	V	L	VL	benign
rs2791483	NP_001276	K	N	KN	benign
rs2791494	NP_001276	T	M	TM	benign
rs2792497	XP_375931	V	E	VE	benign
rs2792529	XP_375931	A	T	AT	benign
rs2792531	XP_371111	N	D	ND	benign
rs2792534	XP_371111	L	V	LV	benign
rs2792751	NP_065969	V	I	VI	benign
rs2794763	XP_375853	M	V	MV	possibly damaging
rs2795529	NP_055568	I	F	IF	benign
rs2795530	NP_055568	G	A	GA	possibly damaging
rs2796025	XP_376902	I	V	IV	benign
rs2796835	NP_001072	W	S	WS	probably damaging
rs2797373	NP_071403	D	G	DG	benign
rs2797491	XP_374765	R	P	RP	probably damaging
rs2797501	XP_374765	S	N	SN	benign
rs2797741	XP_375688	H	Y	HY	benign
rs2797848	NP_000778	D	A	DA	probably damaging
rs2798284	XP_035572	C	W	CW	possibly damaging
rs2798669	NP_002408	D	N	DN	benign
rs2798851	XP_378185	R	Q	RQ	benign
rs2798855	XP_378185	K	Q	KQ	benign

rs2798901	XP_378185	W	R	WR	possibly damaging
rs2799068	XP_372195	E	K	EK	benign
rs2799627	NP_005790	M	I	MI	benign
rs2799627	NP_795352	M	I	MI	benign
rs2799627	NP_795353	M	I	MI	benign
rs2800889	NP_000668	M	K	MK	possibly damaging
rs2801164	XP_372500	I	T	IT	possibly damaging
rs2801625	NP_694853	P	R	PR	probably damaging
rs2802269	NP_055641	A	V	AV	benign
rs2802269	NP_003598	A	V	AV	benign
rs2803140	NP_777283	R	Q	RQ	benign
rs2803140	NP_036225	R	Q	RQ	benign
rs2804003	NP_796374	A	V	AV	benign
rs2804653	XP_374786	V	L	VL	benign
rs2805105	XP_495824	T	P	TP	possibly damaging
rs2805146	XP_290482	R	Q	RQ	benign
rs2805146	XP_350781	R	Q	RQ	benign
rs2805245	XP_290482	T	A	TA	benign
rs2805245	XP_350781	T	A	TA	benign
rs2805246	XP_350781	R	T	RT	benign
rs2805246	XP_290482	R	T	RT	possibly damaging
rs2805273	XP_378228	L	V	LV	benign
rs2805274	XP_378228	P	L	PL	probably damaging
rs2806180	XP_498040	V	A	VA	benign
rs2806482	XP_495808	Q	E	QE	benign
rs2807157	XP_498448	C	S	CS	probably damaging
rs2808001	NP_001060	A	V	AV	probably damaging
rs2808001	NP_821080	A	V	AV	probably damaging
rs2808096	NP_060757	F	S	FS	benign
rs2808136	XP_496032	L	F	LF	benign
rs2808415	NP_775960	N	T	NT	benign
rs2808967	XP_372094	C	R	CR	benign
rs2809185	XP_497052	A	V	AV	benign
rs2809185	XP_497053	V	A	VA	benign
rs2810487	NP_031397	E	D	ED	benign
rs2810566	NP_078779	R	H	RH	benign
rs2811741	NP_078994	E	Q	EQ	benign
rs2811795	NP_116263	R	W	RW	possibly damaging
rs2814054	NP_036564	A	P	AP	benign
rs2814436	XP_372468	M	T	MT	possibly damaging
rs2815413	NP_996769	T	N	TN	possibly damaging
rs2815427	NP_031384	S	C	SC	benign
rs2815960	XP_497391	G	D	GD	probably damaging
rs2816642	NP_002217	G	A	GA	possibly damaging
rs2816642	NP_660142	G	A	GA	possibly damaging
rs2817191	XP_376472	V	A	VA	benign

rs2817394	NP_003212	S	A	SA	probably damaging
rs2817580	XP_052561	G	S	GS	benign
rs2817673	NP_003052	P	L	PL	probably damaging
rs2817793	XP_498127	H	R	HR	benign
rs2817794	XP_498127	G	C	GC	probably damaging
rs2819419	XP_290629	Y	D	YD	probably damaging
rs2819420	XP_290629	G	R	GR	possibly damaging
rs2819422	XP_290629	V	A	VA	benign
rs2819423	XP_290629	K	N	KN	benign
rs2819425	XP_290629	S	P	SP	benign
rs2819590	NP_877437	S	N	SN	benign
rs2820289	NP_065176	S	L	SL	benign
rs2820312	NP_036266	T	M	TM	benign
rs2820477	XP_015717	E	D	ED	benign
rs2821008	XP_031401	L	P	LP	benign
rs2821831	XP_375931	K	I	KI	possibly damaging
rs2821856	XP_375931	T	M	TM	benign
rs2822023	XP_497774	T	I	TI	benign
rs2822028	XP_497774	V	F	VF	benign
rs2822558	NP_742021	S	N	SN	benign
rs2822785	NP_071419	Y	H	YH	benign
rs2822786	NP_071419	P	L	PL	probably damaging
rs2822787	NP_071419	D	N	DN	benign
rs2824494	NP_059143	Y	H	YH	possibly damaging
rs2824495	NP_059143	N	K	NK	benign
rs2824721	NP_002763	S	P	SP	benign
rs2824790	NP_002763	Q	E	QE	benign
rs2824804	NP_002763	K	R	KR	benign
rs2825214	XP_371409	C	Y	CY	probably damaging
rs2829897	NP_002031	A	V	AV	benign
rs2829900	NP_002031	E	K	EK	benign
rs2830585	NP_008969	R	H	RH	benign
rs2832126	XP_497781	D	E	DE	benign
rs2832127	XP_497781	R	Q	RQ	benign
rs2832129	XP_497781	P	R	PR	probably damaging
rs2832131	XP_497781	V	F	VF	benign
rs2832851	NP_853630	Q	H	QH	possibly damaging
rs2832873	NP_853654	L	M	LM	benign
rs2834167	NP_000619	K	E	KE	benign
rs2835239	NP_059134	I	V	IV	benign
rs2835285	NP_001227	V	I	VI	benign
rs2837029	NP_689718	G	S	GS	benign
rs2837225	XP_086761	D	E	DE	benign
rs2838012	NP_478066	V	M	VM	benign
rs2838171	NP_733751	I	N	IN	probably damaging
rs2838497	NP_937798	L	V	LV	benign

rs2838497	NP_004640	L	V	LV	benign
rs2838602	NP_859016	V	D	VD	probably damaging
rs2838622	NP_859012	S	P	SP	probably damaging
rs2839110	NP_478054	N	S	NS	benign
rs2839110	NP_478055	N	S	NS	benign
rs2839158	NP_002331	R	Q	RQ	benign
rs2839223	NP_006022	G	E	GE	possibly damaging
rs2839227	NP_006022	T	A	TA	benign
rs2839245	NP_006022	L	P	LP	possibly damaging
rs2839256	NP_006022	A	T	AT	benign
rs2839421	NP_950251	V	A	VA	benign
rs2839500	NP_115781	I	V	IV	benign
rs2839500	NP_115780	I	V	IV	benign
rs2839672	NP_000809	P	Q	PQ	probably damaging
rs2839673	NP_000809	G	E	GE	benign
rs2839678	NP_000809	G	A	GA	possibly damaging
rs2839858	NP_054644	E	A	EA	benign
rs2839858	NP_000784	E	A	EA	benign
rs2839859	NP_054644	A	D	AD	possibly damaging
rs2839859	NP_000784	A	D	AD	possibly damaging
rs2840568	NP_000690	W	C	WC	probably damaging
rs2841280	NP_620145	E	Q	EQ	benign
rs2842058	NP_660310	W	R	WR	probably damaging
rs2842536	NP_056386	A	P	AP	benign
rs2842726	NP_076427	P	S	PS	possibly damaging
rs2843414	NP_115288	I	V	IV	benign
rs2843414	NP_002472	I	V	IV	benign
rs2843493	NP_056372	S	P	SP	benign
rs2844426	NP_031363	L	M	LM	benign
rs2844426	NP_005097	L	M	LM	benign
rs2844427	NP_031363	L	I	LI	benign
rs2844427	NP_005097	L	I	LI	benign
rs2844491	NP_004629	G	A	GA	possibly damaging
rs2844491	NP_542417	G	A	GA	possibly damaging
rs2844707	XP_376479	S	A	SA	benign
rs2844818	NP_002107	V	M	VM	benign
rs2844887	XP_066243	P	S	PS	benign
rs2844888	XP_066243	P	L	PL	benign
rs2845497	XP_371430	R	H	RH	possibly damaging
rs2845703	NP_478100	A	P	AP	benign
rs2845703	NP_036233	A	P	AP	benign
rs2845704	NP_478100	A	G	AG	benign
rs2845704	NP_036233	A	G	AG	benign
rs2846004	XP_496769	R	C	RC	possibly damaging
rs2846260	XP_061880	Y	H	YH	benign
rs2846275	XP_061880	K	N	KN	benign



rs2846412	NP_055880	N	S	NS	benign
rs2846707	NP_071405	V	M	VM	possibly damaging
rs2847092	NP_005397	Q	E	QE	benign
rs2847146	NP_689565	E	K	EK	benign
rs2847620	NP_059982	Y	S	YS	probably damaging
rs2847620	NP_974487	Y	S	YS	probably damaging
rs2848706	NP_001935	R	K	RK	benign
rs2848984	NP_536739	P	H	PH	possibly damaging
rs2849233	NP_114145	A	T	AT	benign
rs2850196	XP_061880	G	V	GV	probably damaging
rs2851557	NP_004467	P	S	PS	benign
rs2852003	NP_001932	D	A	DA	benign
rs2852003	NP_077741	D	A	DA	possibly damaging
rs2852413	XP_372400	I	M	IM	benign
rs2852414	XP_372400	R	T	RT	benign
rs2852415	XP_372400	I	T	IT	benign
rs2852416	XP_372400	T	N	TN	benign
rs2852464	NP_002273	I	M	IM	possibly damaging
rs2852470	NP_002274	W	G	WG	probably damaging
rs2852471	NP_002274	W	L	WL	probably damaging
rs2853217	NP_075556	A	P	AP	benign
rs2853344	NP_002408	V	A	VA	benign
rs2853345	NP_002408	W	L	WL	probably damaging
rs2853658	NP_057596	R	Q	RQ	benign
rs2853699	NP_005192	A	G	AG	benign
rs2853778	NP_001924	R	T	RT	probably damaging
rs2853897	NP_002990	R	K	RK	benign
rs2853898	NP_002990	S	N	SN	benign
rs2854168	NP_072166	R	K	RK	benign
rs2854168	NP_001308	R	K	RK	benign
rs2854169	NP_072166	S	W	SW	possibly damaging
rs2854169	NP_001308	S	W	SW	probably damaging
rs2854173	NP_072166	F	C	FC	possibly damaging
rs2854389	NP_000085	A	E	AE	benign
rs2854482	NP_995317	F	Y	FY	benign
rs2854486	NP_995317	V	A	VA	benign
rs2854581	NP_000287	S	T	ST	benign
rs2854584	NP_000287	G	A	GA	possibly damaging
rs2854585	NP_000287	Q	H	QH	possibly damaging
rs2854586	NP_000287	Q	H	QH	benign
rs2854617	NP_000287	A	T	AT	benign
rs2854618	NP_000287	V	M	VM	benign
rs2854624	NP_000287	P	A	PA	probably damaging
rs2854650	NP_005128	S	P	SP	benign
rs2854709	NP_000026	E	D	ED	benign
rs2854737	NP_000410	P	A	PA	probably damaging

rs2854746	NP_000589	G	A	GA	benign
rs2854909	NP_006518	A	V	AV	benign
rs2855009	NP_000350	V	I	VI	benign
rs2855111	NP_000350	D	E	DE	benign
rs2855335	NP_000287	P	A	PA	benign
rs2855336	NP_000287	A	P	AP	probably damaging
rs2855337	NP_000287	A	T	AT	benign
rs2855341	NP_000287	V	M	VM	benign
rs2855342	NP_000287	Q	R	QR	benign
rs2855347	NP_000287	A	G	AG	benign
rs2855348	NP_000287	L	M	LM	benign
rs2855350	NP_000287	T	N	TN	benign
rs2855430	NP_542410	P	L	PL	benign
rs2855430	NP_542411	P	L	PL	benign
rs2855430	NP_542412	P	L	PL	benign
rs2855480	NP_115564	D	N	DN	benign
rs2855495	NP_002961	K	E	KE	benign
rs2855505	NP_542410	A	P	AP	benign
rs2855505	NP_542411	A	P	AP	benign
rs2855505	NP_542412	A	P	AP	benign
rs2855586	NP_001657	E	K	EK	benign
rs2855677	XP_497524	Y	H	YH	benign
rs2855762	NP_958786	E	Q	EQ	benign
rs2855762	NP_958785	E	Q	EQ	benign
rs2855762	NP_958784	E	Q	EQ	benign
rs2855762	NP_958783	E	Q	EQ	benign
rs2855762	NP_958782	E	Q	EQ	benign
rs2855762	NP_958781	E	Q	EQ	benign
rs2855762	NP_958780	E	Q	EQ	benign
rs2855762	NP_000436	E	Q	EQ	benign
rs2855763	NP_958786	A	P	AP	benign
rs2855763	NP_958785	A	P	AP	benign
rs2855763	NP_958784	A	P	AP	benign
rs2855763	NP_958783	A	P	AP	benign
rs2855763	NP_958782	A	P	AP	benign
rs2855763	NP_958781	A	P	AP	benign
rs2855763	NP_958780	A	P	AP	benign
rs2855763	NP_000436	A	P	AP	benign
rs2855764	NP_958786	K	N	KN	benign
rs2855764	NP_958785	K	N	KN	benign
rs2855764	NP_958784	K	N	KN	benign
rs2855764	NP_958783	K	N	KN	benign
rs2855764	NP_958782	K	N	KN	benign
rs2855764	NP_958781	K	N	KN	benign
rs2855764	NP_958780	K	N	KN	benign
rs2855764	NP_000436	K	N	KN	benign

rs2856347	NP_000834	S	F	SF	possibly damaging
rs2856383	NP_068822	G	A	GA	benign
rs2856383	NP_068819	A	G	AG	possibly damaging
rs2856383	NP_004952	G	A	GA	possibly damaging
rs2856383	NP_068830	G	A	GA	possibly damaging
rs2856386	NP_068822	F	L	FL	benign
rs2856386	NP_004952	F	L	FL	possibly damaging
rs2856386	NP_068830	F	L	FL	possibly damaging
rs2856386	NP_068819	L	F	LF	possibly damaging
rs2856398	XP_377136	P	T	PT	possibly damaging
rs2856444	NP_061978	A	E	AE	benign
rs2856446	NP_061978	D	V	DV	benign
rs2856447	NP_061978	D	E	DE	benign
rs2856453	NP_115859	V	I	VI	benign
rs2856454	NP_115859	N	T	NT	benign
rs2856456	NP_115859	M	I	MI	benign
rs2856655	NP_000247	Q	R	QR	possibly damaging
rs2856748	NP_005174	A	G	AG	benign
rs2856749	NP_005174	E	V	EV	possibly damaging
rs2856833	NP_000490	F	L	FL	possibly damaging
rs2856848	NP_001996	L	V	LV	benign
rs2856966	NP_001108	G	D	GD	benign
rs2857007	NP_061978	C	R	CR	probably damaging
rs2857010	NP_061978	R	S	RS	benign
rs2857042	NP_002408	T	R	TR	benign
rs2857465	NP_001118	T	A	TA	benign
rs2857465	NP_663782	T	A	TA	benign
rs2857543	NP_000247	E	D	ED	benign
rs2857663	NP_002273	C	R	CR	possibly damaging
rs2857703	NP_004629	G	A	GA	possibly damaging
rs2857703	NP_542417	G	A	GA	possibly damaging
rs2857713	NP_000586	C	R	CR	benign
rs2857766	NP_002424	V	L	VL	benign
rs2857766	NP_996533	V	L	VL	benign
rs2857766	NP_996532	V	L	VL	benign
rs2857804	NP_958786	L	F	LF	benign
rs2857804	NP_958785	L	F	LF	benign
rs2857804	NP_958784	L	F	LF	benign
rs2857804	NP_958783	L	F	LF	benign
rs2857804	NP_958782	L	F	LF	benign
rs2857804	NP_958781	L	F	LF	benign
rs2857804	NP_958780	L	F	LF	benign
rs2857804	NP_000436	L	F	LF	benign
rs2857808	NP_958786	A	S	AS	benign
rs2857808	NP_958785	A	S	AS	benign
rs2857808	NP_958784	A	S	AS	benign

rs2857808	NP_958783	A	S	AS	benign
rs2857808	NP_958782	A	S	AS	benign
rs2857808	NP_958781	A	S	AS	benign
rs2857808	NP_958780	A	S	AS	benign
rs2857808	NP_000436	A	S	AS	benign
rs2857809	NP_958786	A	G	AG	benign
rs2857809	NP_958785	A	G	AG	benign
rs2857809	NP_958784	A	G	AG	benign
rs2857809	NP_958783	A	G	AG	benign
rs2857809	NP_958782	A	G	AG	benign
rs2857809	NP_958781	A	G	AG	benign
rs2857809	NP_958780	A	G	AG	benign
rs2857809	NP_000436	A	G	AG	benign
rs2857812	NP_958786	A	V	AV	benign
rs2857812	NP_958785	A	V	AV	benign
rs2857812	NP_958784	A	V	AV	benign
rs2857812	NP_958783	A	V	AV	benign
rs2857812	NP_958782	A	V	AV	benign
rs2857812	NP_958781	A	V	AV	benign
rs2857812	NP_958780	A	V	AV	benign
rs2857812	NP_000436	A	V	AV	benign
rs2857813	NP_958786	A	G	AG	benign
rs2857813	NP_958785	A	G	AG	benign
rs2857813	NP_958784	A	G	AG	benign
rs2857813	NP_958783	A	G	AG	benign
rs2857813	NP_958782	A	G	AG	benign
rs2857813	NP_958781	A	G	AG	benign
rs2857813	NP_958780	A	G	AG	benign
rs2857813	NP_000436	A	G	AG	benign
rs2857816	NP_958786	R	K	RK	benign
rs2857816	NP_958785	R	K	RK	benign
rs2857816	NP_958784	R	K	RK	benign
rs2857816	NP_958783	R	K	RK	benign
rs2857816	NP_958782	R	K	RK	benign
rs2857816	NP_958781	R	K	RK	benign
rs2857816	NP_958780	R	K	RK	benign
rs2857816	NP_000436	R	K	RK	benign
rs2857817	NP_958786	R	K	RK	benign
rs2857817	NP_958785	R	K	RK	benign
rs2857817	NP_958784	R	K	RK	benign
rs2857817	NP_958783	R	K	RK	benign
rs2857817	NP_958782	R	K	RK	benign
rs2857817	NP_958781	R	K	RK	benign
rs2857817	NP_958780	R	K	RK	benign
rs2857817	NP_000436	R	K	RK	benign
rs2857821	NP_958786	F	L	FL	benign

rs2857821	NP_958785	F	L	FL	benign
rs2857821	NP_958784	F	L	FL	benign
rs2857821	NP_958783	F	L	FL	benign
rs2857821	NP_958782	F	L	FL	benign
rs2857821	NP_958781	F	L	FL	benign
rs2857821	NP_958780	F	L	FL	benign
rs2857821	NP_000436	F	L	FL	benign
rs2857822	NP_958786	M	I	MI	benign
rs2857822	NP_958785	M	I	MI	benign
rs2857822	NP_958784	M	I	MI	benign
rs2857822	NP_958783	M	I	MI	benign
rs2857822	NP_958782	M	I	MI	benign
rs2857822	NP_958781	M	I	MI	benign
rs2857822	NP_958780	M	I	MI	benign
rs2857822	NP_000436	M	I	MI	benign
rs2857823	NP_958786	A	T	AT	benign
rs2857823	NP_958785	A	T	AT	benign
rs2857823	NP_958784	A	T	AT	benign
rs2857823	NP_958783	A	T	AT	benign
rs2857823	NP_958782	A	T	AT	benign
rs2857823	NP_958781	A	T	AT	benign
rs2857823	NP_958780	A	T	AT	benign
rs2857823	NP_000436	A	T	AT	benign
rs2857824	NP_958786	R	C	RC	possibly damaging
rs2857824	NP_958785	R	C	RC	possibly damaging
rs2857824	NP_958784	R	C	RC	possibly damaging
rs2857824	NP_958783	R	C	RC	possibly damaging
rs2857824	NP_958782	R	C	RC	possibly damaging
rs2857824	NP_958781	R	C	RC	possibly damaging
rs2857824	NP_958780	R	C	RC	possibly damaging
rs2857824	NP_000436	R	C	RC	possibly damaging
rs2857827	NP_958786	R	K	RK	benign
rs2857827	NP_958785	R	K	RK	benign
rs2857827	NP_958784	R	K	RK	benign
rs2857827	NP_958783	R	K	RK	benign
rs2857827	NP_958782	R	K	RK	benign
rs2857827	NP_958781	R	K	RK	benign
rs2857827	NP_958780	R	K	RK	benign
rs2857827	NP_000436	R	K	RK	benign
rs2857831	NP_958786	Q	R	QR	benign
rs2857831	NP_958785	Q	R	QR	benign
rs2857831	NP_958784	Q	R	QR	benign
rs2857831	NP_958783	Q	R	QR	benign
rs2857831	NP_958782	Q	R	QR	benign
rs2857831	NP_958781	Q	R	QR	benign
rs2857831	NP_958780	Q	R	QR	benign

rs2857831	NP_000436	Q	R	QR	benign
rs2857832	NP_958786	S	A	SA	benign
rs2857832	NP_958785	S	A	SA	benign
rs2857832	NP_958784	S	A	SA	benign
rs2857832	NP_958783	S	A	SA	benign
rs2857832	NP_958782	S	A	SA	benign
rs2857832	NP_958781	S	A	SA	benign
rs2857832	NP_958780	S	A	SA	benign
rs2857832	NP_000436	S	A	SA	benign
rs2857833	NP_958786	K	E	KE	benign
rs2857833	NP_958785	K	E	KE	benign
rs2857833	NP_958784	K	E	KE	benign
rs2857833	NP_958783	K	E	KE	benign
rs2857833	NP_958782	K	E	KE	benign
rs2857833	NP_958781	K	E	KE	benign
rs2857833	NP_958780	K	E	KE	benign
rs2857833	NP_000436	K	E	KE	benign
rs2857834	NP_958786	A	E	AE	benign
rs2857834	NP_958785	A	E	AE	benign
rs2857834	NP_958784	A	E	AE	benign
rs2857834	NP_958783	A	E	AE	benign
rs2857834	NP_958782	A	E	AE	benign
rs2857834	NP_958781	A	E	AE	benign
rs2857834	NP_958780	A	E	AE	benign
rs2857834	NP_000436	A	E	AE	benign
rs2857836	NP_001657	S	L	SL	benign
rs2858039	XP_035572	C	F	CF	possibly damaging
rs2859787	NP_000287	R	G	RG	probably damaging
rs2859834	NP_002349	L	M	LM	benign
rs2860036	NP_667345	P	S	PS	possibly damaging
rs2860036	NP_002495	P	S	PS	possibly damaging
rs2860036	NP_667344	P	S	PS	possibly damaging
rs2860112	NP_006652	D	N	DN	benign
rs2860677	NP_061993	I	V	IV	benign
rs2860677	NP_061756	V	I	VI	benign
rs2860678	NP_061993	A	T	AT	benign
rs2860678	NP_061756	T	A	TA	benign
rs2861397	NP_115708	C	S	CS	probably damaging
rs2861398	NP_115708	C	R	CR	probably damaging
rs2861508	XP_498210	K	E	KE	benign
rs2861729	NP_055747	E	A	EA	possibly damaging
rs2861949	NP_002620	F	L	FL	probably damaging
rs2862768	NP_005806	E	G	EG	possibly damaging
rs2862934	NP_006586	G	S	GS	possibly damaging
rs2862954	NP_006450	I	V	IV	benign
rs2863458	NP_872429	K	E	KE	benign

rs2863712	NP_066940	W	G	WG	probably damaging
rs2863713	NP_005447	R	W	RW	possibly damaging
rs2865022	XP_497958	S	P	SP	benign
rs2865023	XP_497958	T	M	TM	possibly damaging
rs2865024	XP_497958	N	S	NS	benign
rs2865025	XP_497958	T	M	TM	benign
rs2865026	XP_497958	Y	H	YH	benign
rs2865027	XP_497958	S	F	SF	benign
rs2865031	XP_211908	Q	E	QE	benign
rs2865032	XP_211908	V	M	VM	benign
rs2865033	XP_211908	V	G	VG	possibly damaging
rs2865034	XP_211908	G	R	GR	probably damaging
rs2865265	NP_776256	C	Y	CY	benign
rs2865394	NP_110403	R	Q	RQ	benign
rs2865519	XP_372403	T	A	TA	benign
rs2865520	XP_372403	T	I	TI	possibly damaging
rs2866413	NP_005899	T	M	TM	possibly damaging
rs2867400	XP_166917	L	M	LM	benign
rs2868458	NP_689477	P	R	PR	possibly damaging
rs2868617	XP_496237	K	E	KE	benign
rs2868645	NP_055613	A	T	AT	benign
rs2868646	NP_055613	T	M	TM	benign
rs2869020	XP_166878	I	F	IF	benign
rs2870128	XP_496322	I	T	IT	benign
rs2870476	NP_006201	A	P	AP	benign
rs2870983	NP_057419	A	T	AT	benign
rs2870984	NP_057419	T	M	TM	possibly damaging
rs2870998	NP_057419	A	P	AP	benign
rs2871000	NP_057419	T	A	TA	benign
rs2872523	NP_005620	A	V	AV	benign
rs2872524	NP_005620	V	M	VM	benign
rs2872954	NP_065143	P	T	PT	benign
rs2873587	NP_112155	H	R	HR	benign
rs2873667	XP_372500	H	Q	HQ	possibly damaging
rs2874756	XP_209910	G	S	GS	benign
rs2876098	NP_995586	E	A	EA	benign
rs2876098	NP_786887	E	A	EA	benign
rs2876714	NP_066278	V	I	VI	benign
rs2876831	XP_036729	A	T	AT	benign
rs2876960	NP_003298	E	K	EK	benign
rs2877380	NP_116172	L	M	LM	benign
rs2878067	NP_958802	Y	N	YN	probably damaging
rs2878067	NP_963892	Y	N	YN	probably damaging
rs2878322	NP_116027	H	P	HP	benign
rs2879097	XP_375449	R	C	RC	possibly damaging
rs2879227	NP_114400	V	L	VL	benign

rs2879227	NP_061739	V	L	VL	benign
rs2879401	NP_000141	G	E	GE	benign
rs2880572	XP_496026	T	K	TK	possibly damaging
rs2880956	XP_370839	G	E	GE	benign
rs2880956	XP_496096	G	E	GE	benign
rs2881308	NP_004658	L	P	LP	possibly damaging
rs2881418	XP_371832	I	F	IF	benign
rs2881468	NP_003613	N	S	NS	benign
rs2881468	NP_803193	N	S	NS	benign
rs2882686	XP_375085	L	P	LP	possibly damaging
rs2883843	XP_498241	T	R	TR	possibly damaging
rs2884015	NP_861421	L	M	LM	benign
rs2884554	XP_496299	K	R	KR	benign
rs2884613	XP_497652	L	Q	LQ	benign
rs2884614	XP_497652	C	Y	CY	possibly damaging
rs2884615	XP_497652	M	T	MT	benign
rs2884673	XP_372763	E	K	EK	benign
rs2886041	XP_012219	G	C	GC	probably damaging
rs2886059	NP_036322	V	F	VF	benign
rs2886059	NP_658989	V	F	VF	benign
rs2886143	NP_002198	K	Q	KQ	benign
rs2886313	NP_056952	P	S	PS	benign
rs2886313	NP_055326	P	S	PS	benign
rs2886443	NP_006608	P	L	PL	possibly damaging
rs2887147	NP_775489	A	V	AV	benign
rs2888020	XP_168530	K	Q	KQ	benign
rs2888782	NP_036581	F	L	FL	benign
rs2888805	NP_003202	V	M	VM	benign
rs2889109	NP_061720	P	L	PL	probably damaging
rs2889732	NP_872325	N	T	NT	benign
rs2890389	XP_497067	L	I	LI	benign
rs2890565	NP_068835	S	N	SN	benign
rs2890565	NP_006777	S	N	SN	benign
rs2893084	NP_062556	T	A	TA	benign
rs2893848	NP_076923	N	S	NS	benign
rs2896399	NP_060866	C	R	CR	probably damaging
rs2896521	NP_695023	D	G	DG	possibly damaging
rs2896523	NP_695023	Q	H	QH	probably damaging
rs2896525	NP_695023	H	R	HR	benign
rs2897598	XP_372640	T	M	TM	benign
rs2897665	XP_496593	S	G	SG	benign
rs2898095	NP_001037	S	T	ST	benign
rs2898199	NP_000810	E	D	ED	benign
rs2898323	XP_372030	R	G	RG	benign
rs2898323	XP_372028	R	G	RG	benign
rs2898842	XP_370958	P	L	PL	benign



rs2898927	XP_372420	G	R	GR	benign
rs2898928	XP_372420	G	R	GR	possibly damaging
rs2899151	XP_496524	Q	R	QR	benign
rs2899294	NP_057175	L	I	LI	benign
rs2899642	NP_060080	N	K	NK	benign
rs2899849	NP_057670	H	L	HL	benign
rs2900268	NP_116188	L	Q	LQ	possibly damaging
rs2900307	XP_498338	C	S	CS	benign
rs2900373	XP_210752	E	D	ED	possibly damaging
rs2900692	XP_377073	G	R	GR	possibly damaging
rs2900692	NP_878908	G	R	GR	possibly damaging
rs2901166	NP_722517	A	G	AG	benign
rs2901863	NP_002389	F	V	FV	probably damaging
rs2902545	NP_066940	D	Y	DY	probably damaging
rs2902546	NP_005447	R	L	RL	possibly damaging
rs2902911	XP_497958	V	L	VL	benign
rs2903150	NP_777612	I	V	IV	benign
rs2903250	NP_689751	T	P	TP	benign
rs2903566	XP_166917	S	I	SI	probably damaging
rs2903808	NP_542790	A	V	AV	benign
rs2904143	NP_542415	E	K	EK	benign
rs2904143	NP_542416	E	K	EK	benign
rs2904143	NP_006255	E	K	EK	benign
rs2904143	NP_542414	E	K	EK	benign
rs2904551	NP_057419	L	P	LP	possibly damaging
rs2904552	NP_057419	R	H	RH	possibly damaging
rs2904682	NP_057437	T	A	TA	benign
rs2904880	NP_001761	V	L	VL	benign
rs2904914	NP_612405	G	D	GD	possibly damaging
rs2904923	NP_543029	E	G	EG	benign
rs2904923	NP_954578	E	G	EG	benign
rs2904979	XP_495881	T	I	TI	benign
rs2904982	XP_495881	V	F	VF	possibly damaging
rs2905469	XP_496237	R	H	RH	probably damaging
rs2905938	NP_004658	R	Q	RQ	benign
rs2905939	NP_004658	P	L	PL	probably damaging
rs2906696	XP_373180	A	V	AV	benign
rs2906696	XP_498230	V	A	VA	benign
rs2906890	NP_001073	P	R	PR	possibly damaging
rs2906891	NP_001073	W	C	WC	probably damaging
rs2906997	NP_009086	M	V	MV	benign
rs2906998	NP_009086	H	R	HR	benign
rs2906999	NP_009086	S	P	SP	benign
rs2907300	NP_061758	G	E	GE	benign
rs2907323	NP_061753	T	R	TR	probably damaging
rs2907324	NP_061753	D	H	DH	benign

rs2907373	NP_060035	S	L	SL	possibly damaging
rs2907471	XP_496227	H	R	HR	possibly damaging
rs2908004	NP_057171	G	R	GR	benign
rs2908004	NP_476509	G	R	GR	possibly damaging
rs2908765	XP_496500	A	V	AV	benign
rs2909097	NP_116078	A	S	AS	benign
rs2909111	NP_060229	V	A	VA	benign
rs2909148	NP_872440	L	P	LP	benign
rs2909229	NP_003881	H	D	HD	probably damaging
rs2909888	NP_006624	E	K	EK	benign
rs2910005	NP_061756	V	I	VI	benign
rs2910006	NP_061755	K	E	KE	possibly damaging
rs2910313	NP_061763	V	L	VL	benign
rs2910314	NP_061763	R	W	RW	probably damaging
rs2910327	NP_061755	T	I	TI	probably damaging
rs2910329	NP_061756	R	G	RG	benign
rs2911085	XP_496159	S	G	SG	benign
rs2911826	NP_085911	Q	E	QE	benign
rs2912444	NP_066002	L	V	LV	benign
rs2912695	XP_496581	N	D	ND	benign
rs2913782	NP_071916	H	D	HD	possibly damaging
rs2913783	NP_071916	S	G	SG	benign
rs2913955	NP_940873	T	A	TA	benign
rs2914604	NP_002308	A	P	AP	benign
rs2915791	NP_714544	V	F	VF	benign
rs2915931	XP_047550	Q	R	QR	benign
rs2915931	XP_047554	R	Q	RQ	benign
rs2915960	NP_000531	A	V	AV	benign
rs2915986	NP_006728	F	I	FI	benign
rs2915987	NP_006728	Y	H	YH	benign
rs2916003	NP_055033	G	D	GD	benign
rs2916014	NP_055033	C	W	CW	probably damaging
rs2916014	NP_055034	C	W	CW	probably damaging
rs2916050	NP_036446	I	S	IS	benign
rs2916115	NP_060583	D	E	DE	benign
rs2916413	NP_819056	I	M	IM	benign
rs2916414	NP_819056	D	E	DE	benign
rs2916549	XP_290660	T	K	TK	possibly damaging
rs2917782	NP_631910	E	K	EK	benign
rs2917862	NP_598000	M	T	MT	benign
rs2918549	XP_498938	S	L	SL	benign
rs2918640	XP_496581	G	D	GD	possibly damaging
rs2919157	XP_496581	V	I	VI	benign
rs2919158	XP_496581	Q	R	QR	benign
rs2919159	XP_496581	P	L	PL	probably damaging
rs2919168	XP_496581	K	E	KE	benign

rs2919180	XP_496581	V	M	VM	benign
rs2919181	XP_496581	L	W	LW	possibly damaging
rs2919358	XP_372573	A	V	AV	benign
rs2919661	NP_602310	D	H	DH	possibly damaging
rs2919661	NP_036547	D	H	DH	possibly damaging
rs2920048	NP_036214	E	D	ED	benign
rs2920217	NP_660334	Y	S	YS	possibly damaging
rs2920716	XP_497936	E	K	EK	benign
rs2920780	NP_714544	H	R	HR	possibly damaging
rs2920791	NP_714544	L	F	LF	benign
rs2921293	NP_954714	H	R	HR	benign
rs2921563	NP_861451	R	H	RH	benign
rs2922546	NP_066021	T	I	TI	benign
rs2922828	NP_078872	A	T	AT	benign
rs2923144	NP_115645	N	K	NK	possibly damaging
rs2923147	NP_115645	C	R	CR	benign
rs2924765	NP_919271	V	A	VA	benign
rs2925304	NP_077816	S	C	SC	benign
rs2925741	NP_060849	K	T	KT	benign
rs2925930	NP_975011	T	A	TA	benign
rs2927007	XP_496769	H	Q	HQ	possibly damaging
rs2927007	XP_376474	Q	H	QH	possibly damaging
rs2927014	XP_496770	T	P	TP	benign
rs2929155	NP_055087	G	S	GS	benign
rs2929156	NP_055087	A	P	AP	benign
rs2929158	NP_055087	V	A	VA	benign
rs2929366	NP_653316	I	T	IT	benign
rs2929516	NP_008832	T	I	TI	benign
rs2930202	XP_374985	E	Q	EQ	benign
rs2930509	XP_377797	G	D	GD	probably damaging
rs2930562	NP_665808	H	R	HR	probably damaging
rs2930761	XP_496496	P	L	PL	possibly damaging
rs2930861	NP_037452	I	V	IV	benign
rs2931403	NP_653316	I	V	IV	benign
rs2932545	NP_057532	E	A	EA	benign
rs2933093	XP_291625	M	I	MI	benign
rs2933093	XP_291638	M	I	MI	benign
rs2933095	XP_291625	T	I	TI	benign
rs2933095	XP_291638	T	I	TI	benign
rs2934043	XP_496034	G	S	GS	benign
rs2934043	XP_496046	G	S	GS	benign
rs2934461	XP_496134	L	P	LP	possibly damaging
rs2935017	NP_002191	Q	R	QR	benign
rs2935017	NP_116032	Q	R	QR	benign
rs2935161	XP_372563	R	G	RG	probably damaging
rs2935264	XP_496868	P	L	PL	probably damaging

rs2935840	XP_498818	R	K	RK	benign
rs2935858	XP_034717	I	T	IT	benign
rs2936051	XP_496436	E	G	EG	benign
rs2936051	XP_371369	E	G	EG	benign
rs2936052	XP_496436	K	R	KR	benign
rs2936052	XP_371369	K	R	KR	benign
rs2936053	XP_371369	K	E	KE	benign
rs2936817	XP_046264	H	Y	HY	benign
rs2937026	NP_036258	T	A	TA	benign
rs2937026	NP_078809	T	A	TA	benign
rs2938229	XP_498277	H	R	HR	benign
rs2938404	XP_372563	P	S	PS	possibly damaging
rs2938404	XP_372565	P	S	PS	possibly damaging
rs2939283	XP_496692	D	E	DE	benign
rs2939587	NP_510883	R	L	RL	possibly damaging
rs2939587	NP_079417	R	L	RL	possibly damaging
rs2940315	XP_059074	L	F	LF	benign
rs2941256	NP_060897	I	M	IM	benign
rs2941679	NP_859063	L	V	LV	benign
rs2941962	XP_496239	Q	H	QH	benign
rs2942194	NP_061049	I	V	IV	benign
rs2942402	NP_112224	S	G	SG	benign
rs2942671	NP_776173	R	G	RG	probably damaging
rs2942672	NP_776173	R	W	RW	probably damaging
rs2943085	XP_497472	Q	E	QE	benign
rs2943336	XP_056254	Q	R	QR	benign
rs2943416	NP_057404	S	F	SF	possibly damaging
rs2943625	NP_714923	D	H	DH	possibly damaging
rs2943855	XP_496559	I	M	IM	benign
rs2943892	XP_496559	S	R	SR	benign
rs2943894	XP_496581	Q	R	QR	benign
rs2944550	NP_073153	E	K	EK	benign
rs2945249	XP_496963	R	Q	RQ	benign
rs2945252	XP_496963	G	V	GV	probably damaging
rs2945477	XP_496239	T	N	TN	benign
rs2946190	XP_496692	A	T	AT	benign
rs2946994	NP_073713	E	Q	EQ	benign
rs2947976	XP_498204	T	A	TA	benign
rs2948282	XP_376756	A	V	AV	benign
rs2948282	XP_496962	A	V	AV	benign
rs2948386	XP_376681	Y	H	YH	benign
rs2949097	NP_060734	R	H	RH	benign
rs2949832	XP_496869	Y	C	YC	probably damaging
rs2950178	XP_498230	D	G	DG	benign
rs2950178	XP_373180	G	D	GD	possibly damaging
rs2950354	XP_374836	S	L	SL	benign

rs2950543	XP_209429	S	F	SF	benign
rs2950724	XP_496576	K	E	KE	benign
rs2950726	XP_496576	E	Q	EQ	benign
rs2950844	NP_061993	Q	E	QE	benign
rs2950845	NP_061993	N	K	NK	possibly damaging
rs2951236	XP_496581	P	A	PA	possibly damaging
rs2951622	XP_496692	V	F	VF	benign
rs2953555	NP_009201	R	H	RH	possibly damaging
rs2953556	NP_009201	N	S	NS	benign
rs2953564	NP_009201	V	A	VA	benign
rs2954480	XP_372097	C	W	CW	probably damaging
rs2954579	XP_496026	L	P	LP	probably damaging
rs2954580	XP_496026	Q	H	QH	possibly damaging
rs2954587	XP_375150	E	K	EK	benign
rs2954730	NP_006531	V	L	VL	benign
rs2955190	XP_497279	V	L	VL	benign
rs2955365	NP_057323	A	T	AT	benign
rs2955367	NP_057323	W	G	WG	probably damaging
rs2956139	XP_495878	G	S	GS	benign
rs2956723	NP_075593	L	V	LV	benign
rs2956723	NP_075594	L	V	LV	benign
rs2956723	NP_075599	L	V	LV	benign
rs2956723	NP_056934	L	V	LV	benign
rs2956723	NP_000595	L	V	LV	benign
rs2957159	XP_290516	A	S	AS	benign
rs2957221	NP_057263	E	K	EK	benign
rs2957299	XP_496227	W	R	WR	possibly damaging
rs2957302	XP_496227	V	A	VA	benign
rs2957309	XP_496227	A	S	AS	benign
rs2957516	NP_078938	H	Y	HY	probably damaging
rs2957819	XP_047554	L	I	LI	possibly damaging
rs2958720	NP_004127	L	V	LV	benign
rs2958978	NP_919271	H	R	HR	benign
rs2958979	NP_919271	L	V	LV	benign
rs2959656	NP_570711	A	T	AT	benign
rs2959656	NP_570716	A	T	AT	benign
rs2959896	NP_003095	E	D	ED	benign
rs2959910	NP_002645	R	P	RP	probably damaging
rs2959910	NP_872270	R	P	RP	probably damaging
rs2959910	NP_872271	R	P	RP	probably damaging
rs2959953	XP_371057	P	R	PR	possibly damaging
rs2960306	NP_005298	R	L	RL	benign
rs2960306	NP_892027	R	L	RL	benign
rs2960546	NP_071347	P	R	PR	possibly damaging
rs2960754	NP_004659	A	S	AS	benign
rs2960999	XP_496891	R	W	RW	probably damaging

rs2961135	XP_373210	A	P	AP	probably damaging
rs2961144	XP_069619	I	V	IV	benign
rs2961149	XP_498253	F	L	FL	benign
rs2961160	XP_069616	S	I	SI	benign
rs2961161	XP_069616	S	R	SR	benign
rs2961663	NP_071916	G	S	GS	benign
rs2961665	NP_071916	E	D	ED	benign
rs2961944	NP_006416	M	T	MT	benign
rs2962297	XP_498029	W	R	WR	possibly damaging
rs2962525	NP_689763	R	W	RW	possibly damaging
rs2963620	XP_496769	D	A	DA	benign
rs2963622	XP_496770	D	N	DN	benign
rs2963622	XP_376416	N	D	ND	benign
rs2964834	XP_208333	Y	H	YH	benign
rs2965127	NP_036248	L	V	LV	benign
rs2966183	NP_060897	C	F	CF	probably damaging
rs2966256	XP_370968	S	G	SG	benign
rs2966332	NP_116117	M	T	MT	benign
rs2966879	NP_056952	C	S	CS	benign
rs2966879	NP_055326	C	S	CS	benign
rs2966952	NP_076996	K	R	KR	benign
rs2967596	NP_115528	D	E	DE	benign
rs2968042	XP_497613	L	R	LR	benign
rs2968557	NP_443085	S	P	SP	benign
rs2968558	NP_443085	S	G	SG	benign
rs2969802	NP_003581	D	H	DH	benign
rs2969930	XP_371116	C	W	CW	probably damaging
rs2970165	XP_209597	K	E	KE	benign
rs2970206	XP_374252	G	R	GR	possibly damaging
rs2971409	NP_003898	N	T	NT	benign
rs2971410	NP_003898	E	K	EK	benign
rs2971415	NP_003898	K	E	KE	benign
rs2971485	NP_776173	F	C	FC	benign
rs2971501	NP_776173	R	I	RI	probably damaging
rs2972810	XP_498639	R	K	RK	benign
rs2973275	NP_060772	A	T	AT	benign
rs2973558	XP_371755	H	N	HN	possibly damaging
rs2973566	XP_371755	R	K	RK	benign
rs2973571	XP_371755	S	L	SL	benign
rs2974290	NP_741996	D	N	DN	benign
rs2974446	NP_072044	Q	P	QP	benign
rs2974446	NP_003392	Q	P	QP	benign
rs2974446	NP_071801	Q	P	QP	benign
rs2974617	NP_061170	N	D	ND	benign
rs2974747	NP_060778	S	R	SR	benign
rs2974938	NP_002702	H	L	HL	possibly damaging

rs2974942	NP_002702	M	V	MV	benign
rs2974944	NP_002702	K	N	KN	benign
rs2975162	NP_003132	G	R	GR	benign
rs2975311	NP_066405	L	F	LF	benign
rs2975547	NP_055033	E	V	EV	probably damaging
rs2975547	NP_055034	E	V	EV	probably damaging
rs2975548	NP_055033	E	D	ED	possibly damaging
rs2975548	NP_055034	E	D	ED	possibly damaging
rs2975634	NP_006083	R	H	RH	benign
rs2975765	NP_075572	A	V	AV	benign
rs2975765	NP_075574	A	V	AV	benign
rs2975765	NP_075571	A	V	AV	benign
rs2975766	NP_067074	V	I	VI	benign
rs2975766	NP_075571	V	I	VI	benign
rs2975795	NP_060696	E	V	EV	benign
rs2976120	XP_497936	E	K	EK	benign
rs2976189	NP_620172	M	V	MV	benign
rs2976230	NP_002199	A	V	AV	benign
rs2976867	XP_291277	S	F	SF	benign
rs2976962	XP_291277	A	G	AG	benign
rs2977020	NP_653252	V	M	VM	benign
rs2977838	NP_570901	R	W	RW	possibly damaging
rs2978180	NP_056996	D	N	DN	benign
rs2978277	NP_002086	K	R	KR	benign
rs2978422	NP_056986	V	F	VF	benign
rs2979080	NP_003407	K	R	KR	benign
rs2979093	NP_085057	V	F	VF	benign
rs2979129	XP_291277	R	C	RC	possibly damaging
rs2980618	NP_116258	V	I	VI	benign
rs2980619	NP_116258	F	L	FL	possibly damaging
rs2980959	XP_498268	Y	C	YC	probably damaging
rs2981374	NP_001623	P	R	PR	probably damaging
rs2981482	NP_078904	R	Q	RQ	benign
rs2981545	XP_087386	E	K	EK	benign
rs2981546	XP_087386	S	P	SP	benign
rs2981599	NP_004212	D	G	DG	possibly damaging
rs2982092	XP_291395	D	V	DV	probably damaging
rs2982185	XP_496343	T	A	TA	possibly damaging
rs2982185	XP_496345	T	A	TA	possibly damaging
rs2982215	NP_075390	P	L	PL	probably damaging
rs2982225	XP_496344	A	V	AV	benign
rs2982320	NP_065112	P	A	PA	benign
rs2982486	XP_372768	M	K	MK	benign
rs2982534	NP_957704	F	V	FV	benign
rs2983388	XP_379639	G	R	GR	possibly damaging
rs2983388	XP_499140	G	R	GR	possibly damaging

rs2983592	NP_115793	K	E	KE	benign
rs2984134	NP_001814	E	D	ED	benign
rs2984165	NP_055327	P	L	PL	benign
rs2985131	NP_066278	W	G	WG	possibly damaging
rs2986017	NP_001001412	P	L	PL	benign
rs2987346	XP_166270	D	G	DG	possibly damaging
rs2987927	XP_059095	R	H	RH	possibly damaging
rs2987928	XP_059095	R	Q	RQ	possibly damaging
rs2988287	NP_113663	M	T	MT	benign
rs2988341	NP_710163	N	S	NS	benign
rs2988341	NP_004467	S	N	SN	benign
rs2988342	NP_004467	V	L	VL	benign
rs2988881	XP_379639	N	S	NS	benign
rs2988881	XP_499140	S	N	SN	benign
rs2989088	XP_497773	R	K	RK	benign
rs2989277	XP_496483	T	P	TP	benign
rs2989374	XP_497039	H	R	HR	benign
rs2989374	XP_497029	H	R	HR	benign
rs2989540	XP_376554	E	D	ED	benign
rs2989545	XP_376554	L	P	LP	benign
rs2989710	NP_954586	V	I	VI	benign
rs2989711	NP_954586	S	R	SR	possibly damaging
rs2990511	NP_001985	W	S	WS	probably damaging
rs2991344	NP_078779	A	D	AD	benign
rs2991836	XP_497242	A	T	AT	benign
rs2991836	XP_497231	A	T	AT	benign
rs2992752	NP_689588	P	T	PT	possibly damaging
rs2992753	NP_689588	N	H	NH	benign
rs2993206	NP_671728	G	A	GA	benign
rs2993631	NP_078904	R	C	RC	benign
rs2993726	NP_055627	A	V	AV	benign
rs2994101	XP_496343	D	G	DG	benign
rs2994101	XP_496345	D	G	DG	benign
rs2994498	XP_496270	P	L	PL	probably damaging
rs2996335	NP_671728	A	V	AV	benign
rs2996495	NP_000355	S	T	ST	benign
rs2996496	NP_000355	R	K	RK	benign
rs2996585	NP_878249	F	V	FV	possibly damaging
rs2997144	XP_495941	M	V	MV	possibly damaging
rs2997211	NP_775767	R	K	RK	benign
rs2998139	NP_208383	L	P	LP	benign
rs2998139	NP_689856	L	P	LP	possibly damaging
rs2998748	NP_068800	R	Q	RQ	benign
rs2999829	XP_496390	V	A	VA	benign
rs3000002	XP_496486	G	D	GD	possibly damaging
rs3000495	NP_954586	R	C	RC	possibly damaging



rs3000495	NP_954714	R	C	RC	possibly damaging
rs3000571	XP_497051	G	E	GE	possibly damaging
rs3000769	XP_290629	K	R	KR	benign
rs3000771	XP_290629	R	H	RH	benign
rs3001040	NP_004974	A	V	AV	benign
rs3003174	XP_027658	L	P	LP	benign
rs3003430	NP_057317	D	N	DN	benign
rs3003601	NP_057119	A	G	AG	benign
rs3003777	XP_372092	I	V	IV	benign
rs3003777	XP_497031	I	V	IV	benign
rs3005350	XP_497048	V	M	VM	benign
rs3006870	NP_775803	N	S	NS	benign
rs3007039	NP_002399	E	V	EV	possibly damaging
rs3007419	NP_065682	Q	R	QR	benign
rs3008319	NP_001100	I	T	IT	benign
rs3008390	NP_208383	V	D	VD	benign
rs3008390	NP_689856	V	D	VD	possibly damaging
rs3008858	NP_079039	W	C	WC	probably damaging
rs3010109	NP_689578	R	W	RW	possibly damaging
rs3010594	XP_376554	P	H	PH	probably damaging
rs3010788	NP_653168	C	W	CW	probably damaging
rs3010980	XP_378185	N	S	NS	benign
rs3011034	XP_372097	Y	S	YS	benign
rs3011137	XP_372097	A	T	AT	benign
rs3012075	NP_073713	H	Y	HY	benign
rs3012627	NP_004134	Q	H	QH	possibly damaging
rs3013236	NP_004397	S	L	SL	benign
rs3013939	NP_001621	A	S	AS	benign
rs3014061	XP_498484	L	Q	LQ	benign
rs3014061	XP_498479	L	Q	LQ	benign
rs3014062	XP_498479	R	S	RS	benign
rs3014062	XP_498484	S	R	SR	benign
rs3014242	NP_689713	P	L	PL	benign
rs3014244	NP_689713	G	W	GW	possibly damaging
rs3014626	NP_116222	S	N	SN	benign
rs3014837	NP_002954	D	E	DE	benign
rs3014939	XP_495949	E	K	EK	benign
rs3015957	NP_002385	R	P	RP	probably damaging
rs3016125	XP_371430	G	R	GR	benign
rs3016459	XP_061880	Q	R	QR	benign
rs3016727	XP_495876	Q	P	QP	benign
rs3016805	NP_150635	L	Q	LQ	benign
rs3016805	NP_150636	L	Q	LQ	benign
rs3016805	NP_150637	L	Q	LQ	benign
rs3016805	NP_001214	L	Q	LQ	benign
rs3016805	NP_150634	L	Q	LQ	benign

rs3017764	XP_372436	F	L	FL	benign
rs3018495	XP_496769	P	A	PA	probably damaging
rs3018749	XP_061880	L	M	LM	benign
rs3018757	NP_710163	T	I	TI	benign
rs3020630	NP_000922	D	N	DN	benign
rs3020630	NP_000921	D	N	DN	benign
rs3020630	NP_127509	D	N	DN	benign
rs3020901	NP_036371	G	S	GS	benign
rs3021084	NP_000097	P	L	PL	probably damaging
rs3021119	NP_004554	P	Q	PQ	benign
rs3021367	NP_612405	G	A	GA	benign
rs3021368	NP_612405	E	D	ED	benign
rs3021369	NP_612405	A	P	AP	benign
rs3021506	NP_056273	M	L	ML	possibly damaging
rs3021512	NP_444509	T	S	TS	benign
rs3021513	NP_444509	Q	H	QH	benign
rs3024472	NP_000120	V	I	VI	benign
rs3024477	NP_000120	Y	F	YF	benign
rs3024677	NP_000409	V	I	VI	benign
rs3024678	NP_000409	P	S	PS	possibly damaging
rs3024772	NP_003882	R	H	RH	benign
rs3024778	NP_003882	E	K	EK	probably damaging
rs3024801	NP_942140	L	F	LF	benign
rs3024809	NP_942140	R	H	RH	benign
rs3024839	NP_003142	I	V	IV	benign
rs3024933	NP_003142	R	W	RW	probably damaging
rs3024952	NP_003144	M	R	MR	possibly damaging
rs3025213	NP_000972	H	Q	HQ	probably damaging
rs3025380	NP_000778	G	A	GA	possibly damaging
rs3025421	NP_000778	W	S	WS	probably damaging
rs3025555	NP_919415	A	G	AG	benign
rs3025574	NP_003565	S	T	ST	benign
rs3025574	NP_919415	S	T	ST	benign
rs3025599	NP_003565	S	C	SC	possibly damaging
rs3025599	NP_919415	S	C	SC	possibly damaging
rs3025919	NP_000829	E	D	ED	benign
rs3025939	NP_005036	W	G	WG	probably damaging
rs3025939	NP_774959	W	G	WG	probably damaging
rs3025962	NP_005036	T	A	TA	benign
rs3025962	NP_774959	T	A	TA	benign
rs3025963	NP_005036	E	V	EV	benign
rs3025963	NP_774959	E	V	EV	benign
rs3025968	NP_005036	H	D	HD	probably damaging
rs3025968	NP_774959	H	D	HD	probably damaging
rs3025980	NP_620159	R	Q	RQ	benign
rs3025993	NP_004254	L	H	LH	possibly damaging

rs3026042	NP_862823	E	K	EK	benign
rs3026051	NP_003045	I	N	IN	probably damaging
rs3026099	NP_004694	E	G	EG	possibly damaging
rs3026123	NP_002523	A	S	AS	benign
rs3026147	NP_115684	A	E	AE	benign
rs3026204	NP_005078	Q	L	QL	possibly damaging
rs3026263	NP_004417	P	S	PS	possibly damaging
rs3026263	XP_208080	P	S	PS	possibly damaging
rs3026268	NP_002476	T	A	TA	benign
rs3026284	NP_004920	G	D	GD	possibly damaging
rs3026759	NP_065681	E	K	EK	benign
rs3026759	NP_066124	E	K	EK	benign
rs3026760	NP_065681	K	E	KE	benign
rs3026760	NP_066124	K	E	KE	benign
rs3026902	NP_001388	L	Q	LQ	possibly damaging
rs3026906	NP_001388	R	C	RC	possibly damaging
rs3026987	NP_067012	R	W	RW	possibly damaging
rs3027002	NP_067012	G	R	GR	probably damaging
rs3027017	NP_002027	D	V	DV	possibly damaging
rs3027018	NP_002027	M	L	ML	benign
rs3027020	NP_002027	L	Q	LQ	benign
rs3027177	NP_002607	M	T	MT	benign
rs3027180	NP_002607	D	G	DG	possibly damaging
rs3027184	NP_002607	S	F	SF	benign
rs3027189	NP_002607	E	K	EK	benign
rs3027190	NP_002607	S	C	SC	possibly damaging
rs3027193	NP_002607	R	H	RH	benign
rs3027194	NP_002607	R	H	RH	benign
rs3027205	NP_067641	I	V	IV	benign
rs3027206	NP_067641	L	W	LW	possibly damaging
rs3027238	XP_496182	I	V	IV	benign
rs3027254	NP_004208	H	Q	HQ	benign
rs3027470	NP_006512	T	A	TA	benign
rs3027482	NP_004970	L	V	LV	benign
rs3027507	NP_060072	M	R	MR	probably damaging
rs3027508	NP_060072	G	R	GR	probably damaging
rs3027646	NP_000052	T	A	TA	benign
rs3027652	NP_004076	E	D	ED	benign
rs3027721	NP_036603	A	T	AT	benign
rs3027722	NP_036603	Y	F	YF	benign
rs3027818	NP_079086	T	A	TA	benign
rs3027877	NP_005325	T	S	TS	benign
rs3027884	NP_005325	T	A	TA	benign
rs3027956	NP_005619	P	A	PA	possibly damaging
rs3027961	NP_005619	V	L	VL	benign
rs3055727	NP_085143	S	N	SN	benign

rs3087209	NP_000577	L	R	LR	possibly damaging
rs3087335	NP_439892	Y	S	YS	probably damaging
rs3087335	NP_001789	Y	S	YS	probably damaging
rs3087355	NP_005906	E	V	EV	probably damaging
rs3087366	NP_006221	N	S	NS	benign
rs3087373	NP_002684	P	S	PS	possibly damaging
rs3087374	NP_002684	Q	H	QH	benign
rs3087386	NP_057400	F	S	FS	benign
rs3087388	NP_057400	P	T	PT	probably damaging
rs3087392	NP_057400	N	T	NT	benign
rs3087393	NP_057400	N	K	NK	benign
rs3087394	NP_057400	M	V	MV	possibly damaging
rs3087396	NP_057400	S	I	SI	possibly damaging
rs3087398	NP_057400	L	W	LW	possibly damaging
rs3087399	NP_057400	N	S	NS	benign
rs3087400	NP_057400	L	P	LP	possibly damaging
rs3087401	NP_057400	A	T	AT	benign
rs3087403	NP_057400	V	M	VM	benign
rs3087405	NP_055126	C	S	CS	benign
rs3087414	NP_000544	S	L	SL	possibly damaging
rs3087425	NP_000544	R	C	RC	probably damaging
rs3087450	NP_004517	A	T	AT	benign
rs3087452	NP_004517	D	E	DE	benign
rs3087469	NP_002519	R	W	RW	possibly damaging
rs3087615	NP_004270	E	D	ED	benign
rs3087653	NP_003075	E	A	EA	benign
rs3087689	NP_835388	S	P	SP	benign
rs3087689	NP_075384	S	P	SP	benign
rs3087866	NP_060584	Q	R	QR	benign
rs3087878	NP_066565	Q	K	QK	benign
rs3087944	NP_005195	S	F	SF	benign
rs3088074	NP_612114	Q	E	QE	benign
rs3088074	NP_612115	Q	E	QE	benign
rs3088074	NP_000480	Q	E	QE	benign
rs3088113	NP_006816	A	T	AT	benign
rs3088142	NP_057448	Y	C	YC	possibly damaging
rs3088190	NP_066549	L	V	LV	benign
rs3088235	NP_060158	I	T	IT	benign
rs3088241	NP_112597	D	E	DE	benign
rs3091339	NP_059488	K	E	KE	possibly damaging
rs3092831	NP_612149	T	K	TK	possibly damaging
rs3092831	NP_000042	T	K	TK	possibly damaging
rs3092841	NP_000042	E	Q	EQ	benign
rs3092849	NP_612149	L	F	LF	benign
rs3092849	NP_000042	L	F	LF	benign
rs3092856	NP_612149	H	Y	HY	benign

rs3092856	NP_000042	H	Y	HY	benign
rs3092856	NP_612150	H	Y	HY	benign
rs3092857	NP_000042	M	V	MV	benign
rs3092895	NP_000312	L	F	LF	benign
rs3092896	NP_000312	N	S	NS	possibly damaging
rs3092900	NP_000312	N	H	NH	benign
rs3092902	NP_000312	E	D	ED	benign
rs3092903	NP_000312	D	E	DE	possibly damaging
rs3092905	NP_000312	E	G	EG	possibly damaging
rs3092907	NP_612149	V	L	VL	benign
rs3092907	NP_000042	V	L	VL	benign
rs3093104	NP_001073	S	Y	SY	probably damaging
rs3093105	NP_001073	W	G	WG	benign
rs3093153	NP_001073	G	V	GV	probably damaging
rs3093200	NP_001073	L	M	LM	benign
rs3093248	NP_062562	E	K	EK	benign
rs3093248	NP_000122	E	K	EK	benign
rs3093267	NP_062562	A	T	AT	benign
rs3093267	NP_000122	A	T	AT	benign
rs3093370	NP_851565	R	C	RC	benign
rs3093386	NP_851565	G	S	GS	benign
rs3093431	NP_006841	H	R	HR	possibly damaging
rs3093446	NP_006841	V	L	VL	benign
rs3093495	NP_002177	R	K	RK	benign
rs3093495	NP_789743	R	K	RK	benign
rs3093514	NP_002177	Y	C	YC	probably damaging
rs3093514	NP_789743	Y	C	YC	probably damaging
rs3093543	NP_000586	H	P	HP	benign
rs3093554	NP_002332	G	E	GE	benign
rs3093554	NP_033666	G	S	GS	benign
rs3093555	NP_002332	A	P	AP	possibly damaging
rs3093647	NP_055128	A	V	AV	benign
rs3093763	NP_996820	D	H	DH	possibly damaging
rs3093765	NP_996820	P	S	PS	probably damaging
rs3093785	NP_001230	M	V	MV	benign
rs3093905	NP_005475	S	N	SN	benign
rs3093906	NP_005475	N	S	NS	benign
rs3093921	NP_005475	D	G	DG	possibly damaging
rs3093925	NP_005475	I	V	IV	benign
rs3093926	NP_005475	R	Q	RQ	benign
rs3094124	NP_003888	P	A	PA	probably damaging
rs3094258	NP_057302	I	T	IT	possibly damaging
rs3094378	NP_060055	M	T	MT	possibly damaging
rs3094806	XP_496483	D	Y	DY	probably damaging
rs3094807	XP_496483	Q	E	QE	benign
rs3095183	NP_942150	K	N	KN	possibly damaging

rs3095726	NP_689573	V	M	VM	benign
rs3096270	XP_496159	A	V	AV	benign
rs3096380	NP_060818	L	F	LF	possibly damaging
rs3096381	NP_060818	T	K	TK	benign
rs3096696	NP_619731	A	E	AE	benign
rs3096696	NP_620312	A	E	AE	benign
rs3096696	NP_005146	A	E	AE	benign
rs3096697	NP_085155	R	K	RK	benign
rs3097109	NP_066267	F	L	FL	possibly damaging
rs3097111	NP_066267	A	G	AG	benign
rs3097112	NP_066267	P	A	PA	possibly damaging
rs3097113	NP_066267	S	R	SR	benign
rs3097256	NP_776256	V	L	VL	benign
rs3097675	NP_002112	I	T	IT	possibly damaging
rs3097885	NP_002767	R	M	RM	benign
rs3097885	NP_665895	R	M	RM	benign
rs3098019	NP_002107	W	G	WG	probably damaging
rs3098412	NP_908930	C	G	CG	probably damaging
rs3098412	NP_908932	C	G	CG	probably damaging
rs3098412	NP_000025	C	G	CG	probably damaging
rs3098416	NP_908930	A	S	AS	benign
rs3098416	NP_908932	A	S	AS	benign
rs3098416	NP_000025	A	S	AS	benign
rs3098494	XP_372214	D	E	DE	benign
rs3098927	NP_055806	S	F	SF	benign
rs3099209	NP_689747	S	N	SN	benign
rs3099537	NP_084656	P	S	PS	benign
rs3099537	NP_084657	P	S	PS	benign
rs3099537	NP_005261	P	S	PS	benign
rs3099537	NP_084655	P	S	PS	benign
rs3099950	NP_919246	E	K	EK	benign
rs3100096	XP_497871	A	V	AV	benign
rs3100246	NP_078968	R	L	RL	possibly damaging
rs3100898	NP_001654	L	M	LM	benign
rs3100906	NP_004704	C	S	CS	possibly damaging
rs3101873	NP_835260	A	V	AV	benign
rs3101878	NP_835260	Q	K	QK	benign
rs3101960	XP_372092	L	P	LP	possibly damaging
rs3101960	XP_497031	L	P	LP	possibly damaging
rs3101961	XP_372092	R	P	RP	possibly damaging
rs3101961	XP_497031	R	P	RP	probably damaging
rs3103004	NP_003370	R	C	RC	probably damaging
rs3103117	NP_064544	S	Y	SY	possibly damaging
rs3103135	NP_064544	N	H	NH	benign
rs3103691	XP_375688	H	R	HR	benign
rs3103691	XP_290949	H	R	HR	benign

rs3104230	NP_689836	A	S	AS	benign
rs3104233	NP_006135	T	M	TM	benign
rs3104717	NP_057302	R	I	RI	probably damaging
rs3104729	NP_057302	L	F	LF	benign
rs3105367	NP_775758	P	L	PL	probably damaging
rs3105524	XP_496692	A	V	AV	benign
rs3105932	XP_497046	G	E	GE	possibly damaging
rs3106629	XP_372424	T	I	TI	benign
rs3107275	NP_115981	P	L	PL	benign
rs3107306	NP_000039	A	G	AG	benign
rs3108460	NP_835226	I	F	IF	benign
rs3108728	NP_443728	E	K	EK	benign
rs3109083	XP_092267	E	D	ED	benign
rs3109215	NP_115505	R	G	RG	benign
rs3109731	XP_372097	Q	R	QR	benign
rs3109731	XP_372090	Q	R	QR	probably damaging
rs3110234	NP_002301	V	I	VI	benign
rs3111226	XP_496433	R	K	RK	benign
rs3111329	NP_776256	F	L	FL	benign
rs3111367	XP_370968	P	L	PL	possibly damaging
rs3111368	XP_370968	E	K	EK	benign
rs3112374	NP_995327	V	I	VI	benign
rs3112557	NP_908930	D	A	DA	benign
rs3112557	NP_908932	D	A	DA	benign
rs3112557	NP_000025	D	A	DA	benign
rs3112831	NP_000341	H	R	HR	benign
rs3113676	NP_060405	R	C	RC	possibly damaging
rs3113842	NP_064544	Y	H	YH	benign
rs3115462	XP_496483	D	N	DN	benign
rs3115532	XP_496413	A	G	AG	benign
rs3115583	NP_006067	Q	H	QH	benign
rs3116148	NP_112603	K	Q	KQ	benign
rs3116392	NP_036222	T	A	TA	benign
rs3116394	NP_149033	P	S	PS	benign
rs3116448	NP_004818	S	P	SP	possibly damaging
rs3116713	NP_002627	K	R	KR	benign
rs3116713	NP_077084	K	R	KR	benign
rs3116817	XP_498072	G	E	GE	benign
rs3116818	XP_498072	V	F	VF	benign
rs3116819	XP_498072	A	V	AV	benign
rs3116855	NP_112167	H	Y	HY	benign
rs3116856	NP_112167	A	V	AV	benign
rs3118454	NP_057309	G	R	GR	benign
rs3118454	NP_057208	G	R	GR	benign
rs3118635	NP_000746	M	L	ML	benign
rs3118635	NP_003994	M	L	ML	benign

rs3119582	XP_212238	M	T	MT	benign
rs3119601	NP_954586	V	E	VE	benign
rs3119886	XP_372190	I	V	IV	benign
rs3119932	XP_497082	P	S	PS	benign
rs3120081	XP_497242	D	N	DN	benign
rs3120355	XP_495814	S	A	SA	benign
rs3120645	XP_048104	E	Q	EQ	benign
rs3120647	XP_048104	S	F	SF	possibly damaging
rs3120648	XP_048104	T	N	TN	benign
rs3120649	XP_048104	S	L	SL	possibly damaging
rs3120651	XP_048104	N	T	NT	possibly damaging
rs3120652	XP_048104	N	Y	NY	probably damaging
rs3120654	XP_048104	S	Y	SY	probably damaging
rs3120655	XP_048104	T	I	TI	possibly damaging
rs3120779	XP_496433	R	K	RK	benign
rs3121079	XP_291396	W	R	WR	probably damaging
rs3121081	XP_291396	S	A	SA	benign
rs3121399	XP_372763	Y	D	YD	benign
rs3121478	NP_006166	A	T	AT	benign
rs3121478	NP_932326	A	T	AT	benign
rs3121544	XP_378185	R	K	RK	benign
rs3122210	NP_775494	L	S	LS	possibly damaging
rs3122407	NP_694984	R	K	RK	benign
rs3122463	NP_002162	R	K	RK	benign
rs3122712	NP_705834	N	S	NS	benign
rs3122713	NP_705834	D	N	DN	benign
rs3122726	XP_497046	K	R	KR	benign
rs3122788	XP_497048	S	G	SG	benign
rs3122944	NP_055427	G	S	GS	benign
rs3123101	XP_087804	L	Q	LQ	possibly damaging
rs3123331	NP_775931	S	N	SN	benign
rs3124747	XP_376921	K	E	KE	benign
rs3124993	NP_434700	V	L	VL	benign
rs3125001	NP_060087	A	T	AT	benign
rs3125068	XP_291625	A	V	AV	benign
rs3125068	XP_291638	A	V	AV	benign
rs3125075	XP_375688	C	R	CR	benign
rs3125075	XP_290949	R	C	RC	benign
rs3125189	NP_777622	I	S	IS	benign
rs3125240	NP_055627	E	K	EK	benign
rs3125630	NP_003026	A	V	AV	benign
rs3125734	NP_660350	H	R	HR	benign
rs3125818	NP_060908	R	Q	RQ	benign
rs3126065	XP_378901	S	P	SP	possibly damaging
rs3126069	XP_378901	H	R	HR	probably damaging
rs3126072	XP_048104	G	R	GR	possibly damaging



rs3126074	XP_048104	H	Q	HQ	benign
rs3126075	XP_048104	R	T	RT	benign
rs3126076	XP_048104	R	W	RW	benign
rs3126079	XP_048104	H	Q	HQ	possibly damaging
rs3126080	XP_048104	R	H	RH	possibly damaging
rs3126081	XP_048104	T	A	TA	benign
rs3126141	NP_008846	K	R	KR	benign
rs3126397	XP_375931	Q	R	QR	benign
rs3127106	NP_006166	Q	R	QR	benign
rs3127106	NP_932326	Q	R	QR	benign
rs3127158	NP_660346	I	V	IV	benign
rs3127328	NP_003172	G	S	GS	benign
rs3127336	NP_003172	L	V	LV	benign
rs3127728	XP_495814	H	R	HR	benign
rs3127729	XP_495814	D	H	DH	possibly damaging
rs3127735	XP_495814	M	I	MI	benign
rs3127785	NP_852660	E	D	ED	benign
rs3127785	NP_114118	E	D	ED	benign
rs3128222	XP_495840	R	Q	RQ	benign
rs3128222	XP_495842	R	Q	RQ	benign
rs3128853	NP_039224	S	F	SF	probably damaging
rs3129018	NP_002107	T	P	TP	possibly damaging
rs3129019	NP_002107	V	E	VE	benign
rs3129157	NP_112167	A	T	AT	benign
rs3129168	XP_498072	F	V	FV	benign
rs3129941	NP_006772	R	C	RC	possibly damaging
rs3130049	NP_004630	P	H	PH	possibly damaging
rs3130049	NP_542434	P	H	PH	possibly damaging
rs3130062	NP_004998	C	R	CR	benign
rs3130100	NP_005444	A	T	AT	benign
rs3130253	NP_002424	V	I	VI	benign
rs3130253	NP_996533	V	I	VI	benign
rs3130253	NP_996532	V	I	VI	benign
rs3130257	NP_005443	A	T	AT	benign
rs3130618	NP_149417	R	L	RL	possibly damaging
rs3130645	XP_376479	S	P	SP	possibly damaging
rs3130743	NP_112167	A	T	AT	benign
rs3130764	XP_498070	I	V	IV	benign
rs3130765	XP_498070	M	I	MI	benign
rs3131087	XP_498069	L	I	LI	benign
rs3131639	NP_005922	D	N	DN	benign
rs3132055	XP_372953	Y	H	YH	benign
rs3132453	NP_004629	V	L	VL	benign
rs3132453	NP_542417	V	L	VL	benign
rs3132589	XP_376479	E	D	ED	benign
rs3133166	NP_004748	P	A	PA	benign

rs3133338	NP_079082	F	S	FS	probably damaging
rs3134031	NP_714915	V	I	VI	benign
rs3134253	NP_056235	V	I	VI	benign
rs3134579	NP_066267	H	P	HP	benign
rs3134599	NP_958786	V	L	VL	benign
rs3134599	NP_958785	V	L	VL	benign
rs3134599	NP_958784	V	L	VL	benign
rs3134599	NP_958783	V	L	VL	benign
rs3134599	NP_958782	V	L	VL	benign
rs3134599	NP_958781	V	L	VL	benign
rs3134599	NP_958780	V	L	VL	benign
rs3134599	NP_000436	V	L	VL	benign
rs3134600	NP_958786	V	L	VL	benign
rs3134600	NP_958785	V	L	VL	benign
rs3134600	NP_958784	V	L	VL	benign
rs3134600	NP_958783	V	L	VL	benign
rs3134600	NP_958782	V	L	VL	benign
rs3134600	NP_958781	V	L	VL	benign
rs3134600	NP_958780	V	L	VL	benign
rs3134600	NP_000436	V	L	VL	benign
rs3134604	NP_619731	W	C	WC	probably damaging
rs3134604	NP_620312	W	C	WC	probably damaging
rs3134604	NP_005146	W	C	WC	probably damaging
rs3134626	NP_908930	K	N	KN	probably damaging
rs3134626	NP_908932	K	N	KN	probably damaging
rs3134626	NP_000025	K	N	KN	probably damaging
rs3134667	NP_005090	G	S	GS	benign
rs3134675	NP_848701	R	L	RL	benign
rs3134675	NP_002710	R	L	RL	benign
rs3134900	NP_005922	I	M	IM	benign
rs3134958	NP_061978	S	R	SR	benign
rs3134959	NP_061978	P	H	PH	probably damaging
rs3134960	NP_061978	S	R	SR	benign
rs3135108	NP_958786	A	V	AV	benign
rs3135108	NP_958785	A	V	AV	benign
rs3135108	NP_958784	A	V	AV	benign
rs3135108	NP_958783	A	V	AV	benign
rs3135108	NP_958782	A	V	AV	benign
rs3135108	NP_958781	A	V	AV	benign
rs3135108	NP_958780	A	V	AV	benign
rs3135108	NP_000436	A	V	AV	benign
rs3135109	NP_958786	L	V	LV	benign
rs3135109	NP_958785	L	V	LV	benign
rs3135109	NP_958784	L	V	LV	benign
rs3135109	NP_958783	L	V	LV	benign
rs3135109	NP_958782	L	V	LV	benign

rs3135109	NP_958781	L	V	LV	benign
rs3135109	NP_958780	L	V	LV	benign
rs3135109	NP_000436	L	V	LV	benign
rs3135152	XP_377828	H	R	HR	benign
rs3135163	NP_775931	S	N	SN	benign
rs3135506	NP_443200	S	W	SW	possibly damaging
rs3135507	NP_443200	V	M	VM	benign
rs3135533	NP_002906	L	V	LV	benign
rs3135684	NP_002905	A	V	AV	possibly damaging
rs3135684	NP_852136	A	V	AV	possibly damaging
rs3136025	NP_002302	R	H	RH	benign
rs3136025	NP_039269	R	H	RH	benign
rs3136334	NP_000170	P	A	PA	benign
rs3136389	NP_055126	R	W	RW	probably damaging
rs3136422	NP_006541	R	K	RK	benign
rs3136616	NP_751950	A	E	AE	benign
rs3136677	NP_005399	A	S	AS	benign
rs3136797	NP_002681	P	R	PR	possibly damaging
rs3136820	NP_001632	D	E	DE	benign
rs3136820	NP_542379	D	E	DE	benign
rs3136820	NP_542380	D	E	DE	benign
rs3138038	NP_005614	K	Q	KQ	benign
rs3138100	NP_001756	N	T	NT	benign
rs3138105	NP_001756	S	F	SF	possibly damaging
rs3138268	NP_598011	T	M	TM	benign
rs3138268	NP_598012	T	M	TM	benign
rs3138268	NP_598010	T	M	TM	benign
rs3138505	NP_006696	G	S	GS	benign
rs3168277	NP_060863	R	Q	RQ	benign
rs3168486	NP_006422	T	I	TI	benign
rs3168583	NP_066549	R	L	RL	probably damaging
rs3168891	NP_057670	S	R	SR	benign
rs3169422	NP_003924	Q	E	QE	benign
rs3169693	NP_954976	F	L	FL	benign
rs3169983	NP_942130	T	A	TA	benign
rs3169983	NP_002631	T	A	TA	benign
rs3170216	NP_002771	L	V	LV	benign
rs3170216	NP_998798	L	V	LV	benign
rs3170660	NP_060536	G	R	GR	possibly damaging
rs3170843	NP_612426	T	A	TA	benign
rs3170926	NP_006163	L	F	LF	benign
rs3170979	NP_659004	T	N	TN	probably damaging
rs3170987	XP_059132	H	P	HP	benign
rs3171120	NP_055816	V	L	VL	benign
rs3171366	NP_056153	S	F	SF	benign
rs3171367	NP_056153	A	T	AT	benign

rs3171384	NP_115998	E	V	EV	probably damaging
rs3171439	NP_444507	D	G	DG	possibly damaging
rs3172008	NP_659475	S	I	SI	benign
rs3172334	NP_065916	L	I	LI	benign
rs3172477	NP_775463	E	V	EV	possibly damaging
rs3172477	NP_057567	E	V	EV	possibly damaging
rs3172601	NP_982287	D	A	DA	possibly damaging
rs3172603	NP_982287	V	L	VL	benign
rs3172747	NP_005724	P	L	PL	possibly damaging
rs3172770	XP_379323	S	T	ST	benign
rs3172771	XP_379323	T	A	TA	benign
rs3172957	NP_065741	K	Q	KQ	benign
rs3172957	NP_060217	K	Q	KQ	benign
rs3173070	NP_036309	D	V	DV	probably damaging
rs3173126	NP_005882	S	N	SN	benign
rs3173419	NP_002107	D	N	DN	benign
rs3173420	NP_002107	R	Q	RQ	benign
rs3173424	NP_002107	T	S	TS	benign
rs3173426	NP_002107	N	K	NK	benign
rs3173428	NP_002107	G	E	GE	benign
rs3173429	NP_002107	F	L	FL	benign
rs3173431	NP_002107	S	L	SL	benign
rs3173519	NP_003795	V	A	VA	benign
rs3173615	NP_060844	T	S	TS	benign
rs3173635	NP_038467	L	P	LP	possibly damaging
rs3174147	NP_055396	I	V	IV	benign
rs3174148	NP_055396	H	D	HD	possibly damaging
rs3174149	NP_055396	R	T	RT	benign
rs3174150	NP_055396	R	G	RG	possibly damaging
rs3174288	NP_003380	R	G	RG	benign
rs3174288	NP_438171	R	G	RG	benign
rs3174411	NP_038472	S	R	SR	benign
rs3174450	NP_689794	N	K	NK	benign
rs3174500	NP_060946	V	L	VL	benign
rs3174612	NP_000356	A	P	AP	probably damaging
rs3174720	NP_006461	R	W	RW	benign
rs3174959	NP_079305	S	N	SN	benign
rs3175026	NP_056991	T	P	TP	possibly damaging
rs3175105	NP_002116	D	G	DG	benign
rs3175105	NP_002115	C	Y	CY	probably damaging
rs3175191	NP_036390	L	P	LP	benign
rs3175992	NP_005505	Q	L	QL	benign
rs3176162	NP_002684	R	Q	RQ	benign
rs3176311	NP_006275	I	T	IT	benign
rs3176383	NP_002425	K	Q	KQ	benign
rs3176443	NP_066988	L	V	LV	benign

rs3176588	NP_004498	D	E	DE	benign
rs3176749	NP_000371	V	L	VL	benign
rs3176750	NP_000371	L	V	LV	benign
rs3176798	NP_001772	E	K	EK	benign
rs3176930	NP_000914	R	Q	RQ	benign
rs3176931	NP_001127	R	Q	RQ	benign
rs3176932	NP_599150	S	F	SF	benign
rs3176950	NP_002112	R	K	RK	benign
rs3176960	NP_000415	D	E	DE	benign
rs3176968	NP_000143	I	V	IV	benign
rs3176969	NP_001756	I	M	IM	benign
rs3176971	NP_001756	S	T	ST	benign
rs3176972	NP_001756	N	Y	NY	benign
rs3176975	NP_000033	L	V	LV	benign
rs3177012	NP_000257	R	M	RM	benign
rs3177049	NP_003711	L	P	LP	benign
rs3177049	NP_982257	L	P	LP	benign
rs3177051	NP_006383	M	T	MT	benign
rs3177058	NP_057154	M	I	MI	possibly damaging
rs3177061	NP_076949	E	K	EK	benign
rs3177153	NP_620129	Q	R	QR	benign
rs3177157	NP_071739	A	D	AD	possibly damaging
rs3177168	NP_068593	G	R	GR	possibly damaging
rs3177172	NP_848567	G	S	GS	benign
rs3177173	NP_848567	L	P	LP	possibly damaging
rs3177200	NP_073586	V	L	VL	benign
rs3177201	NP_872286	H	N	HN	probably damaging
rs3177201	NP_872282	H	N	HN	probably damaging
rs3177202	NP_073586	G	C	GC	probably damaging
rs3177203	NP_060957	L	F	LF	benign
rs3177253	NP_006108	M	I	MI	possibly damaging
rs3177261	NP_742017	A	G	AG	benign
rs3177310	NP_036275	L	P	LP	possibly damaging
rs3177328	NP_689945	E	K	EK	benign
rs3177338	NP_620124	R	C	RC	probably damaging
rs3177378	NP_116167	P	H	PH	probably damaging
rs3177427	NP_665877	E	K	EK	benign
rs3177427	NP_665878	K	E	KE	benign
rs3177428	NP_061138	F	S	FS	possibly damaging
rs3177429	NP_665878	G	R	GR	benign
rs3177429	NP_665877	G	R	GR	possibly damaging
rs3177459	NP_064446	E	D	ED	benign
rs3177471	NP_891549	P	S	PS	probably damaging
rs3177472	NP_620125	R	H	RH	benign
rs3177483	NP_056268	Q	R	QR	benign
rs3177554	NP_536349	R	W	RW	possibly damaging

rs3177554	NP_004500	R	W	RW	possibly damaging
rs3177562	NP_078907	G	V	GV	probably damaging
rs3177589	NP_002279	S	T	ST	benign
rs3177589	NP_068354	T	S	TS	benign
rs3177634	NP_899056	W	C	WC	benign
rs3177663	NP_114091	I	V	IV	benign
rs3177676	NP_640333	N	S	NS	benign
rs3177734	NP_008886	E	K	EK	benign
rs3177751	NP_001976	T	M	TM	benign
rs3177759	NP_000293	M	I	MI	possibly damaging
rs3177809	NP_003888	A	V	AV	benign
rs3177811	NP_000394	G	A	GA	probably damaging
rs3177818	NP_000615	G	R	GR	probably damaging
rs3177821	NP_004381	H	Y	HY	benign
rs3177821	NP_683880	H	Y	HY	benign
rs3177828	NP_001257	G	A	GA	possibly damaging
rs3177865	NP_778255	E	Q	EQ	benign
rs3177865	NP_002552	E	Q	EQ	benign
rs3177921	NP_005505	A	T	AT	benign
rs3177926	NP_005505	S	N	SN	benign
rs3177945	NP_005505	K	T	KT	benign
rs3177980	NP_000646	F	L	FL	possibly damaging
rs3178000	NP_000346	L	S	LS	possibly damaging
rs3178003	NP_065741	K	I	KI	possibly damaging
rs3178003	NP_060217	K	I	KI	possibly damaging
rs3178010	NP_001563	Q	R	QR	benign
rs3178010	NP_004020	Q	R	QR	benign
rs3178010	NP_004022	R	Q	RQ	benign
rs3178134	NP_055396	M	I	MI	benign
rs3178135	NP_055396	L	R	LR	possibly damaging
rs3178136	NP_055396	H	Y	HY	benign
rs3178137	NP_055396	S	P	SP	possibly damaging
rs3178138	NP_055396	D	N	DN	benign
rs3178140	NP_055396	R	L	RL	benign
rs3178142	NP_055396	P	L	PL	possibly damaging
rs3178142	NP_055397	L	P	LP	probably damaging
rs3178149	NP_115569	L	V	LV	benign
rs3178152	NP_006282	Q	E	QE	benign
rs3178178	NP_060880	E	G	EG	possibly damaging
rs3178204	NP_055914	S	F	SF	benign
rs3178297	NP_005909	K	R	KR	possibly damaging
rs3178611	NP_065199	T	P	TP	benign
rs3178794	NP_079064	T	M	TM	benign
rs3178811	NP_808228	M	L	ML	possibly damaging
rs3178812	NP_808228	M	V	MV	possibly damaging
rs3178817	NP_777280	A	V	AV	benign

rs3178817	NP_008830	A	V	AV	benign
rs3178954	NP_001461	Q	H	QH	benign
rs3178985	NP_066979	Y	C	YC	benign
rs3178988	NP_963965	W	C	WC	probably damaging
rs3178988	NP_963964	W	C	WC	probably damaging
rs3178988	NP_998813	W	C	WC	probably damaging
rs3178989	NP_976219	L	Q	LQ	benign
rs3179003	NP_667341	R	S	RS	benign
rs3179037	NP_002772	T	S	TS	possibly damaging
rs3179039	NP_002775	I	T	IT	benign
rs3179049	NP_002783	A	S	AS	benign
rs3179060	NP_000585	H	N	HN	benign
rs3179143	NP_073152	E	D	ED	benign
rs3179177	NP_002107	T	A	TA	possibly damaging
rs3179180	NP_002107	Q	E	QE	benign
rs3179181	NP_002107	E	D	ED	benign
rs3179182	NP_002107	R	G	RG	benign
rs3179184	NP_002107	G	R	GR	benign
rs3179187	NP_002107	I	M	IM	benign
rs3179188	NP_002107	Y	S	YS	possibly damaging
rs3179191	NP_002107	G	W	GW	benign
rs3179193	NP_689512	K	N	KN	benign
rs3179193	NP_055366	K	N	KN	benign
rs3179194	NP_055366	G	R	GR	benign
rs3179194	NP_689512	G	R	GR	possibly damaging
rs3179195	NP_689512	P	L	PL	probably damaging
rs3179205	NP_072049	L	M	LM	benign
rs3179206	NP_072049	R	P	RP	benign
rs3179207	NP_002107	P	T	PT	benign
rs3179213	NP_072049	K	T	KT	probably damaging
rs3179249	NP_002107	L	P	LP	benign
rs3179278	NP_002107	V	M	VM	benign
rs3179375	NP_002107	V	M	VM	benign
rs3179387	NP_003334	E	V	EV	probably damaging
rs3179473	NP_001447	Q	R	QR	benign
rs3179474	NP_439893	H	Q	HQ	probably damaging
rs3179474	NP_006769	H	Q	HQ	probably damaging
rs3179488	NP_078831	L	V	LV	benign
rs3179488	NP_036294	L	V	LV	benign
rs3179615	NP_001460	E	K	EK	possibly damaging
rs3179725	NP_064611	E	D	ED	benign
rs3179763	NP_000086	R	C	RC	benign
rs3179771	NP_002112	R	Q	RQ	benign
rs3179795	NP_665862	L	M	LM	benign
rs3179814	NP_003949	I	V	IV	benign
rs3179861	NP_004387	S	A	SA	benign

rs3179862	NP_000394	D	Y	DY	probably damaging
rs3179863	NP_000394	N	K	NK	probably damaging
rs3179864	NP_000394	A	V	AV	possibly damaging
rs3179893	NP_000206	H	R	HR	probably damaging
rs3179918	NP_788954	L	M	LM	benign
rs3179969	NP_060888	V	M	VM	benign
rs3179978	NP_002115	K	E	KE	benign
rs3179978	NP_072049	Q	K	QK	benign
rs3179979	NP_072049	A	S	AS	benign
rs3179982	NP_002107	L	F	LF	benign
rs3179993	NP_835361	T	N	TN	possibly damaging
rs3180032	NP_077718	L	P	LP	benign
rs3180048	NP_008850	F	Y	FY	benign
rs3180074	NP_443173	M	L	ML	benign
rs3180081	NP_002761	D	H	DH	benign
rs3180088	NP_056307	A	D	AD	benign
rs3180089	NP_112155	G	E	GE	probably damaging
rs3180098	NP_006846	V	G	VG	possibly damaging
rs3180098	NP_057839	V	G	VG	probably damaging
rs3180160	NP_620591	C	F	CF	probably damaging
rs3180227	NP_008850	G	A	GA	benign
rs3180252	NP_005751	N	S	NS	benign
rs3180267	NP_002107	I	R	IR	benign
rs3180278	NP_002107	I	F	IF	benign
rs3180281	NP_000508	A	G	AG	benign
rs3180281	NP_000549	A	G	AG	benign
rs3180303	NP_055296	A	D	AD	possibly damaging
rs3180304	NP_055296	T	N	TN	benign
rs3180313	NP_061944	E	G	EG	possibly damaging
rs3180332	NP_006742	S	P	SP	benign
rs3180355	NP_006764	L	F	LF	possibly damaging
rs3180357	NP_055397	N	K	NK	benign
rs3180370	NP_057733	I	T	IT	benign
rs3180371	NP_004991	E	G	EG	probably damaging
rs3180379	NP_005505	R	L	RL	benign
rs3180380	NP_005505	G	R	GR	benign
rs3180382	NP_000394	V	L	VL	probably damaging
rs3180384	NP_001089	I	F	IF	possibly damaging
rs3180385	NP_000219	L	Q	LQ	possibly damaging
rs3180386	NP_006812	G	C	GC	benign
rs3180391	XP_039702	M	L	ML	benign
rs3180392	NP_000005	L	Q	LQ	possibly damaging
rs3180401	NP_060238	I	V	IV	benign
rs3180408	NP_059110	T	M	TM	benign
rs3180409	NP_005198	H	Y	HY	probably damaging
rs3180410	NP_005198	N	Y	NY	benign



rs3180422	NP_009115	R	T	RT	benign
rs3180433	NP_938075	V	E	VE	benign
rs3180433	NP_938074	V	E	VE	benign
rs3180433	NP_001527	V	E	VE	benign
rs3180447	NP_872286	D	N	DN	benign
rs3180447	NP_872282	D	N	DN	benign
rs3180473	NP_060310	V	L	VL	benign
rs3180499	NP_071899	E	D	ED	benign
rs3180515	NP_002285	G	A	GA	benign
rs3180515	NP_054701	G	A	GA	possibly damaging
rs3180549	NP_000394	G	A	GA	probably damaging
rs3180568	NP_031393	Q	R	QR	benign
rs3180568	NP_057951	Q	R	QR	benign
rs3180651	NP_002775	N	Y	NY	benign
rs3180752	NP_057118	R	L	RL	probably damaging
rs3180793	NP_072049	R	L	RL	benign
rs3180794	NP_005613	Q	P	QP	probably damaging
rs3180809	NP_073152	V	A	VA	benign
rs3180820	NP_073598	Q	H	QH	possibly damaging
rs3180825	NP_005794	S	N	SN	benign
rs3180833	NP_004858	F	V	FV	probably damaging
rs3180834	NP_004858	R	P	RP	possibly damaging
rs3180843	NP_003280	E	K	EK	benign
rs3180945	NP_872286	A	P	AP	benign
rs3180945	NP_872282	A	P	AP	benign
rs3180947	NP_000628	P	T	PT	benign
rs3180949	NP_000628	A	G	AG	benign
rs3180950	NP_000628	E	G	EG	probably damaging
rs3180961	NP_444505	F	L	FL	possibly damaging
rs3180983	NP_057113	L	F	LF	benign
rs3180993	NP_057113	L	F	LF	benign
rs3180998	NP_055568	Y	H	YH	possibly damaging
rs3181009	NP_945341	D	N	DN	benign
rs3181011	NP_057354	R	G	RG	possibly damaging
rs3181012	NP_057354	P	T	PT	possibly damaging
rs3181179	NP_004338	R	H	RH	benign
rs3181326	NP_004338	V	L	VL	benign
rs3181721	NP_002768	I	V	IV	benign
rs3181894	NP_000749	I	T	IT	benign
rs3182181	NP_002941	D	Y	DY	probably damaging
rs3182257	XP_497119	M	I	MI	benign
rs3182286	NP_001775	G	V	GV	benign
rs3182286	NP_510966	G	V	GV	benign
rs3182535	NP_055704	A	V	AV	benign
rs3182729	NP_036293	P	R	PR	probably damaging
rs3182793	NP_060386	S	F	SF	benign

rs3183927	NP_057565	P	S	PS	benign
rs3184504	NP_005466	W	R	WR	benign
rs3184516	NP_071760	L	H	LH	possibly damaging
rs3184994	NP_653177	P	S	PS	probably damaging
rs3185261	NP_060647	D	N	DN	benign
rs3186507	NP_085911	I	T	IT	possibly damaging
rs3186582	NP_005547	L	Q	LQ	probably damaging
rs3186754	NP_066925	Q	H	QH	benign
rs3186951	XP_496237	Q	E	QE	benign
rs3186954	XP_496237	V	I	VI	benign
rs3187319	NP_000574	A	V	AV	benign
rs3187395	NP_597816	E	K	EK	benign
rs3188055	NP_055752	N	D	ND	benign
rs3188297	NP_001889	K	E	KE	benign
rs3188301	NP_001889	D	E	DE	benign
rs3188305	NP_001889	R	Q	RQ	benign
rs3188310	NP_001889	Q	E	QE	benign
rs3188313	NP_001889	V	F	VF	benign
rs3188319	NP_001889	N	D	ND	benign
rs3188320	NP_001889	R	M	RM	probably damaging
rs3188322	NP_001889	K	N	KN	benign
rs3188420	NP_001974	P	H	PH	probably damaging
rs3188420	NP_973730	P	H	PH	probably damaging
rs3189030	NP_006166	S	L	SL	possibly damaging
rs3189030	NP_932326	S	L	SL	possibly damaging
rs3189320	NP_001173	A	V	AV	possibly damaging
rs3189551	NP_613258	A	T	AT	benign
rs3189551	NP_004884	A	T	AT	benign
rs3189555	NP_613258	D	E	DE	benign
rs3189555	NP_004884	D	E	DE	benign
rs3189623	NP_005753	D	N	DN	benign
rs3189812	NP_002676	R	L	RL	possibly damaging
rs3189829	NP_000292	R	K	RK	probably damaging
rs3190103	NP_056231	I	V	IV	benign
rs3190321	NP_056998	L	V	LV	benign
rs3190568	NP_000884	T	K	TK	possibly damaging
rs3190945	NP_005474	V	A	VA	benign
rs3190975	NP_109592	F	I	FI	benign
rs3190975	NP_002839	F	I	FI	benign
rs3190975	NP_109596	F	I	FI	benign
rs3190975	NP_109595	F	I	FI	possibly damaging
rs3191517	NP_001939	T	P	TP	probably damaging
rs3192023	NP_002238	C	G	CG	probably damaging
rs3192149	NP_008958	Q	K	QK	benign
rs3192151	NP_008958	H	P	HP	benign
rs3192152	NP_008958	I	T	IT	benign

rs3192433	NP_005962	H	P	HP	benign
rs3192433	NP_068710	H	P	HP	probably damaging
rs3192723	NP_061914	V	I	VI	benign
rs3192968	NP_473363	R	K	RK	benign
rs3192968	NP_004278	R	K	RK	benign
rs3193485	NP_006855	F	Y	FY	benign
rs3193487	NP_006855	M	V	MV	benign
rs3194051	NP_002176	I	V	IV	benign
rs3194194	NP_066565	D	A	DA	probably damaging
rs3194211	NP_061931	R	G	RG	possibly damaging
rs3195263	NP_036443	L	Q	LQ	benign
rs3195592	XP_370868	A	T	AT	benign
rs3195676	NP_055139	V	M	VM	benign
rs3195676	NP_976316	V	M	VM	benign
rs3195678	NP_055139	M	T	MT	benign
rs3197074	NP_002225	R	G	RG	probably damaging
rs3197821	NP_060674	K	N	KN	benign
rs3197999	NP_066278	R	C	RC	probably damaging
rs3198522	NP_071760	E	K	EK	benign
rs3198689	NP_003567	P	S	PS	probably damaging
rs3198728	XP_098762	G	A	GA	benign
rs3198831	NP_002773	H	D	HD	possibly damaging
rs3198936	NP_073713	T	S	TS	benign
rs3198936	NP_001320	T	S	TS	possibly damaging
rs3199152	XP_497051	A	T	AT	benign
rs3199156	XP_497051	P	T	PT	possibly damaging
rs3199162	NP_775186	A	V	AV	benign
rs3199162	NP_775187	A	V	AV	benign
rs3199162	NP_004546	A	V	AV	benign
rs3199162	NP_775188	A	V	AV	benign
rs3199363	NP_008836	N	D	ND	benign
rs3199388	NP_006175	R	K	RK	benign
rs3199414	NP_060617	A	T	AT	benign
rs3200107	NP_002107	R	S	RS	benign
rs3200129	NP_002107	G	R	GR	benign
rs3200132	NP_002107	Q	R	QR	benign
rs3200156	NP_002107	D	N	DN	benign
rs3200327	NP_057100	A	V	AV	benign
rs3202399	NP_000541	E	K	EK	possibly damaging
rs3202678	NP_570924	F	L	FL	possibly damaging
rs3202678	NP_002841	F	L	FL	possibly damaging
rs3202678	NP_570923	F	L	FL	probably damaging
rs3202678	NP_570925	F	L	FL	probably damaging
rs3203210	NP_001870	E	Q	EQ	benign
rs3203210	NP_624302	E	Q	EQ	benign
rs3203547	NP_599150	H	P	HP	probably damaging

rs3203575	NP_002166	F	I	FI	probably damaging
rs3203575	NP_067091	F	I	FI	probably damaging
rs3203576	NP_066546	E	Q	EQ	benign
rs3203576	NP_067091	Q	E	QE	benign
rs3203767	NP_001888	A	G	AG	benign
rs3203777	NP_037506	V	I	VI	benign
rs3203835	NP_056324	P	S	PS	benign
rs3203994	NP_008832	L	P	LP	possibly damaging
rs3203995	NP_064506	E	K	EK	benign
rs3204010	NP_055702	E	K	EK	benign
rs3204145	NP_003631	C	S	CS	probably damaging
rs3204398	NP_862820	Q	R	QR	possibly damaging
rs3204398	NP_036513	Q	R	QR	possibly damaging
rs3204504	NP_000468	A	V	AV	benign
rs3204724	NP_085125	T	P	TP	benign
rs3204790	NP_075390	V	G	VG	probably damaging
rs3204849	NP_003956	Y	F	YF	benign
rs3204850	NP_003956	I	V	IV	benign
rs3204853	NP_057097	R	L	RL	benign
rs3204903	NP_877416	P	L	PL	benign
rs3204903	NP_002484	P	L	PL	benign
rs3204947	XP_370939	E	K	EK	benign
rs3204953	NP_002903	V	I	VI	benign
rs3205088	NP_006466	F	I	FI	benign
rs3205255	NP_006786	G	R	GR	probably damaging
rs3205290	NP_056988	V	L	VL	benign
rs3205296	NP_056988	R	G	RG	possibly damaging
rs3205421	NP_064629	S	F	SF	benign
rs3205525	NP_115664	R	H	RH	benign
rs3205529	NP_150644	L	F	LF	possibly damaging
rs3205529	NP_000964	L	F	LF	possibly damaging
rs3205537	XP_041363	A	V	AV	benign
rs3205538	NP_002251	S	F	SF	benign
rs3205538	NP_031359	S	F	SF	benign
rs3205903	NP_112536	T	M	TM	benign
rs3205903	NP_002774	T	M	TM	benign
rs3205951	NP_005956	E	D	ED	benign
rs3205951	NP_444254	E	D	ED	benign
rs3205951	NP_444255	E	D	ED	benign
rs3205951	NP_444256	E	D	ED	benign
rs3205951	NP_444257	E	D	ED	benign
rs3205951	NP_444258	E	D	ED	benign
rs3205951	NP_444253	E	D	ED	benign
rs3206158	NP_660340	T	A	TA	benign
rs3206518	NP_055833	Q	R	QR	benign
rs3206519	NP_055833	N	K	NK	benign

rs3206846	NP_689509	D	G	DG	benign
rs3206852	NP_060264	T	P	TP	benign
rs3206885	NP_699200	S	L	SL	possibly damaging
rs3206887	NP_699200	S	F	SF	possibly damaging
rs3206888	NP_699200	L	F	LF	benign
rs3207090	NP_054772	T	M	TM	benign
rs3207110	NP_982287	H	N	HN	benign
rs3207194	NP_057711	H	Q	HQ	benign
rs3207198	NP_057711	P	L	PL	probably damaging
rs3207199	NP_057711	A	T	AT	benign
rs3207388	NP_002772	M	L	ML	benign
rs3207389	NP_002772	E	K	EK	benign
rs3207390	NP_002772	P	S	PS	benign
rs3207391	NP_002772	S	T	ST	benign
rs3207392	NP_002772	G	R	GR	benign
rs3207393	NP_002772	R	L	RL	benign
rs3207394	NP_002772	I	T	IT	benign
rs3207461	NP_064551	P	H	PH	benign
rs3207640	NP_116559	E	K	EK	benign
rs3207640	NP_002898	E	K	EK	benign
rs3207786	NP_079038	Q	R	QR	possibly damaging
rs3207817	NP_005956	S	P	SP	benign
rs3207817	NP_444254	S	P	SP	benign
rs3207817	NP_444255	S	P	SP	benign
rs3207817	NP_444256	S	P	SP	benign
rs3207817	NP_444257	S	P	SP	benign
rs3207817	NP_444258	S	P	SP	benign
rs3207817	NP_444253	S	P	SP	benign
rs3207898	NP_995317	V	I	VI	benign
rs3207901	NP_995317	V	A	VA	benign
rs3207905	NP_995317	H	R	HR	benign
rs3207962	NP_112536	R	C	RC	probably damaging
rs3207997	NP_938190	M	L	ML	possibly damaging
rs3207997	NP_938192	M	L	ML	possibly damaging
rs3207997	NP_938193	M	L	ML	possibly damaging
rs3207997	NP_938194	M	L	ML	possibly damaging
rs3207997	NP_938201	M	L	ML	possibly damaging
rs3207997	NP_938406	M	L	ML	possibly damaging
rs3208002	NP_002776	I	V	IV	benign
rs3208002	NP_976032	I	V	IV	benign
rs3208003	NP_002776	R	K	RK	benign
rs3208003	NP_976032	R	K	RK	benign
rs3208004	NP_002776	L	I	LI	benign
rs3208004	NP_976032	L	I	LI	benign
rs3208008	NP_057518	Q	H	QH	benign
rs3208008	NP_116575	Q	H	QH	benign

rs3208188	NP_037530	Q	E	QE	benign
rs3208189	NP_037530	F	L	FL	possibly damaging
rs3208192	NP_037530	R	K	RK	benign
rs3208193	NP_037530	K	N	KN	benign
rs3208194	NP_037530	K	R	KR	benign
rs3208195	NP_037530	K	Q	KQ	benign
rs3208196	NP_037530	M	I	MI	benign
rs3208197	NP_037530	N	D	ND	benign
rs3208198	NP_037530	F	L	FL	benign
rs3208199	NP_037530	K	R	KR	benign
rs3208200	NP_037530	S	R	SR	benign
rs3208203	NP_037530	S	T	ST	benign
rs3208206	NP_037530	T	S	TS	benign
rs3208208	NP_037530	K	Q	KQ	benign
rs3208210	NP_037530	Q	E	QE	benign
rs3208212	NP_037530	S	P	SP	possibly damaging
rs3208319	NP_054733	L	M	LM	benign
rs3208329	NP_998839	R	Q	RQ	benign
rs3208363	NP_059488	S	A	SA	benign
rs3208371	NP_115850	V	L	VL	benign
rs3208539	NP_000347	A	T	AT	benign
rs3208599	NP_000250	T	A	TA	possibly damaging
rs3208659	NP_001247	N	H	NH	benign
rs3208794	NP_037366	A	D	AD	benign
rs3208856	NP_036248	Y	H	YH	benign
rs3208983	NP_434698	E	K	EK	benign
rs3208983	NP_005789	E	K	EK	benign
rs3208983	NP_998755	E	K	EK	benign
rs3209055	NP_660340	T	I	TI	benign
rs3209058	NP_660340	N	H	NH	benign
rs3209081	NP_005328	P	H	PH	probably damaging
rs3209183	XP_371402	Q	K	QK	benign
rs3209255	NP_001855	Q	L	QL	possibly damaging
rs3209257	NP_001855	L	V	LV	benign
rs3209289	NP_057400	E	K	EK	benign
rs3209388	NP_001001	E	G	EG	probably damaging
rs3209404	NP_057229	P	A	PA	probably damaging
rs3209445	NP_000984	D	G	DG	benign
rs3209486	NP_056955	E	K	EK	benign
rs3209604	NP_001006	H	Q	HQ	probably damaging
rs3209642	NP_057733	I	T	IT	benign
rs3209829	NP_981944	S	F	SF	benign
rs3209829	NP_981946	S	F	SF	benign
rs3209829	NP_005554	S	F	SF	benign
rs3209855	NP_219483	W	R	WR	probably damaging
rs3209908	NP_055423	P	A	PA	possibly damaging

rs3210073	NP_004993	V	D	VD	possibly damaging
rs3210074	NP_004993	P	S	PS	probably damaging
rs3210075	NP_004993	I	T	IT	benign
rs3210076	NP_004993	K	T	KT	possibly damaging
rs3210077	NP_004993	K	N	KN	possibly damaging
rs3210078	NP_004993	P	S	PS	possibly damaging
rs3210080	NP_004993	G	S	GS	possibly damaging
rs3210084	NP_004993	P	L	PL	probably damaging
rs3210107	NP_000005	L	Q	LQ	possibly damaging
rs3210154	NP_000468	A	T	AT	benign
rs3210155	NP_004231	K	R	KR	benign
rs3210158	NP_066299	E	K	EK	possibly damaging
rs3210158	NP_524148	E	K	EK	possibly damaging
rs3210158	NP_524147	E	K	EK	possibly damaging
rs3210163	NP_000468	Q	L	QL	probably damaging
rs3210165	NP_787059	G	V	GV	probably damaging
rs3210165	NP_065783	G	V	GV	probably damaging
rs3210165	NP_059989	G	V	GV	probably damaging
rs3210169	NP_000909	T	R	TR	probably damaging
rs3210199	NP_060732	E	K	EK	benign
rs3210199	NP_443711	E	K	EK	benign
rs3210199	NP_443716	E	K	EK	benign
rs3210199	NP_443715	E	K	EK	benign
rs3210200	NP_060732	N	D	ND	benign
rs3210200	NP_443711	N	D	ND	benign
rs3210200	NP_443716	N	D	ND	benign
rs3210200	NP_443715	N	D	ND	benign
rs3210210	NP_000468	L	R	LR	possibly damaging
rs3210214	NP_031372	L	P	LP	benign
rs3210215	NP_031372	G	C	GC	benign
rs3210216	NP_031372	G	S	GS	benign
rs3210291	NP_001890	D	N	DN	benign
rs3210291	NP_001889	N	D	ND	possibly damaging
rs3210299	NP_036272	L	R	LR	benign
rs3210400	NP_057594	T	A	TA	benign
rs3210501	NP_055613	F	S	FS	benign
rs3210501	XP_496237	S	F	SF	possibly damaging
rs3210502	NP_055613	E	K	EK	benign
rs3210583	NP_064530	G	D	GD	probably damaging
rs3210584	NP_064530	N	D	ND	possibly damaging
rs3210653	NP_060544	M	L	ML	possibly damaging
rs3210720	NP_619580	R	P	RP	possibly damaging
rs3210732	NP_060647	H	N	HN	probably damaging
rs3210813	XP_496238	A	V	AV	benign
rs3210849	NP_057682	H	Q	HQ	possibly damaging
rs3210905	NP_056093	D	Y	DY	possibly damaging

rs3210908	NP_068577	R	Q	RQ	benign
rs3210928	NP_061327	A	G	AG	benign
rs3210928	NP_872289	A	G	AG	benign
rs3210928	NP_057227	A	G	AG	benign
rs3210961	NP_955474	Q	H	QH	benign
rs3210961	NP_955476	Q	H	QH	benign
rs3210961	NP_009194	Q	H	QH	possibly damaging
rs3210978	NP_647475	F	I	FI	benign
rs3210979	NP_647475	F	S	FS	benign
rs3210981	NP_647475	E	D	ED	benign
rs3210982	NP_647475	A	S	AS	benign
rs3210983	NP_647475	A	V	AV	benign
rs3210984	NP_647475	S	T	ST	benign
rs3211042	NP_056111	I	T	IT	possibly damaging
rs3211095	NP_060493	Q	H	QH	possibly damaging
rs3211135	NP_059429	E	D	ED	benign
rs3211135	NP_036560	E	D	ED	benign
rs3211227	NP_003301	P	L	PL	probably damaging
rs3211263	NP_068592	S	R	SR	benign
rs3211277	NP_037399	L	F	LF	benign
rs3211366	NP_000758	H	R	HR	benign
rs3211367	NP_000758	T	N	TN	possibly damaging
rs3211369	NP_000758	M	V	MV	benign
rs3211371	NP_000758	R	C	RC	benign
rs3211612	NP_000066	R	Q	RQ	possibly damaging
rs3211772	NP_000495	A	T	AT	benign
rs3211783	NP_000495	G	R	GR	benign
rs3211977	NP_002519	S	L	SL	possibly damaging
rs3212057	NP_005423	R	H	RH	benign
rs3212151	NP_116764	S	A	SA	benign
rs3212285	NP_004644	T	S	TS	benign
rs3212291	NP_004645	S	C	SC	benign
rs3212292	NP_004645	L	H	LH	possibly damaging
rs3212293	NP_872600	E	D	ED	benign
rs3212293	NP_872601	E	D	ED	benign
rs3212293	NP_009056	E	D	ED	benign
rs3212365	NP_002377	V	L	VL	benign
rs3212366	NP_002377	F	L	FL	possibly damaging
rs3212557	NP_002194	N	K	NK	benign
rs3212645	NP_002194	K	Q	KQ	benign
rs3212723	NP_000206	P	T	PT	possibly damaging
rs3212805	NP_612630	P	L	PL	benign
rs3212805	NP_059979	P	L	PL	benign
rs3212977	NP_001974	A	T	AT	benign
rs3212977	NP_973730	A	T	AT	benign
rs3212989	NP_036231	T	A	TA	benign



rs3213096	NP_002178	V	I	VI	benign
rs3213119	NP_002178	V	F	VF	possibly damaging
rs3213172	NP_005216	R	H	RH	possibly damaging
rs3213173	NP_005216	V	M	VM	benign
rs3213174	NP_005216	T	N	TN	benign
rs3213176	NP_005216	G	S	GS	possibly damaging
rs3213190	NP_002499	R	Q	RQ	benign
rs3213409	NP_000206	V	I	VI	benign
rs3213422	NP_001352	K	Q	KQ	benign
rs3213439	NP_001657	R	Q	RQ	benign
rs3213445	NP_689453	I	V	IV	benign
rs3213445	NP_689452	I	V	IV	benign
rs3213502	NP_005298	A	T	AT	benign
rs3213502	NP_892027	A	T	AT	benign
rs3213511	NP_071895	R	W	RW	probably damaging
rs3213542	NP_006819	V	M	VM	benign
rs3213549	NP_055324	E	K	EK	benign
rs3213606	NP_004306	I	V	IV	benign
rs3213608	NP_068775	V	I	VI	benign
rs3213608	NP_786944	V	I	VI	benign
rs3213633	NP_061331	K	Q	KQ	benign
rs3213641	NP_071433	V	M	VM	benign
rs3213642	NP_620166	R	C	RC	possibly damaging
rs3213688	XP_375408	V	M	VM	benign
rs3213690	NP_057711	D	N	DN	benign
rs3213746	NP_005751	P	S	PS	possibly damaging
rs3213758	XP_051197	D	N	DN	benign
rs3213760	NP_004516	R	H	RH	benign
rs3213764	NP_060649	K	R	KR	benign
rs3213770	NP_001337	R	W	RW	possibly damaging
rs3213790	NP_038478	L	S	LS	possibly damaging
rs3213826	NP_114109	G	V	GV	benign
rs3213831	NP_002855	S	N	SN	possibly damaging
rs3213832	NP_002855	V	M	VM	benign
rs3213837	NP_061165	S	L	SL	possibly damaging
rs3213869	NP_004726	Q	R	QR	benign
rs3213906	NP_001320	I	V	IV	benign
rs3213906	NP_073713	I	V	IV	benign
rs3213941	NP_060350	Q	P	QP	benign
rs3213971	NP_079107	I	V	IV	benign
rs3213979	XP_295213	P	S	PS	probably damaging
rs3213980	XP_295213	R	H	RH	possibly damaging
rs3213981	XP_295213	P	S	PS	probably damaging
rs3213982	XP_295213	F	S	FS	possibly damaging
rs3214033	NP_005984	S	N	SN	benign
rs3214045	XP_496694	I	L	IL	benign

rs3217921	NP_001750	G	R	GR	benign
rs3218089	NP_001751	P	S	PS	probably damaging
rs3218170	NP_004082	G	R	GR	benign
rs3218171	NP_004082	Q	H	QH	benign
rs3218273	NP_000869	S	F	SF	benign
rs3218536	NP_005422	R	H	RH	benign
rs3218537	NP_005422	I	T	IT	benign
rs3218569	NP_068739	P	L	PL	benign
rs3218570	NP_068739	R	T	RT	benign
rs3218572	NP_002903	Q	P	QP	benign
rs3218578	NP_002903	T	P	TP	benign
rs3218579	NP_002903	Q	P	QP	benign
rs3218582	NP_002903	S	L	SL	benign
rs3218585	NP_002903	D	N	DN	benign
rs3218592	NP_002903	R	Q	RQ	benign
rs3218593	NP_002903	M	T	MT	benign
rs3218595	NP_002903	Q	H	QH	benign
rs3218597	NP_002903	S	T	ST	benign
rs3218598	NP_002903	S	G	SG	benign
rs3218599	NP_002903	D	H	DH	benign
rs3218600	NP_002903	S	L	SL	benign
rs3218604	NP_002903	G	R	GR	possibly damaging
rs3218606	NP_002903	R	H	RH	benign
rs3218611	NP_690610	T	I	TI	benign
rs3218611	NP_000034	T	I	TI	benign
rs3218614	NP_690610	T	I	TI	benign
rs3218614	NP_690611	T	I	TI	benign
rs3218614	NP_000034	T	I	TI	benign
rs3218619	NP_690610	A	T	AT	benign
rs3218619	NP_690611	A	T	AT	benign
rs3218619	NP_690612	A	T	AT	benign
rs3218619	NP_690613	A	T	AT	benign
rs3218619	NP_690614	A	T	AT	benign
rs3218619	NP_690615	A	T	AT	benign
rs3218619	NP_690616	A	T	AT	benign
rs3218619	NP_000034	A	T	AT	benign
rs3218622	NP_000954	R	H	RH	benign
rs3218625	NP_000954	G	R	GR	benign
rs3218631	NP_006587	I	V	IV	benign
rs3218631	NP_955452	I	V	IV	benign
rs3218632	NP_006587	T	A	TA	benign
rs3218632	NP_955452	T	A	TA	benign
rs3218633	NP_006587	E	A	EA	benign
rs3218633	NP_955452	E	A	EA	possibly damaging
rs3218634	NP_006587	L	V	LV	benign
rs3218634	NP_955452	L	V	LV	benign

rs3218635	NP_006587	E	K	EK	benign
rs3218635	NP_955452	E	K	EK	benign
rs3218636	NP_006587	S	G	SG	benign
rs3218636	NP_955452	S	G	SG	benign
rs3218637	NP_006587	R	Q	RQ	benign
rs3218637	NP_955452	R	Q	RQ	benign
rs3218639	NP_006587	Q	H	QH	benign
rs3218639	NP_955452	Q	H	QH	possibly damaging
rs3218640	NP_006587	G	E	GE	possibly damaging
rs3218640	NP_955452	G	E	GE	probably damaging
rs3218642	NP_006587	P	T	PT	possibly damaging
rs3218642	NP_955452	P	T	PT	possibly damaging
rs3218643	NP_006587	D	Y	DY	probably damaging
rs3218643	NP_955452	D	Y	DY	probably damaging
rs3218644	NP_006587	D	G	DG	benign
rs3218644	NP_955452	D	G	DG	benign
rs3218648	NP_006587	V	I	VI	benign
rs3218648	NP_955452	V	I	VI	benign
rs3218649	NP_006587	T	R	TR	benign
rs3218649	NP_955452	T	R	TR	possibly damaging
rs3218651	NP_006587	H	R	HR	possibly damaging
rs3218651	NP_955452	H	R	HR	possibly damaging
rs3218652	NP_006587	H	Q	HQ	benign
rs3218652	NP_955452	H	Q	HQ	benign
rs3218670	NP_000042	R	Q	RQ	benign
rs3218670	NP_612149	R	Q	RQ	possibly damaging
rs3218673	NP_000042	P	S	PS	benign
rs3218680	NP_612149	G	S	GS	possibly damaging
rs3218680	NP_000042	G	S	GS	possibly damaging
rs3218684	NP_000042	R	W	RW	probably damaging
rs3218688	NP_000042	L	F	LF	benign
rs3218695	NP_000042	D	E	DE	benign
rs3218707	NP_000042	V	L	VL	benign
rs3218708	NP_000042	T	M	TM	benign
rs3218713	NP_000248	R	Q	RQ	probably damaging
rs3218714	NP_000248	R	W	RW	probably damaging
rs3218715	NP_000248	E	K	EK	benign
rs3218716	NP_000248	A	T	AT	benign
rs3218721	NP_112190	A	V	AV	benign
rs3218725	NP_112190	A	V	AV	benign
rs3218727	NP_112190	R	C	RC	probably damaging
rs3218729	NP_112190	E	A	EA	possibly damaging
rs3218744	NP_055136	R	W	RW	possibly damaging
rs3218745	NP_055136	P	Q	PQ	probably damaging
rs3218750	NP_002682	R	H	RH	possibly damaging
rs3218772	NP_002682	W	R	WR	benign

rs3218775	NP_002682	R	H	RH	benign
rs3218778	NP_009126	R	G	RG	possibly damaging
rs3218783	NP_009126	E	K	EK	benign
rs3218784	NP_009126	I	M	IM	benign
rs3218786	NP_009126	F	S	FS	possibly damaging
rs3218787	NP_009126	C	R	CR	probably damaging
rs3218820	XP_378195	R	Q	RQ	possibly damaging
rs3218976	NP_775465	E	K	EK	benign
rs3219012	NP_058212	A	V	AV	benign
rs3219012	NP_058213	A	V	AV	benign
rs3219012	NP_058214	A	V	AV	benign
rs3219012	NP_058437	A	V	AV	benign
rs3219012	NP_058438	A	V	AV	benign
rs3219012	NP_002533	A	V	AV	benign
rs3219013	NP_058213	Y	H	YH	benign
rs3219014	NP_002533	D	N	DN	possibly damaging
rs3219057	NP_001609	V	I	VI	benign
rs3219062	NP_001609	S	Y	SY	possibly damaging
rs3219145	NP_001609	R	K	RK	benign
rs3219154	NP_065970	I	V	IV	benign
rs3219155	NP_065970	E	K	EK	benign
rs3219156	NP_065970	V	M	VM	benign
rs3219457	NP_002682	R	Q	RQ	benign
rs3219484	NP_036354	V	M	VM	benign
rs3219489	NP_036354	Q	H	QH	benign
rs3219494	NP_036354	G	E	GE	possibly damaging
rs3219496	NP_036354	L	M	LM	benign
rs3219497	NP_036354	R	Q	RQ	benign
rs3729696	NP_006210	D	A	DA	probably damaging
rs3729712	NP_000354	R	C	RC	probably damaging
rs3729717	NP_695024	R	Q	RQ	benign
rs3729717	NP_000616	R	Q	RQ	benign
rs3729730	NP_000898	S	N	SN	benign
rs3729730	NP_003986	S	N	SN	benign
rs3729731	NP_000898	S	I	SI	benign
rs3729731	NP_003986	S	I	SI	benign
rs3729734	NP_002301	H	Y	HY	benign
rs3729740	NP_002301	D	N	DN	benign
rs3729744	NP_002301	S	L	SL	possibly damaging
rs3729754	NP_004378	P	L	PL	probably damaging
rs3729778	NP_006210	V	G	VG	probably damaging
rs3729781	NP_006210	S	N	SN	benign
rs3729782	NP_006210	E	K	EK	benign
rs3729799	NP_000247	R	W	RW	probably damaging
rs3729813	NP_000248	K	N	KN	probably damaging
rs3729823	NP_000248	S	C	SC	benign

rs3729856	NP_002043	S	G	SG	benign
rs3729873	NP_002727	D	H	DH	probably damaging
rs3729881	NP_002727	E	D	ED	benign
rs3729895	NP_002729	S	I	SI	benign
rs3729895	NP_997700	S	I	SI	possibly damaging
rs3729929	NP_002871	E	Q	EQ	possibly damaging
rs3729933	NP_116784	A	S	AS	benign
rs3729938	NP_004378	S	C	SC	probably damaging
rs3729943	NP_000015	S	C	SC	benign
rs3729946	NP_000247	T	K	TK	benign
rs3729950	NP_000247	L	M	LM	benign
rs3729952	NP_000247	A	V	AV	benign
rs3729960	NP_002175	G	R	GR	benign
rs3729960	NP_786943	G	R	GR	possibly damaging
rs3729961	NP_002175	L	V	LV	benign
rs3729977	NP_000677	Y	H	YH	benign
rs3729979	NP_000677	P	L	PL	possibly damaging
rs3729986	NP_000247	V	M	VM	benign
rs3729989	NP_000247	S	G	SG	benign
rs3729993	NP_000248	D	A	DA	probably damaging
rs3730017	NP_695024	R	W	RW	benign
rs3730017	NP_000616	R	W	RW	benign
rs3730025	NP_000780	Y	C	YC	probably damaging
rs3730027	NP_000780	P	L	PL	probably damaging
rs3730043	NP_690044	T	M	TM	possibly damaging
rs3730043	NP_000780	T	M	TM	possibly damaging
rs3730043	NP_690043	T	M	TM	possibly damaging
rs3730071	NP_066193	A	S	AS	benign
rs3730071	NP_056085	A	S	AS	benign
rs3730089	NP_852556	M	I	MI	benign
rs3730089	NP_852665	M	I	MI	benign
rs3730089	NP_852664	M	I	MI	possibly damaging
rs3730091	NP_852556	D	A	DA	possibly damaging
rs3730091	NP_852665	D	A	DA	possibly damaging
rs3730091	NP_852664	D	A	DA	probably damaging
rs3730195	NP_000609	G	E	GE	benign
rs3730230	NP_695024	D	H	DH	benign
rs3730230	NP_000616	D	H	DH	benign
rs3730238	NP_000355	K	R	KR	benign
rs3730247	NP_150645	K	R	KR	benign
rs3730247	NP_150647	K	R	KR	benign
rs3730247	NP_000671	K	R	KR	benign
rs3730271	NP_002871	S	P	SP	benign
rs3730273	NP_002871	M	V	MV	probably damaging
rs3730287	NP_150645	G	R	GR	benign
rs3730287	NP_000671	G	R	GR	benign

rs3730287	NP_150647	G	R	GR	possibly damaging
rs3730293	NP_002175	I	T	IT	benign
rs3730294	NP_002175	Y	F	YF	benign
rs3730307	NP_066193	G	S	GS	benign
rs3730307	NP_056085	G	S	GS	benign
rs3730386	NP_002723	H	D	HD	probably damaging
rs3730458	NP_056263	D	A	DA	probably damaging
rs3730463	NP_037406	T	P	TP	benign
rs3730477	NP_037406	R	W	RW	possibly damaging
rs3730823	NP_009126	H	R	HR	possibly damaging
rs3730855	NP_000225	A	V	AV	benign
rs3730863	NP_000225	R	W	RW	benign
rs3730911	NP_000225	G	E	GE	benign
rs3730933	NP_000225	N	S	NS	possibly damaging
rs3730947	NP_000225	V	M	VM	benign
rs3730966	NP_000225	V	I	VI	benign
rs3730980	NP_000225	M	V	MV	benign
rs3731003	NP_000225	T	I	TI	possibly damaging
rs3731008	NP_000225	R	L	RL	possibly damaging
rs3731190	NP_478102	P	S	PS	possibly damaging
rs3731249	NP_000068	A	T	AT	benign
rs3731410	NP_001265	R	Q	RQ	possibly damaging
rs3731499	NP_963861	S	F	SF	benign
rs3731499	NP_001780	S	F	SF	possibly damaging
rs3731594	NP_005535	D	N	DN	benign
rs3731600	NP_002971	A	P	AP	benign
rs3731620	NP_079479	T	M	TM	benign
rs3731625	NP_062541	I	T	IT	probably damaging
rs3731625	NP_006268	I	T	IT	probably damaging
rs3731644	NP_055336	M	T	MT	benign
rs3731646	NP_055336	A	T	AT	benign
rs3731722	NP_001150	H	R	HR	benign
rs3731762	NP_008853	D	N	DN	benign
rs3731764	NP_079245	T	M	TM	benign
rs3731824	NP_003887	H	R	HR	possibly damaging
rs3731844	XP_165448	E	K	EK	possibly damaging
rs3731845	XP_165448	S	R	SR	possibly damaging
rs3731847	NP_071769	W	R	WR	possibly damaging
rs3731875	NP_055455	L	P	LP	benign
rs3731877	NP_055455	E	Q	EQ	benign
rs3731880	XP_050846	R	C	RC	benign
rs3731891	NP_079295	R	C	RC	probably damaging
rs3731892	NP_079295	K	R	KR	benign
rs3731893	NP_079295	T	M	TM	benign
rs3731894	NP_079295	R	W	RW	possibly damaging
rs3731900	NP_077269	Q	P	QP	possibly damaging

rs3731958	NP_078935	M	I	MI	benign
rs3731969	NP_006785	L	V	LV	benign
rs3731971	NP_665862	W	C	WC	probably damaging
rs3732083	NP_005270	I	V	IV	benign
rs3732204	NP_060439	E	G	EG	possibly damaging
rs3732215	NP_060880	C	S	CS	probably damaging
rs3732235	NP_055312	N	S	NS	benign
rs3732240	NP_005782	L	M	LM	benign
rs3732287	NP_038478	P	L	PL	probably damaging
rs3732299	NP_000180	Q	H	QH	benign
rs3732305	NP_060621	R	G	RG	benign
rs3732309	NP_004534	G	E	GE	benign
rs3732378	NP_001328	T	M	TM	benign
rs3732379	NP_001328	V	I	VI	benign
rs3732380	NP_001328	V	I	VI	benign
rs3732383	NP_919269	G	R	GR	benign
rs3732401	NP_005504	P	S	PS	possibly damaging
rs3732407	NP_004478	T	S	TS	benign
rs3732410	NP_004478	Y	C	YC	probably damaging
rs3732413	XP_291085	G	S	GS	benign
rs3732452	NP_079003	A	E	AE	benign
rs3732466	NP_004479	G	R	GR	benign
rs3732477	XP_209550	A	T	AT	benign
rs3732485	NP_444254	R	C	RC	possibly damaging
rs3732485	NP_444255	R	C	RC	possibly damaging
rs3732485	NP_444256	R	C	RC	possibly damaging
rs3732485	NP_444257	R	C	RC	possibly damaging
rs3732485	NP_444253	R	C	RC	possibly damaging
rs3732486	NP_444254	L	P	LP	benign
rs3732486	NP_444255	L	P	LP	benign
rs3732486	NP_444256	L	P	LP	benign
rs3732486	NP_444257	L	P	LP	benign
rs3732486	NP_444253	L	P	LP	benign
rs3732487	NP_444254	D	E	DE	benign
rs3732487	NP_444255	D	E	DE	benign
rs3732487	NP_444256	D	E	DE	benign
rs3732487	NP_444257	D	E	DE	benign
rs3732487	NP_444253	D	E	DE	benign
rs3732498	NP_078904	R	W	RW	probably damaging
rs3732507	NP_062455	K	R	KR	benign
rs3732530	NP_006565	V	G	VG	benign
rs3732559	XP_209569	E	A	EA	possibly damaging
rs3732576	NP_004712	R	H	RH	benign
rs3732581	NP_061092	V	L	VL	benign
rs3732602	NP_055893	F	S	FS	benign
rs3732671	NP_079199	I	V	IV	benign

rs3732675	XP_371617	S	P	SP	probably damaging
rs3732678	XP_371617	H	P	HP	possibly damaging
rs3732710	NP_937795	T	M	TM	benign
rs3732756	NP_037440	V	I	VI	benign
rs3732765	NP_443728	R	Q	RQ	benign
rs3732775	NP_849144	R	W	RW	possibly damaging
rs3732782	NP_009067	D	A	DA	possibly damaging
rs3732791	NP_387508	R	C	RC	possibly damaging
rs3732795	NP_060169	I	N	IN	possibly damaging
rs3732813	NP_056227	T	A	TA	benign
rs3732858	XP_046264	G	S	GS	benign
rs3732867	XP_172341	A	T	AT	benign
rs3732880	NP_000046	P	S	PS	probably damaging
rs3732978	NP_055665	V	M	VM	benign
rs3733008	NP_000403	D	G	DG	possibly damaging
rs3733011	NP_000403	I	T	IT	benign
rs3733055	NP_004615	R	L	RL	probably damaging
rs3733082	NP_075050	T	I	TI	benign
rs3733085	NP_001398	A	P	AP	benign
rs3733088	NP_001398	K	E	KE	benign
rs3733092	NP_878906	G	A	GA	benign
rs3733092	NP_071737	G	A	GA	possibly damaging
rs3733092	NP_878905	G	A	GA	possibly damaging
rs3733100	NP_078789	A	G	AG	benign
rs3733113	NP_055055	G	R	GR	benign
rs3733124	NP_000324	I	V	IV	benign
rs3733136	NP_002438	G	S	GS	benign
rs3733139	NP_002198	G	S	GS	benign
rs3733167	NP_001239	L	F	LF	benign
rs3733182	NP_060871	R	G	RG	benign
rs3733197	NP_060405	A	T	AT	benign
rs3733242	NP_065910	L	P	LP	possibly damaging
rs3733245	NP_065910	R	W	RW	probably damaging
rs3733306	NP_115689	A	S	AS	benign
rs3733307	NP_115689	T	S	TS	benign
rs3733319	NP_689991	A	V	AV	benign
rs3733378	NP_005926	P	A	PA	possibly damaging
rs3733391	NP_079102	W	R	WR	benign
rs3733402	NP_000883	N	S	NS	possibly damaging
rs3733526	NP_237223	V	A	VA	benign
rs3733526	NP_246273	V	A	VA	benign
rs3733538	NP_061859	R	Q	RQ	benign
rs3733549	NP_001192	R	Q	RQ	benign
rs3733591	NP_064425	R	H	RH	possibly damaging
rs3733591	NP_001001290	R	H	RH	possibly damaging
rs3733641	XP_106386	G	S	GS	possibly damaging



rs3733662	XP_371776	P	T	PT	benign
rs3733693	NP_061993	I	T	IT	benign
rs3733694	NP_061993	K	E	KE	possibly damaging
rs3733697	NP_061761	P	L	PL	possibly damaging
rs3733698	NP_061761	P	S	PS	benign
rs3733699	NP_061760	R	S	RS	benign
rs3733705	NP_114062	R	S	RS	benign
rs3733705	NP_061734	R	S	RS	benign
rs3733706	NP_114062	N	T	NT	probably damaging
rs3733706	NP_061734	N	T	NT	probably damaging
rs3733708	NP_113685	I	V	IV	benign
rs3733708	NP_061729	I	V	IV	benign
rs3733709	NP_113685	I	T	IT	benign
rs3733709	NP_061729	I	T	IT	benign
rs3733711	NP_113599	S	N	SN	benign
rs3733711	NP_113598	S	N	SN	possibly damaging
rs3733711	NP_061723	S	N	SN	possibly damaging
rs3733712	NP_113598	N	H	NH	possibly damaging
rs3733712	NP_113599	N	H	NH	possibly damaging
rs3733712	NP_061723	N	H	NH	possibly damaging
rs3733722	NP_057442	E	K	EK	benign
rs3733782	NP_076996	L	F	LF	benign
rs3733789	NP_003624	V	M	VM	benign
rs3733793	NP_055701	R	C	RC	benign
rs3733801	NP_001334	S	N	SN	benign
rs3733808	NP_057264	V	L	VL	benign
rs3733875	NP_758859	V	L	VL	benign
rs3733875	NP_071900	V	L	VL	benign
rs3733876	NP_057374	P	L	PL	probably damaging
rs3733890	NP_001704	Q	R	QR	benign
rs3733899	XP_376420	T	I	TI	possibly damaging
rs3733905	NP_071745	P	L	PL	probably damaging
rs3733920	NP_005573	S	R	SR	benign
rs3733923	NP_057305	S	N	SN	benign
rs3734016	NP_057526	E	K	EK	benign
rs3734053	NP_001438	A	T	AT	benign
rs3734054	NP_001438	R	K	RK	benign
rs3734055	NP_001438	G	S	GS	benign
rs3734056	NP_001438	R	Q	RQ	benign
rs3734061	NP_001438	P	S	PS	possibly damaging
rs3734091	NP_072044	A	S	AS	benign
rs3734091	NP_003392	A	S	AS	benign
rs3734091	NP_071801	A	S	AS	benign
rs3734094	NP_004376	V	L	VL	benign
rs3734110	NP_001360	I	V	IV	benign
rs3734114	NP_113670	S	P	SP	benign

rs3734116	NP_005724	E	K	EK	benign
rs3734166	NP_001781	C	R	CR	benign
rs3734173	NP_115553	R	C	RC	probably damaging
rs3734265	NP_060224	K	E	KE	benign
rs3734292	NP_002281	V	I	VI	benign
rs3734303	NP_055135	R	Q	RQ	benign
rs3734305	XP_496826	V	M	VM	benign
rs3734311	NP_001554	H	D	HD	benign
rs3734312	NP_001554	K	R	KR	benign
rs3734313	NP_001554	R	H	RH	possibly damaging
rs3734334	NP_065990	N	S	NS	benign
rs3734354	NP_005059	P	T	PT	possibly damaging
rs3734355	NP_005059	A	V	AV	benign
rs3734401	NP_006394	T	M	TM	benign
rs3734539	NP_008980	R	C	RC	benign
rs3734539	NP_510961	R	C	RC	benign
rs3734542	NP_008980	R	Q	RQ	benign
rs3734543	NP_008980	G	A	GA	benign
rs3734553	NP_006281	R	Q	RQ	benign
rs3734559	XP_166372	D	N	DN	benign
rs3734638	NP_036391	V	M	VM	benign
rs3734707	NP_835361	L	V	LV	benign
rs3734726	NP_570970	L	R	LR	benign
rs3734726	NP_079493	R	L	RL	benign
rs3734727	NP_570970	T	M	TM	benign
rs3734795	NP_005091	E	D	ED	benign
rs3734795	NP_653080	E	D	ED	benign
rs3734797	NP_005091	V	I	VI	benign
rs3734797	NP_653080	V	I	VI	benign
rs3734799	NP_005091	K	Q	KQ	benign
rs3734799	NP_653080	K	Q	KQ	benign
rs3734800	NP_060379	M	T	MT	benign
rs3734838	NP_008959	R	C	RC	possibly damaging
rs3734838	NP_438111	R	C	RC	possibly damaging
rs3734881	NP_055968	H	Y	HY	possibly damaging
rs3734928	NP_055812	S	L	SL	benign
rs3734929	NP_055812	S	R	SR	benign
rs3734990	XP_039393	R	C	RC	possibly damaging
rs3735042	NP_064695	M	T	MT	probably damaging
rs3735051	NP_057436	P	T	PT	probably damaging
rs3735053	NP_057436	R	L	RL	probably damaging
rs3735080	NP_694968	R	C	RC	probably damaging
rs3735099	NP_061111	P	H	PH	benign
rs3735100	NP_061111	T	S	TS	benign
rs3735101	NP_061111	R	L	RL	probably damaging
rs3735102	NP_061111	L	Q	LQ	benign

rs3735133	NP_115791	S	L	SL	possibly damaging
rs3735134	NP_115791	T	M	TM	possibly damaging
rs3735135	NP_112557	T	A	TA	benign
rs3735135	NP_003709	T	A	TA	benign
rs3735137	NP_112557	L	F	LF	benign
rs3735137	NP_003709	L	F	LF	benign
rs3735156	NP_733751	P	R	PR	possibly damaging
rs3735165	NP_037532	L	P	LP	probably damaging
rs3735165	NP_055189	P	L	PL	probably damaging
rs3735169	NP_076431	N	S	NS	benign
rs3735252	NP_055731	P	A	PA	possibly damaging
rs3735354	NP_001052	E	K	EK	benign
rs3735354	NP_112246	E	K	EK	benign
rs3735363	NP_003487	R	L	RL	possibly damaging
rs3735384	NP_001628	A	T	AT	benign
rs3735386	NP_001628	A	G	AG	benign
rs3735400	NP_061155	S	W	SW	probably damaging
rs3735422	NP_006649	V	L	VL	benign
rs3735450	NP_001176	I	M	IM	benign
rs3735454	NP_115540	T	M	TM	benign
rs3735471	NP_076959	G	E	GE	probably damaging
rs3735478	XP_371897	L	F	LF	benign
rs3735485	XP_291223	M	T	MT	benign
rs3735493	XP_166571	C	F	CF	probably damaging
rs3735494	XP_166571	V	A	VA	benign
rs3735495	XP_166571	D	E	DE	benign
rs3735531	NP_061824	T	M	TM	possibly damaging
rs3735541	NP_663160	R	H	RH	benign
rs3735541	NP_663161	R	H	RH	benign
rs3735541	NP_663162	R	H	RH	benign
rs3735541	NP_663163	R	H	RH	benign
rs3735541	NP_663164	R	H	RH	benign
rs3735541	NP_056365	R	H	RH	benign
rs3735572	XP_376587	V	E	VE	possibly damaging
rs3735573	XP_376587	R	W	RW	probably damaging
rs3735615	NP_877439	T	R	TR	possibly damaging
rs3735653	NP_001418	L	F	LF	benign
rs3735684	NP_060251	A	T	AT	benign
rs3735726	NP_758954	R	Q	RQ	benign
rs3735754	NP_057324	R	Q	RQ	benign
rs3735754	NP_878185	R	Q	RQ	benign
rs3735774	NP_039253	G	R	GR	benign
rs3735854	NP_055480	G	D	GD	possibly damaging
rs3735971	NP_061971	P	S	PS	possibly damaging
rs3735972	NP_061971	E	G	EG	possibly damaging
rs3736001	NP_005663	E	K	EK	benign

rs3736005	NP_059997	E	D	ED	benign
rs3736019	NP_002309	D	N	DN	benign
rs3736032	NP_061049	R	Q	RQ	benign
rs3736101	NP_569829	R	Q	RQ	benign
rs3736101	NP_569832	R	Q	RQ	benign
rs3736101	NP_003673	R	Q	RQ	benign
rs3736101	NP_569831	R	Q	RQ	benign
rs3736101	NP_569826	R	Q	RQ	benign
rs3736102	NP_003673	R	W	RW	benign
rs3736102	NP_569831	R	W	RW	benign
rs3736102	NP_569829	R	W	RW	possibly damaging
rs3736102	NP_569832	R	W	RW	possibly damaging
rs3736102	NP_569826	R	W	RW	possibly damaging
rs3736228	NP_002326	A	V	AV	benign
rs3736238	NP_004466	A	T	AT	benign
rs3736265	NP_037393	T	M	TM	benign
rs3736281	NP_003808	I	T	IT	benign
rs3736297	NP_000636	A	S	AS	benign
rs3736297	NP_000637	A	S	AS	benign
rs3736297	NP_000635	A	S	AS	benign
rs3736310	NP_997222	I	T	IT	benign
rs3736352	NP_055279	I	L	IL	benign
rs3736373	NP_060370	V	A	VA	benign
rs3736374	NP_060370	Q	H	QH	possibly damaging
rs3736390	NP_055693	T	S	TS	benign
rs3736391	NP_006842	R	Q	RQ	benign
rs3736392	NP_006842	R	Q	RQ	benign
rs3736414	XP_290592	N	S	NS	possibly damaging
rs3736422	NP_009045	Q	R	QR	possibly damaging
rs3736423	NP_061159	M	V	MV	benign
rs3736433	NP_954590	R	I	RI	possibly damaging
rs3736433	NP_059993	R	I	RI	possibly damaging
rs3736497	NP_079391	L	R	LR	benign
rs3736508	NP_057705	H	R	HR	benign
rs3736518	NP_009196	E	Q	EQ	benign
rs3736563	NP_055332	N	S	NS	benign
rs3736582	NP_699167	R	G	RG	benign
rs3736689	NP_061868	S	G	SG	benign
rs3736706	NP_065073	A	T	AT	benign
rs3736763	NP_055073	L	V	LV	benign
rs3736764	NP_938141	A	T	AT	benign
rs3736764	NP_938142	A	T	AT	benign
rs3736764	NP_620057	A	T	AT	benign
rs3736764	NP_620056	A	T	AT	benign
rs3736764	NP_620055	A	T	AT	benign
rs3736764	NP_060214	A	T	AT	benign

rs3736772	XP_048128	P	A	PA	benign
rs3736781	NP_001723	T	A	TA	benign
rs3736795	NP_006775	R	Q	RQ	benign
rs3736822	NP_055752	I	V	IV	benign
rs3736832	NP_937998	M	V	MV	possibly damaging
rs3736832	NP_036576	M	V	MV	possibly damaging
rs3736866	NP_005757	G	R	GR	possibly damaging
rs3736918	XP_113763	V	M	VM	benign
rs3736946	NP_057318	M	V	MV	benign
rs3736946	NP_976314	M	V	MV	benign
rs3737002	NP_000642	T	M	TM	benign
rs3737002	NP_000564	T	M	TM	benign
rs3737035	NP_950244	N	S	NS	benign
rs3737035	NP_060440	N	S	NS	benign
rs3737075	NP_478070	V	L	VL	benign
rs3737084	NP_705903	G	A	GA	benign
rs3737113	XP_371028	M	V	MV	benign
rs3737137	NP_005551	R	H	RH	benign
rs3737184	NP_060546	A	S	AS	benign
rs3737240	NP_004416	T	M	TM	benign
rs3737240	NP_073155	T	M	TM	benign
rs3737242	NP_671698	C	Y	CY	probably damaging
rs3737258	NP_065779	R	Q	RQ	benign
rs3737274	NP_059129	D	N	DN	benign
rs3737311	NP_003631	R	C	RC	probably damaging
rs3737374	NP_055754	T	A	TA	benign
rs3737392	NP_005561	I	T	IT	possibly damaging
rs3737458	NP_543142	R	Q	RQ	benign
rs3737506	NP_060651	E	D	ED	benign
rs3737512	NP_054896	G	S	GS	benign
rs3737553	NP_000574	H	Y	HY	probably damaging
rs3737564	NP_057062	I	T	IT	possibly damaging
rs3737655	NP_060678	Q	P	QP	possibly damaging
rs3737657	NP_060678	R	Q	RQ	benign
rs3737703	NP_056933	G	S	GS	benign
rs3737744	NP_950245	T	A	TA	benign
rs3737786	NP_112178	F	L	FL	benign
rs3737821	NP_001843	V	I	VI	benign
rs3737925	NP_002013	T	S	TS	benign
rs3737978	NP_057136	K	R	KR	benign
rs3737994	XP_036299	S	P	SP	benign
rs3738000	NP_079076	V	E	VE	benign
rs3738005	NP_071447	S	I	SI	benign
rs3738046	NP_000111	R	T	RT	benign
rs3738053	NP_004111	S	G	SG	benign
rs3738099	NP_000469	Y	H	YH	benign

rs3738115	NP_002817	N	H	NH	possibly damaging
rs3738136	NP_115785	A	T	AT	benign
rs3738159	XP_052561	L	V	LV	benign
rs3738178	NP_073583	C	S	CS	probably damaging
rs3738247	NP_065098	D	E	DE	benign
rs3738270	NP_840059	Y	H	YH	benign
rs3738281	NP_005549	A	S	AS	benign
rs3738283	NP_004069	K	I	KI	probably damaging
rs3738346	NP_694944	E	A	EA	possibly damaging
rs3738368	NP_659427	R	T	RT	benign
rs3738372	NP_001739	K	Q	KQ	possibly damaging
rs3738401	NP_061132	Q	R	QR	benign
rs3738413	NP_079464	R	Q	RQ	benign
rs3738420	NP_006775	P	A	PA	possibly damaging
rs3738439	XP_034086	K	E	KE	benign
rs3738477	NP_067045	G	S	GS	benign
rs3738497	NP_071751	Q	K	QK	benign
rs3738501	NP_071751	P	R	PR	probably damaging
rs3738531	NP_002499	Q	H	QH	benign
rs3738534	NP_002499	Q	R	QR	benign
rs3738586	NP_115668	L	F	LF	benign
rs3738597	XP_496351	E	K	EK	benign
rs3738648	NP_006502	N	S	NS	benign
rs3738671	NP_060116	F	L	FL	benign
rs3738690	NP_003038	I	V	IV	benign
rs3738708	NP_001609	F	L	FL	benign
rs3738766	NP_005263	L	I	LI	benign
rs3738877	NP_056994	R	H	RH	possibly damaging
rs3738880	NP_084656	S	A	SA	benign
rs3738880	NP_084655	S	A	SA	benign
rs3738885	NP_000456	S	C	SC	benign
rs3738888	NP_000456	R	C	RC	benign
rs3738918	NP_002201	I	V	IV	benign
rs3738922	XP_371230	R	H	RH	possibly damaging
rs3738952	NP_003581	V	I	VI	benign
rs3739011	NP_008994	M	V	MV	benign
rs3739038	NP_004726	H	D	HD	benign
rs3739040	NP_004726	P	L	PL	possibly damaging
rs3739041	NP_004726	K	E	KE	benign
rs3739061	NP_061115	R	Q	RQ	benign
rs3739068	NP_073728	P	A	PA	possibly damaging
rs3739070	NP_056465	M	L	ML	benign
rs3739090	NP_068603	V	M	VM	benign
rs3739097	NP_848648	R	C	RC	possibly damaging
rs3739112	NP_055383	P	L	PL	probably damaging
rs3739124	NP_055184	M	V	MV	possibly damaging

rs3739168	NP_009185	P	S	PS	possibly damaging
rs3739173	NP_009185	A	V	AV	benign
rs3739185	NP_009185	R	S	RS	benign
rs3739186	NP_009185	Y	N	YN	probably damaging
rs3739206	NP_009185	V	G	VG	possibly damaging
rs3739308	NP_065895	I	T	IT	benign
rs3739310	NP_065895	G	C	GC	probably damaging
rs3739335	NP_055984	K	R	KR	benign
rs3739336	NP_055984	R	L	RL	probably damaging
rs3739406	NP_004458	I	V	IV	benign
rs3739406	NP_671736	I	V	IV	benign
rs3739406	NP_963846	I	V	IV	benign
rs3739406	NP_963847	I	V	IV	benign
rs3739407	XP_372031	C	R	CR	benign
rs3739510	NP_006050	R	G	RG	benign
rs3739512	NP_006050	H	Q	HQ	benign
rs3739522	XP_041018	A	G	AG	benign
rs3739523	XP_041018	S	I	SI	benign
rs3739524	XP_041018	L	F	LF	benign
rs3739583	NP_068770	T	S	TS	benign
rs3739602	XP_046861	G	D	GD	possibly damaging
rs3739623	NP_387504	L	F	LF	benign
rs3739630	NP_002161	E	K	EK	benign
rs3739714	NP_060107	T	A	TA	benign
rs3739716	NP_060107	G	D	GD	possibly damaging
rs3739721	NP_000026	E	Q	EQ	benign
rs3739722	NP_597702	Q	R	QR	benign
rs3739740	NP_060846	K	E	KE	benign
rs3739741	NP_060846	A	G	AG	benign
rs3739756	NP_064592	M	T	MT	possibly damaging
rs3739757	NP_003820	L	F	LF	benign
rs3739922	NP_055861	F	C	FC	probably damaging
rs3739927	NP_055861	S	G	SG	benign
rs3739965	NP_777550	I	L	IL	benign
rs3739983	NP_001369	V	D	VD	probably damaging
rs3739998	XP_166132	S	T	ST	benign
rs3740015	NP_061176	Y	D	YD	benign
rs3740062	NP_056036	R	Q	RQ	benign
rs3740071	NP_000383	E	Q	EQ	benign
rs3740072	NP_000383	N	S	NS	possibly damaging
rs3740093	NP_008894	S	G	SG	benign
rs3740128	NP_004264	I	M	IM	benign
rs3740129	NP_004264	R	Q	RQ	benign
rs3740168	NP_001072	P	R	PR	possibly damaging
rs3740199	NP_067673	R	G	RG	benign
rs3740199	NP_003465	R	G	RG	possibly damaging

rs3740203	XP_374768	T	I	TI	possibly damaging
rs3740212	XP_166140	P	R	PR	probably damaging
rs3740217	NP_002207	P	A	PA	benign
rs3740231	NP_059129	T	S	TS	benign
rs3740296	NP_002891	R	K	RK	benign
rs3740321	NP_036462	V	I	VI	benign
rs3740343	NP_009009	V	I	VI	benign
rs3740364	NP_694958	T	M	TM	benign
rs3740370	NP_060601	H	Q	HQ	benign
rs3740421	NP_036347	G	E	GE	possibly damaging
rs3740423	NP_002408	E	V	EV	possibly damaging
rs3740427	XP_370585	R	G	RG	possibly damaging
rs3740447	XP_166125	R	C	RC	possibly damaging
rs3740469	NP_055535	T	I	TI	possibly damaging
rs3740515	NP_036215	D	H	DH	benign
rs3740515	NP_852000	H	D	HD	benign
rs3740516	NP_852000	G	A	GA	benign
rs3740517	NP_852000	A	V	AV	benign
rs3740526	NP_071757	G	D	GD	benign
rs3740630	NP_060782	D	V	DV	possibly damaging
rs3740691	NP_115765	S	N	SN	benign
rs3740722	NP_060513	G	R	GR	benign
rs3740753	NP_000917	T	S	TS	benign
rs3740754	NP_000917	G	R	GR	benign
rs3740771	NP_056331	V	I	VI	benign
rs3740772	NP_056331	R	C	RC	probably damaging
rs3740853	NP_060509	R	Q	RQ	benign
rs3740855	XP_290546	R	C	RC	possibly damaging
rs3740861	XP_290546	G	V	GV	probably damaging
rs3740862	XP_290546	V	M	VM	benign
rs3740868	NP_057624	Q	P	QP	possibly damaging
rs3740870	NP_004202	K	N	KN	benign
rs3740871	NP_004202	D	N	DN	benign
rs3740881	NP_001633	D	N	DN	benign
rs3740909	NP_058648	E	K	EK	benign
rs3740912	NP_058648	I	V	IV	benign
rs3740955	NP_000439	R	H	RH	benign
rs3740978	NP_003637	P	L	PL	benign
rs3740978	NP_963291	P	L	PL	possibly damaging
rs3740978	NP_963290	P	L	PL	possibly damaging
rs3740996	NP_149023	H	Y	HY	benign
rs3740996	NP_149083	H	Y	HY	benign
rs3740996	NP_149084	H	Y	HY	benign
rs3740997	NP_067629	D	H	DH	possibly damaging
rs3740997	NP_569073	D	H	DH	probably damaging
rs3741005	NP_068599	Y	C	YC	probably damaging



rs3741023	XP_039515	S	P	SP	benign
rs3741040	NP_000471	R	C	RC	probably damaging
rs3741046	NP_055880	R	L	RL	possibly damaging
rs3741048	NP_055880	D	N	DN	benign
rs3741056	NP_000010	A	P	AP	benign
rs3741095	NP_612351	A	E	AE	benign
rs3741138	NP_079431	A	G	AG	benign
rs3741150	NP_055601	G	E	GE	possibly damaging
rs3741151	NP_055601	R	L	RL	possibly damaging
rs3741156	NP_002555	R	S	RS	possibly damaging
rs3741156	NP_788085	R	S	RS	possibly damaging
rs3741156	NP_788086	R	S	RS	possibly damaging
rs3741178	NP_000686	A	T	AT	benign
rs3741194	NP_076941	V	A	VA	benign
rs3741238	NP_612634	G	D	GD	possibly damaging
rs3741252	NP_006124	P	L	PL	possibly damaging
rs3741256	NP_068373	D	E	DE	benign
rs3741280	NP_065744	H	N	HN	possibly damaging
rs3741310	NP_001549	D	G	DG	possibly damaging
rs3741367	NP_065137	H	R	HR	benign
rs3741378	NP_006738	S	F	SF	benign
rs3741378	NP_694985	S	F	SF	benign
rs3741379	NP_006738	A	S	AS	benign
rs3741379	NP_694985	A	S	AS	benign
rs3741380	XP_170658	R	Q	RQ	benign
rs3741395	XP_290516	Q	R	QR	benign
rs3741426	NP_006567	I	T	IT	possibly damaging
rs3741447	NP_937883	R	W	RW	benign
rs3741447	NP_002947	R	W	RW	benign
rs3741457	NP_003985	T	A	TA	benign
rs3741457	NP_000890	T	A	TA	benign
rs3741466	NP_036306	T	M	TM	benign
rs3741466	NP_699179	T	M	TM	benign
rs3741486	NP_005886	P	L	PL	benign
rs3741554	XP_035497	L	M	LM	benign
rs3741576	XP_374985	P	A	PA	possibly damaging
rs3741624	NP_003473	T	N	TN	benign
rs3741626	NP_003473	P	S	PS	possibly damaging
rs3741628	NP_060292	T	P	TP	benign
rs3741659	NP_065949	R	K	RK	benign
rs3741665	NP_612482	T	A	TA	benign
rs3741676	NP_003868	S	N	SN	benign
rs3741694	NP_542449	L	P	LP	possibly damaging
rs3741795	NP_477517	S	C	SC	benign
rs3741798	NP_060520	V	I	VI	benign
rs3741803	NP_060520	N	Y	NY	possibly damaging

rs3741822	NP_061124	A	D	AD	benign
rs3741845	NP_076406	V	A	VA	benign
rs3741883	XP_374996	P	R	PR	probably damaging
rs3741901	NP_065106	P	S	PS	probably damaging
rs3741903	NP_065106	V	A	VA	benign
rs3741913	NP_001029	C	F	CF	probably damaging
rs3741923	NP_115878	T	A	TA	benign
rs3741927	NP_003836	N	S	NS	benign
rs3741981	NP_058132	S	G	SG	benign
rs3741981	NP_002525	S	G	SG	benign
rs3742030	NP_067638	P	S	PS	possibly damaging
rs3742049	XP_495935	A	T	AT	benign
rs3742076	NP_973732	S	P	SP	benign
rs3742076	NP_973731	S	P	SP	benign
rs3742076	NP_068772	S	P	SP	possibly damaging
rs3742089	NP_057630	V	I	VI	benign
rs3742113	NP_689918	D	G	DG	possibly damaging
rs3742185	NP_060134	P	L	PL	probably damaging
rs3742191	NP_060680	K	E	KE	benign
rs3742192	NP_060680	V	I	VI	benign
rs3742212	NP_996820	L	F	LF	benign
rs3742262	XP_038664	M	T	MT	benign
rs3742264	NP_057497	A	T	AT	benign
rs3742264	NP_001863	T	A	TA	benign
rs3742289	XP_375024	G	V	GV	benign
rs3742290	XP_375024	T	A	TA	benign
rs3742298	NP_008946	F	L	FL	probably damaging
rs3742299	NP_002581	S	L	SL	possibly damaging
rs3742301	NP_116567	W	R	WR	probably damaging
rs3742301	NP_002581	W	R	WR	probably damaging
rs3742302	NP_005791	N	S	NS	benign
rs3742303	NP_005791	P	S	PS	possibly damaging
rs3742321	NP_821074	K	R	KR	benign
rs3742321	NP_821075	K	R	KR	benign
rs3742321	NP_443083	K	R	KR	benign
rs3742424	NP_848701	A	P	AP	benign
rs3742424	NP_002710	A	P	AP	benign
rs3742453	XP_497423	V	L	VL	benign
rs3742454	XP_497423	P	S	PS	benign
rs3742456	XP_497423	E	G	EG	possibly damaging
rs3742457	XP_497423	S	N	SN	benign
rs3742489	XP_375065	P	T	PT	possibly damaging
rs3742518	XP_370756	E	K	EK	benign
rs3742520	XP_377338	K	T	KT	benign
rs3742536	NP_031387	P	S	PS	probably damaging
rs3742569	NP_060413	L	P	LP	benign

rs3742591	NP_055906	L	V	LV	benign
rs3742592	XP_375075	N	I	NI	possibly damaging
rs3742636	NP_059116	P	H	PH	probably damaging
rs3742646	NP_072093	A	V	AV	benign
rs3742704	NP_003599	I	L	IL	benign
rs3742712	NP_001266	R	Q	RQ	benign
rs3742717	NP_079108	T	M	TM	benign
rs3742728	NP_954874	A	T	AT	benign
rs3742728	NP_954993	A	T	AT	benign
rs3742728	NP_872315	A	T	AT	benign
rs3742801	NP_064730	E	K	EK	benign
rs3742801	NP_064731	E	K	EK	benign
rs3742801	NP_064720	E	K	EK	benign
rs3742809	NP_079333	K	E	KE	benign
rs3742819	NP_689544	R	C	RC	possibly damaging
rs3742883	NP_056161	N	S	NS	benign
rs3742884	NP_056161	A	V	AV	benign
rs3742885	NP_056161	P	L	PL	benign
rs3742926	NP_004265	A	V	AV	benign
rs3742935	XP_290629	P	A	PA	possibly damaging
rs3742937	XP_208766	T	N	TN	benign
rs3742945	NP_612385	R	Q	RQ	benign
rs3742946	XP_050278	G	S	GS	benign
rs3742970	NP_055608	R	S	RS	possibly damaging
rs3742985	NP_079184	S	G	SG	benign
rs3742993	XP_031744	N	D	ND	benign
rs3742995	XP_031744	R	G	RG	benign
rs3743044	NP_005145	D	G	DG	probably damaging
rs3743070	NP_055894	E	K	EK	benign
rs3743071	NP_055894	Q	E	QE	benign
rs3743091	NP_663633	L	F	LF	benign
rs3743093	NP_663633	G	E	GE	possibly damaging
rs3743126	NP_009154	V	F	VF	benign
rs3743135	NP_064553	H	R	HR	benign
rs3743137	NP_064553	P	L	PL	probably damaging
rs3743142	NP_277045	R	W	RW	probably damaging
rs3743143	NP_055767	E	G	EG	possibly damaging
rs3743193	NP_055733	P	S	PS	probably damaging
rs3743211	NP_056307	D	G	DG	possibly damaging
rs3743279	NP_705872	N	S	NS	benign
rs3743279	NP_079242	N	S	NS	benign
rs3743279	NP_705871	N	S	NS	benign
rs3743279	NP_705870	N	S	NS	benign
rs3743279	NP_705869	N	S	NS	benign
rs3743315	NP_060473	I	T	IT	benign
rs3743323	NP_009131	S	N	SN	benign

rs3743323	NP_658913	S	N	SN	benign
rs3743323	NP_006729	S	N	SN	benign
rs3743372	NP_689472	C	R	CR	possibly damaging
rs3743373	NP_002657	E	K	EK	benign
rs3743477	NP_073604	P	L	PL	probably damaging
rs3743523	NP_149978	E	D	ED	benign
rs3743563	NP_002419	G	R	GR	benign
rs3743598	NP_036223	N	H	NH	benign
rs3743599	NP_036223	T	N	TN	benign
rs3743600	NP_036223	T	P	TP	benign
rs3743640	NP_647610	P	S	PS	benign
rs3743640	NP_005670	P	S	PS	benign
rs3743695	NP_060009	E	K	EK	benign
rs3743728	NP_036295	R	Q	RQ	benign
rs3743736	NP_775186	E	A	EA	possibly damaging
rs3743736	NP_775187	E	A	EA	possibly damaging
rs3743736	NP_004546	E	A	EA	possibly damaging
rs3743736	NP_775188	E	A	EA	possibly damaging
rs3743738	NP_079215	A	V	AV	benign
rs3743749	NP_955387	S	T	ST	benign
rs3743771	NP_079410	T	A	TA	benign
rs3743788	NP_001034	I	T	IT	benign
rs3743808	NP_000294	M	V	MV	probably damaging
rs3743853	NP_112485	D	N	DN	benign
rs3743868	NP_065815	R	Q	RQ	benign
rs3743887	NP_067082	R	W	RW	benign
rs3743913	NP_620124	R	Q	RQ	benign
rs3743922	XP_208908	N	K	NK	benign
rs3743922	NP_060460	N	K	NK	possibly damaging
rs3743968	NP_061173	K	I	KI	possibly damaging
rs3743968	NP_008841	K	I	KI	possibly damaging
rs3743979	NP_777577	V	M	VM	benign
rs3743989	NP_113678	R	C	RC	probably damaging
rs3744013	XP_371079	T	I	TI	benign
rs3744018	NP_258411	A	T	AT	benign
rs3744022	NP_258411	S	L	SL	benign
rs3744025	NP_954712	T	M	TM	benign
rs3744032	NP_009223	G	S	GS	benign
rs3744039	NP_892010	Q	H	QH	benign
rs3744039	NP_068807	Q	H	QH	benign
rs3744093	NP_060233	V	I	VI	benign
rs3744099	NP_004749	H	L	HL	benign
rs3744101	NP_004749	R	C	RC	possibly damaging
rs3744108	NP_004678	L	V	LV	benign
rs3744206	NP_001536	R	P	RP	possibly damaging
rs3744241	NP_775102	E	K	EK	benign

rs3744250	NP_115732	L	F	LF	benign
rs3744307	NP_004685	E	D	ED	benign
rs3744355	NP_443089	T	S	TS	benign
rs3744356	NP_002302	R	W	RW	probably damaging
rs3744356	NP_039269	R	W	RW	probably damaging
rs3744370	NP_689483	N	K	NK	benign
rs3744372	XP_496206	Y	S	YS	probably damaging
rs3744374	NP_644814	A	V	AV	benign
rs3744376	NP_071353	A	V	AV	benign
rs3744395	NP_444515	R	C	RC	benign
rs3744399	NP_056158	T	A	TA	benign
rs3744438	NP_060958	A	V	AV	benign
rs3744448	NP_060958	G	A	GA	benign
rs3744476	NP_006679	K	R	KR	benign
rs3744508	NP_002977	A	T	AT	benign
rs3744523	NP_079425	V	M	VM	benign
rs3744539	NP_005211	D	H	DH	benign
rs3744549	NP_065093	V	I	VI	benign
rs3744550	NP_003793	R	H	RH	benign
rs3744554	NP_060003	E	K	EK	benign
rs3744558	NP_060003	T	M	TM	benign
rs3744564	NP_005954	R	C	RC	probably damaging
rs3744574	NP_001363	P	L	PL	probably damaging
rs3744577	NP_001363	A	T	AT	benign
rs3744581	NP_001363	N	S	NS	possibly damaging
rs3744644	NP_003684	E	D	ED	benign
rs3744644	NP_663327	E	D	ED	benign
rs3744647	NP_776089	S	P	SP	possibly damaging
rs3744679	NP_002199	Q	H	QH	possibly damaging
rs3744692	NP_000682	G	E	GE	benign
rs3744696	NP_000682	P	A	PA	probably damaging
rs3744710	NP_004694	S	T	ST	benign
rs3744718	NP_127499	R	Q	RQ	benign
rs3744718	NP_127500	R	Q	RQ	benign
rs3744718	NP_055737	R	Q	RQ	benign
rs3744718	NP_127497	R	Q	RQ	benign
rs3744741	NP_056536	R	Q	RQ	benign
rs3744786	NP_002269	Q	R	QR	benign
rs3744807	NP_722546	G	R	GR	possibly damaging
rs3744822	NP_056023	S	P	SP	possibly damaging
rs3744825	NP_056374	I	V	IV	benign
rs3744872	NP_079081	N	H	NH	benign
rs3744873	NP_079081	Q	K	QK	benign
rs3744900	NP_060417	S	N	SN	benign
rs3744921	NP_073588	K	R	KR	benign
rs3744979	NP_056025	G	D	GD	possibly damaging

rs3745009	NP_009094	A	T	AT	benign
rs3745060	NP_056963	K	T	KT	benign
rs3745073	NP_004843	S	L	SL	benign
rs3745078	NP_005594	I	V	IV	benign
rs3745079	NP_005594	H	Q	HQ	possibly damaging
rs3745102	NP_060730	H	R	HR	benign
rs3745105	XP_375639	R	K	RK	benign
rs3745115	XP_047550	K	N	KN	benign
rs3745132	NP_689688	K	Q	KQ	benign
rs3745132	NP_116217	Q	K	QK	benign
rs3745133	NP_689688	L	R	LR	probably damaging
rs3745133	NP_116217	L	R	LR	probably damaging
rs3745145	NP_006496	R	G	RG	probably damaging
rs3745186	NP_078803	G	R	GR	possibly damaging
rs3745193	NP_598399	R	H	RH	possibly damaging
rs3745193	NP_116009	R	H	RH	possibly damaging
rs3745202	NP_870998	P	R	PR	probably damaging
rs3745207	NP_000704	R	Q	RQ	probably damaging
rs3745226	NP_073589	R	Q	RQ	benign
rs3745227	NP_073589	P	L	PL	probably damaging
rs3745228	NP_073589	R	Q	RQ	benign
rs3745234	NP_001401	V	I	VI	benign
rs3745238	NP_005348	R	L	RL	benign
rs3745249	NP_835388	K	E	KE	benign
rs3745249	NP_075384	K	E	KE	benign
rs3745268	NP_004221	R	Q	RQ	benign
rs3745274	NP_000758	Q	H	QH	benign
rs3745297	NP_002143	S	A	SA	benign
rs3745298	NP_002143	S	N	SN	benign
rs3745312	NP_699160	E	K	EK	benign
rs3745318	NP_057354	L	P	LP	possibly damaging
rs3745319	NP_057354	R	H	RH	benign
rs3745320	XP_211460	I	V	IV	benign
rs3745335	NP_056507	D	E	DE	benign
rs3745340	NP_056507	Q	R	QR	benign
rs3745358	XP_048362	P	S	PS	possibly damaging
rs3745377	NP_079337	P	L	PL	probably damaging
rs3745379	NP_079337	E	K	EK	benign
rs3745418	NP_006855	V	M	VM	benign
rs3745433	NP_065710	G	R	GR	benign
rs3745442	NP_068352	E	D	ED	benign
rs3745442	NP_068354	E	D	ED	benign
rs3745467	NP_079101	R	W	RW	possibly damaging
rs3745470	NP_067051	T	A	TA	benign
rs3745486	NP_078958	P	L	PL	possibly damaging
rs3745489	NP_036478	G	S	GS	possibly damaging

rs3745489	NP_057637	G	S	GS	possibly damaging
rs3745489	NP_714940	G	S	GS	possibly damaging
rs3745489	NP_714941	G	S	GS	possibly damaging
rs3745498	NP_689571	R	C	RC	possibly damaging
rs3745521	NP_057232	V	A	VA	benign
rs3745535	NP_002767	S	A	SA	benign
rs3745535	NP_665895	S	A	SA	benign
rs3745539	NP_659196	G	E	GE	possibly damaging
rs3745539	NP_006844	G	E	GE	probably damaging
rs3745576	XP_091914	Q	H	QH	benign
rs3745635	NP_000140	G	S	GS	possibly damaging
rs3745640	NP_699190	P	L	PL	benign
rs3745663	XP_375568	R	H	RH	benign
rs3745674	NP_004936	P	L	PL	probably damaging
rs3745708	NP_061986	P	L	PL	possibly damaging
rs3745711	NP_061986	A	D	AD	benign
rs3745712	NP_061986	A	T	AT	benign
rs3745725	NP_733838	R	C	RC	probably damaging
rs3745727	NP_060178	R	H	RH	benign
rs3745728	NP_060178	L	P	LP	probably damaging
rs3745732	NP_064511	S	F	SF	possibly damaging
rs3745746	NP_062829	V	A	VA	benign
rs3745747	NP_062829	R	Q	RQ	benign
rs3745751	NP_071425	C	W	CW	probably damaging
rs3745764	NP_861451	T	I	TI	possibly damaging
rs3745765	NP_861451	S	I	SI	benign
rs3745775	NP_996777	R	Q	RQ	benign
rs3745783	NP_065907	F	L	FL	benign
rs3745790	XP_371184	V	I	VI	benign
rs3745833	NP_149097	I	M	IM	benign
rs3745842	NP_150651	Q	R	QR	benign
rs3745842	NP_061985	Q	R	QR	benign
rs3745885	NP_065396	T	M	TM	possibly damaging
rs3745893	NP_006728	R	Q	RQ	benign
rs3745894	NP_006728	P	T	PT	benign
rs3745902	NP_006728	T	M	TM	benign
rs3745903	NP_006728	K	Q	KQ	benign
rs3745904	NP_060322	E	Q	EQ	benign
rs3745945	XP_032278	P	A	PA	possibly damaging
rs3745953	NP_067008	S	R	SR	benign
rs3745972	NP_004355	A	E	AE	benign
rs3745974	NP_002324	A	V	AV	benign
rs3745985	NP_056982	A	T	AT	benign
rs3745997	NP_065139	T	N	TN	benign
rs3746072	NP_003766	R	L	RL	benign
rs3746101	NP_951009	Q	K	QK	benign

rs3746101	NP_060042	Q	K	QK	benign
rs3746119	NP_004877	K	T	KT	benign
rs3746139	NP_079164	A	T	AT	benign
rs3746173	NP_775752	S	G	SG	benign
rs3746175	NP_775752	K	R	KR	benign
rs3746204	NP_079070	R	C	RC	benign
rs3746223	NP_065684	I	M	IM	benign
rs3746231	XP_372753	G	D	GD	benign
rs3746266	NP_056136	A	T	AT	benign
rs3746266	NP_079297	T	A	TA	benign
rs3746267	NP_056136	R	H	RH	benign
rs3746267	NP_079297	R	H	RH	benign
rs3746319	NP_037530	K	E	KE	benign
rs3746323	NP_037530	H	D	HD	probably damaging
rs3746366	NP_742105	Y	C	YC	benign
rs3746366	NP_004509	Y	C	YC	probably damaging
rs3746366	NP_742104	Y	C	YC	probably damaging
rs3746366	NP_742106	Y	C	YC	probably damaging
rs3746387	NP_542406	E	K	EK	benign
rs3746405	XP_086650	C	R	CR	probably damaging
rs3746414	NP_060667	S	N	SN	benign
rs3746414	NP_071371	S	N	SN	benign
rs3746414	NP_955458	S	N	SN	benign
rs3746429	NP_060687	T	A	TA	benign
rs3746435	XP_371398	K	N	KN	possibly damaging
rs3746437	XP_371398	R	H	RH	probably damaging
rs3746442	XP_371398	P	S	PS	benign
rs3746471	XP_028810	R	W	RW	probably damaging
rs3746500	NP_542170	R	Q	RQ	benign
rs3746542	NP_115597	I	V	IV	benign
rs3746609	NP_056153	G	S	GS	benign
rs3746636	NP_075556	S	Y	SY	possibly damaging
rs3746638	NP_075556	A	V	AV	benign
rs3746699	NP_068598	I	V	IV	benign
rs3746700	NP_068598	R	C	RC	possibly damaging
rs3746726	NP_001043	V	F	VF	possibly damaging
rs3746731	NP_036204	S	P	SP	benign
rs3746736	NP_612140	W	R	WR	benign
rs3746737	NP_612140	T	M	TM	benign
rs3746802	NP_212134	V	I	VI	benign
rs3746803	NP_212134	M	T	MT	benign
rs3746804	NP_212134	L	P	LP	benign
rs3746840	NP_008969	R	S	RS	benign
rs3746843	NP_064537	I	V	IV	benign
rs3746866	NP_005119	P	H	PH	probably damaging
rs3746867	NP_005119	R	S	RS	benign



rs3746875	NP_733933	M	L	ML	benign
rs3746887	NP_149363	M	T	MT	benign
rs3746891	NP_065690	M	V	MV	benign
rs3746951	NP_775490	G	S	GS	benign
rs3747038	XP_036729	V	I	VI	benign
rs3747038	NP_059110	V	I	VI	benign
rs3747052	NP_443732	K	R	KR	benign
rs3747073	NP_075380	D	N	DN	benign
rs3747103	NP_057533	G	E	GE	possibly damaging
rs3747105	NP_057533	S	N	SN	benign
rs3747186	NP_000253	I	V	IV	benign
rs3747203	NP_942153	R	G	RG	possibly damaging
rs3747203	NP_073622	R	G	RG	probably damaging
rs3747286	NP_065973	E	K	EK	benign
rs3747295	NP_938011	F	L	FL	benign
rs3747327	NP_002177	V	I	VI	benign
rs3747328	NP_002177	S	T	ST	benign
rs3747328	NP_789743	V	L	VL	benign
rs3747333	NP_851849	L	F	LF	possibly damaging
rs3747354	NP_079460	E	Q	EQ	benign
rs3747359	NP_055614	D	H	DH	possibly damaging
rs3747359	NP_620074	D	H	DH	possibly damaging
rs3747386	NP_036212	P	A	PA	probably damaging
rs3747421	NP_060326	E	V	EV	possibly damaging
rs3747423	NP_068838	D	N	DN	benign
rs3747479	NP_057724	S	C	SC	benign
rs3747481	NP_076936	P	L	PL	probably damaging
rs3747495	XP_372133	F	L	FL	benign
rs3747517	NP_071451	H	R	HR	possibly damaging
rs3747525	NP_060110	E	A	EA	possibly damaging
rs3747531	NP_002436	P	A	PA	probably damaging
rs3747531	NP_619730	P	A	PA	probably damaging
rs3747531	NP_619729	P	A	PA	probably damaging
rs3747532	NP_005445	A	G	AG	possibly damaging
rs3747539	NP_055722	T	P	TP	benign
rs3747540	NP_055722	S	L	SL	benign
rs3747579	NP_078811	R	Q	RQ	benign
rs3747582	NP_065728	P	L	PL	probably damaging
rs3747616	NP_065840	A	V	AV	benign
rs3747617	NP_065840	E	G	EG	possibly damaging
rs3747631	NP_006329	L	V	LV	benign
rs3747631	NP_963924	L	V	LV	benign
rs3747690	NP_079363	T	P	TP	possibly damaging
rs3747731	XP_029101	P	L	PL	probably damaging
rs3747742	NP_079083	G	S	GS	benign
rs3747747	NP_006644	P	L	PL	possibly damaging

rs3747787	XP_166300	C	R	CR	probably damaging
rs3747849	NP_937895	A	T	AT	probably damaging
rs3747853	NP_067049	R	C	RC	possibly damaging
rs3747879	NP_690875	R	Q	RQ	benign
rs3747879	NP_997011	R	Q	RQ	benign
rs3747881	NP_963858	K	R	KR	benign
rs3747881	NP_570140	K	R	KR	benign
rs3747933	XP_097736	P	R	PR	probably damaging
rs3747943	NP_065194	D	N	DN	benign
rs3747951	NP_057629	P	S	PS	possibly damaging
rs3747952	NP_057629	P	S	PS	benign
rs3747954	NP_057629	V	I	VI	benign
rs3747955	NP_057629	R	H	RH	benign
rs3747959	XP_046531	H	Y	HY	benign
rs3747991	NP_055917	P	R	PR	probably damaging
rs3748022	XP_375834	P	L	PL	benign
rs3748034	NP_001519	A	S	AS	benign
rs3748042	NP_060899	N	S	NS	benign
rs3748043	NP_060899	E	D	ED	benign
rs3748085	XP_376519	I	V	IV	benign
rs3748092	NP_443085	V	M	VM	benign
rs3748098	XP_376724	G	A	GA	benign
rs3748103	XP_496891	D	Y	DY	benign
rs3748103	NP_060734	Y	D	YD	benign
rs3748140	NP_078883	G	E	GE	benign
rs3748169	NP_002151	D	H	DH	possibly damaging
rs3748170	NP_002151	L	V	LV	benign
rs3748176	NP_110394	P	L	PL	benign
rs3748178	NP_110394	R	Q	RQ	benign
rs3748192	NP_055626	V	A	VA	benign
rs3748195	NP_055626	R	H	RH	benign
rs3748197	NP_055626	P	A	PA	possibly damaging
rs3748199	NP_057118	H	R	HR	possibly damaging
rs3748210	NP_002562	Q	K	QK	benign
rs3748222	NP_065875	S	N	SN	benign
rs3748229	NP_689522	A	S	AS	benign
rs3748233	NP_689522	E	K	EK	benign
rs3748261	NP_079001	K	R	KR	benign
rs3748287	XP_045423	S	G	SG	possibly damaging
rs3748338	NP_919412	T	S	TS	benign
rs3748360	NP_065099	S	L	SL	possibly damaging
rs3748361	NP_065099	Q	E	QE	benign
rs3748400	NP_055959	V	M	VM	benign
rs3748415	NP_694545	V	I	VI	benign
rs3748428	NP_071351	V	I	VI	benign
rs3748433	NP_009117	R	Q	RQ	benign

rs3748460	XP_293104	G	R	GR	possibly damaging
rs3748545	NP_065883	G	E	GE	possibly damaging
rs3748547	NP_065883	R	H	RH	benign
rs3748570	NP_006608	P	L	PL	possibly damaging
rs3748597	NP_056473	V	I	VI	benign
rs3748665	NP_079022	R	Q	RQ	benign
rs3748666	NP_079022	H	D	HD	benign
rs3748686	NP_060236	R	W	RW	possibly damaging
rs3748704	NP_079187	D	G	DG	possibly damaging
rs3748729	NP_005540	S	N	SN	benign
rs3748735	NP_079455	A	T	AT	benign
rs3748796	NP_569707	Y	C	YC	probably damaging
rs3748796	NP_002831	Y	C	YC	probably damaging
rs3748800	NP_569707	D	N	DN	benign
rs3748800	NP_002831	D	N	DN	benign
rs3748805	NP_789823	L	R	LR	possibly damaging
rs3748811	NP_078895	A	V	AV	benign
rs3748816	NP_258428	M	T	MT	benign
rs3748867	NP_061027	R	P	RP	possibly damaging
rs3748932	NP_004845	D	N	DN	benign
rs3748961	NP_005226	R	Q	RQ	benign
rs3748976	NP_060810	D	A	DA	benign
rs3748980	NP_060810	V	I	VI	benign
rs3748982	NP_060810	N	S	NS	benign
rs3748993	XP_041126	T	P	TP	possibly damaging
rs3749002	XP_496606	G	D	GD	benign
rs3749003	XP_496606	Y	C	YC	probably damaging
rs3749005	XP_496607	R	G	RG	possibly damaging
rs3749006	XP_496607	V	G	VG	probably damaging
rs3749029	NP_008851	R	H	RH	possibly damaging
rs3749031	NP_079029	R	Q	RQ	benign
rs3749036	XP_371581	A	T	AT	benign
rs3749073	NP_005674	G	V	GV	probably damaging
rs3749081	XP_371542	P	R	PR	possibly damaging
rs3749130	XP_376060	R	W	RW	possibly damaging
rs3749131	XP_376060	N	S	NS	possibly damaging
rs3749143	NP_758515	S	P	SP	benign
rs3749143	NP_006864	S	P	SP	benign
rs3749171	NP_005292	T	M	TM	benign
rs3749172	NP_005292	S	R	SR	benign
rs3749191	NP_073753	Q	R	QR	benign
rs3749195	NP_003232	R	C	RC	possibly damaging
rs3749271	NP_848540	K	N	KN	benign
rs3749298	NP_665696	P	S	PS	benign
rs3749323	NP_055230	G	S	GS	benign
rs3749370	NP_699161	S	L	SL	probably damaging

rs3749383	NP_002213	I	V	IV	benign
rs3749422	NP_065977	G	E	GE	probably damaging
rs3749422	NP_060215	G	E	GE	probably damaging
rs3749471	NP_060109	L	P	LP	possibly damaging
rs3749499	XP_037817	E	D	ED	benign
rs3749509	XP_371717	S	C	SC	benign
rs3749574	NP_006717	A	T	AT	benign
rs3749591	XP_052597	S	R	SR	benign
rs3749598	NP_064501	D	Y	DY	probably damaging
rs3749612	NP_079062	V	I	VI	benign
rs3749671	NP_054899	G	S	GS	possibly damaging
rs3749736	NP_055605	V	I	VI	benign
rs3749737	NP_003990	P	S	PS	possibly damaging
rs3749741	NP_955367	K	R	KR	benign
rs3749741	NP_001456	K	R	KR	benign
rs3749745	NP_061170	Q	E	QE	benign
rs3749760	NP_258260	N	K	NK	possibly damaging
rs3749767	NP_115271	A	T	AT	benign
rs3749767	NP_061749	A	T	AT	benign
rs3749768	NP_115271	P	S	PS	benign
rs3749768	NP_061749	P	S	PS	benign
rs3749779	NP_114153	V	G	VG	probably damaging
rs3749780	NP_114153	V	I	VI	benign
rs3749817	XP_048786	T	M	TM	benign
rs3749822	NP_940969	P	L	PL	benign
rs3749894	XP_371844	A	T	AT	benign
rs3749895	XP_371844	A	P	AP	benign
rs3749903	NP_149103	A	G	AG	benign
rs3749930	NP_056533	T	K	TK	benign
rs3749960	NP_061978	F	Y	FY	benign
rs3749966	NP_006772	I	V	IV	benign
rs3749971	NP_112221	T	I	TI	possibly damaging
rs3749977	XP_498070	R	Q	RQ	benign
rs3750009	NP_064529	N	K	NK	benign
rs3750010	NP_064529	K	R	KR	benign
rs3750050	NP_002826	T	A	TA	benign
rs3750103	NP_004058	H	R	HR	possibly damaging
rs3750146	NP_003496	V	M	VM	benign
rs3750206	NP_055932	F	Y	FY	benign
rs3750207	NP_055932	E	D	ED	benign
rs3750208	NP_055932	R	W	RW	benign
rs3750228	NP_078780	K	E	KE	benign
rs3750266	NP_112220	L	F	LF	benign
rs3750300	NP_057317	I	V	IV	benign
rs3750308	XP_098762	F	L	FL	benign
rs3750378	NP_689499	Q	E	QE	benign

rs3750379	NP_689499	E	D	ED	benign
rs3750384	NP_620133	A	V	AV	benign
rs3750425	NP_060132	V	I	VI	benign
rs3750427	XP_048462	P	L	PL	possibly damaging
rs3750428	XP_048462	E	A	EA	possibly damaging
rs3750478	NP_002166	K	E	KE	benign
rs3750480	NP_066546	E	V	EV	benign
rs3750501	NP_981948	S	G	SG	benign
rs3750533	NP_659488	T	A	TA	benign
rs3750534	NP_659488	R	Q	RQ	benign
rs3750575	NP_004025	R	Q	RQ	benign
rs3750575	NP_001147	R	Q	RQ	benign
rs3750587	NP_060079	L	F	LF	benign
rs3750673	NP_061172	G	S	GS	benign
rs3750674	NP_061172	T	A	TA	benign
rs3750690	NP_997186	Q	L	QL	probably damaging
rs3750784	NP_060096	E	K	EK	possibly damaging
rs3750819	NP_075260	R	P	RP	benign
rs3750819	NP_075258	R	P	RP	possibly damaging
rs3750819	NP_075259	R	P	RP	possibly damaging
rs3750819	NP_075261	R	P	RP	possibly damaging
rs3750819	NP_075262	R	P	RP	possibly damaging
rs3750819	NP_075263	R	P	RP	possibly damaging
rs3750819	NP_075265	R	P	RP	possibly damaging
rs3750819	NP_075417	R	P	RP	possibly damaging
rs3750819	NP_075419	R	P	RP	possibly damaging
rs3750819	NP_075420	R	P	RP	possibly damaging
rs3750819	NP_075264	R	P	RP	possibly damaging
rs3750819	NP_000132	R	P	RP	possibly damaging
rs3750819	NP_075418	R	P	RP	probably damaging
rs3750823	NP_079032	S	G	SG	benign
rs3750824	NP_002403	R	Q	RQ	possibly damaging
rs3750843	NP_996742	N	S	NS	benign
rs3750843	NP_996743	N	S	NS	benign
rs3750843	NP_996744	N	S	NS	benign
rs3750843	NP_008928	N	S	NS	benign
rs3750898	NP_055696	H	D	HD	possibly damaging
rs3750904	NP_002968	D	G	DG	benign
rs3750913	NP_006176	A	G	AG	benign
rs3750925	NP_000833	F	S	FS	benign
rs3750943	NP_115503	R	L	RL	benign
rs3750944	NP_115503	T	M	TM	possibly damaging
rs3750965	NP_620714	K	R	KR	benign
rs3750982	NP_689931	P	R	PR	possibly damaging
rs3751037	XP_374949	V	L	VL	benign
rs3751054	NP_066025	T	A	TA	possibly damaging

rs3751055	NP_066025	T	M	TM	benign
rs3751057	NP_066025	T	S	TS	benign
rs3751059	NP_066025	P	R	PR	probably damaging
rs3751066	NP_065694	P	A	PA	benign
rs3751093	NP_002299	G	S	GS	benign
rs3751093	NP_033665	G	S	GS	benign
rs3751095	NP_112168	A	T	AT	benign
rs3751096	NP_112168	D	E	DE	benign
rs3751107	NP_077006	G	D	GD	benign
rs3751108	NP_077006	D	N	DN	benign
rs3751109	NP_077006	L	P	LP	benign
rs3751112	NP_071894	V	A	VA	benign
rs3751143	NP_002553	E	A	EA	benign
rs3751197	NP_060034	Y	S	YS	probably damaging
rs3751223	XP_292021	T	M	TM	benign
rs3751262	NP_477517	D	N	DN	benign
rs3751303	XP_495939	P	S	PS	possibly damaging
rs3751315	XP_495939	P	L	PL	possibly damaging
rs3751325	NP_150592	S	C	SC	benign
rs3751336	XP_166270	T	I	TI	possibly damaging
rs3751353	NP_848635	G	A	GA	possibly damaging
rs3751356	XP_370715	R	Q	RQ	benign
rs3751357	NP_848635	V	M	VM	benign
rs3751362	NP_683760	V	I	VI	benign
rs3751362	NP_061117	V	I	VI	benign
rs3751379	NP_733837	V	A	VA	benign
rs3751386	NP_068773	P	L	PL	probably damaging
rs3751449	NP_005195	A	T	AT	benign
rs3751489	NP_004986	R	H	RH	possibly damaging
rs3751495	NP_068763	D	N	DN	benign
rs3751501	NP_055792	S	F	SF	benign
rs3751534	NP_002528	P	S	PS	possibly damaging
rs3751593	NP_699205	I	V	IV	benign
rs3751655	NP_064595	S	A	SA	benign
rs3751655	NP_945119	S	A	SA	benign
rs3751664	NP_066921	R	C	RC	probably damaging
rs3751672	NP_478072	L	P	LP	possibly damaging
rs3751682	NP_705900	P	L	PL	probably damaging
rs3751682	NP_055242	P	L	PL	probably damaging
rs3751721	NP_055430	P	L	PL	probably damaging
rs3751727	NP_060036	L	V	LV	benign
rs3751821	NP_055526	P	L	PL	possibly damaging
rs3751848	NP_078947	A	S	AS	benign
rs3751856	NP_055514	R	Q	RQ	benign
rs3751886	NP_066921	E	G	EG	possibly damaging
rs3751981	NP_683684	R	Q	RQ	benign

rs3752015	XP_371024	F	L	FL	benign
rs3752016	XP_371024	G	R	GR	possibly damaging
rs3752032	NP_066292	R	Q	RQ	possibly damaging
rs3752033	NP_066292	R	Q	RQ	benign
rs3752034	NP_066292	R	H	RH	possibly damaging
rs3752036	NP_066292	R	P	RP	probably damaging
rs3752074	NP_031371	H	N	HN	probably damaging
rs3752078	NP_031371	A	T	AT	benign
rs3752094	NP_001933	D	N	DN	benign
rs3752095	NP_001933	Y	F	YF	benign
rs3752101	XP_058931	R	H	RH	probably damaging
rs3752105	NP_542418	R	K	RK	benign
rs3752105	NP_075387	R	K	RK	benign
rs3752107	NP_542418	A	T	AT	benign
rs3752107	NP_075387	A	T	AT	benign
rs3752109	NP_932172	R	H	RH	benign
rs3752110	NP_932172	R	H	RH	benign
rs3752111	NP_932172	R	Q	RQ	benign
rs3752135	NP_201586	Y	S	YS	benign
rs3752135	NP_443729	Y	S	YS	possibly damaging
rs3752153	NP_066358	R	Q	RQ	benign
rs3752176	NP_065864	G	D	GD	benign
rs3752179	XP_371198	K	R	KR	benign
rs3752187	NP_038475	S	F	SF	benign
rs3752187	NP_690880	S	F	SF	benign
rs3752187	NP_690881	S	F	SF	benign
rs3752187	NP_690883	S	F	SF	benign
rs3752187	NP_690884	S	F	SF	benign
rs3752187	NP_690885	S	F	SF	benign
rs3752187	NP_690882	S	F	SF	possibly damaging
rs3752199	NP_065984	Q	H	QH	benign
rs3752220	NP_004137	R	G	RG	possibly damaging
rs3752232	NP_150651	T	A	TA	benign
rs3752232	NP_061985	T	A	TA	benign
rs3752233	NP_150651	R	H	RH	benign
rs3752233	NP_061985	R	H	RH	benign
rs3752239	NP_061985	N	T	NT	benign
rs3752239	NP_150651	N	T	NT	possibly damaging
rs3752246	NP_150651	A	G	AG	benign
rs3752246	NP_061985	A	G	AG	benign
rs3752289	NP_079131	P	L	PL	probably damaging
rs3752321	NP_078928	E	K	EK	benign
rs3752334	NP_056234	A	T	AT	benign
rs3752354	NP_940956	M	V	MV	benign
rs3752354	NP_071348	M	V	MV	benign
rs3752362	NP_005035	V	A	VA	benign

rs3752364	NP_689573	P	L	PL	benign
rs3752365	NP_689573	G	A	GA	possibly damaging
rs3752368	NP_570857	V	M	VM	benign
rs3752368	NP_570858	V	M	VM	benign
rs3752368	NP_002838	V	M	VM	benign
rs3752472	NP_004786	P	S	PS	probably damaging
rs3752472	NP_710150	P	S	PS	probably damaging
rs3752504	NP_733799	R	Q	RQ	benign
rs3752505	NP_733799	R	W	RW	probably damaging
rs3752506	NP_733799	G	S	GS	benign
rs3752506	NP_056518	G	S	GS	possibly damaging
rs3752516	NP_003276	G	S	GS	benign
rs3752536	NP_277050	T	A	TA	benign
rs3752566	NP_002935	R	H	RH	possibly damaging
rs3752579	NP_002281	L	H	LH	benign
rs3752630	NP_612350	C	G	CG	probably damaging
rs3752704	NP_065741	N	S	NS	benign
rs3752704	NP_060217	N	S	NS	benign
rs3752780	NP_079415	R	H	RH	benign
rs3752838	NP_055111	T	A	TA	benign
rs3752840	XP_371783	I	T	IT	benign
rs3752840	NP_775934	T	I	TI	benign
rs3752841	NP_775934	A	T	AT	benign
rs3752841	XP_371783	T	A	TA	benign
rs3752873	XP_376310	P	L	PL	benign
rs3753058	NP_000064	V	F	VF	possibly damaging
rs3753494	NP_000636	P	S	PS	probably damaging
rs3753494	NP_000637	P	S	PS	probably damaging
rs3753494	NP_000635	P	S	PS	probably damaging
rs3753565	NP_003283	S	N	SN	benign
rs3753952	NP_982284	P	L	PL	possibly damaging
rs3754112	NP_004249	N	S	NS	benign
rs3754274	NP_067056	R	K	RK	benign
rs3754413	NP_002212	A	T	AT	benign
rs3754414	NP_002212	S	P	SP	possibly damaging
rs3754415	NP_002212	R	H	RH	benign
rs3754416	NP_002212	P	L	PL	probably damaging
rs3754689	NP_002290	V	I	VI	benign
rs3754813	NP_003102	A	T	AT	benign
rs3755072	NP_060549	K	R	KR	benign
rs3755073	NP_060549	V	F	VF	benign
rs3755260	NP_002140	G	S	GS	probably damaging
rs3755260	NP_602293	G	S	GS	probably damaging
rs3755320	NP_061951	H	N	HN	benign
rs3755321	NP_061951	L	P	LP	possibly damaging
rs3755322	NP_061951	D	E	DE	benign



rs3755323	NP_061951	L	S	LS	benign
rs3755544	XP_371514	G	R	GR	benign
rs3755545	XP_371514	P	L	PL	probably damaging
rs3755652	NP_003606	K	E	KE	benign
rs3755955	NP_000194	R	Q	RQ	benign
rs3756065	NP_031377	T	A	TA	benign
rs3756275	NP_114159	I	V	IV	benign
rs3756293	NP_057424	S	A	SA	benign
rs3756323	NP_061754	Q	R	QR	benign
rs3756331	NP_061734	S	N	SN	benign
rs3756331	NP_114062	S	N	SN	possibly damaging
rs3756332	NP_114062	A	G	AG	possibly damaging
rs3756332	NP_061734	A	G	AG	possibly damaging
rs3756333	NP_114062	G	R	GR	possibly damaging
rs3756333	NP_061734	G	R	GR	possibly damaging
rs3756669	NP_689617	C	G	CG	probably damaging
rs3756672	NP_001360	R	W	RW	probably damaging
rs3756772	NP_002022	G	R	GR	benign
rs3756987	NP_114130	G	D	GD	benign
rs3757370	NP_064716	I	V	IV	benign
rs3758036	NP_005766	P	L	PL	probably damaging
rs3758037	NP_005766	D	H	DH	possibly damaging
rs3758122	NP_054828	I	T	IT	benign
rs3758383	NP_057279	A	G	AG	benign
rs3758387	NP_057279	I	V	IV	benign
rs3758388	NP_057279	H	L	HL	benign
rs3758390	NP_057279	I	V	IV	benign
rs3758449	NP_059129	S	N	SN	possibly damaging
rs3758458	NP_062565	E	Q	EQ	benign
rs3758459	NP_062565	D	N	DN	benign
rs3758526	NP_071896	E	A	EA	benign
rs3758581	NP_000760	I	V	IV	benign
rs3758805	NP_005779	L	V	LV	benign
rs3758938	NP_005986	K	T	KT	possibly damaging
rs3759122	XP_495916	K	N	KN	benign
rs3759244	NP_795367	F	L	FL	benign
rs3759245	NP_795367	R	C	RC	possibly damaging
rs3759246	NP_795366	R	T	RT	benign
rs3759246	NP_795367	R	T	RT	probably damaging
rs3759251	NP_076408	T	S	TS	benign
rs3759259	NP_060893	G	S	GS	benign
rs3759295	XP_495919	H	P	HP	probably damaging
rs3759601	NP_060506	E	Q	EQ	benign
rs3759786	NP_060328	A	S	AS	benign
rs3759787	NP_060328	L	P	LP	benign
rs3759871	NP_079413	S	F	SF	possibly damaging

rs3759872	NP_079413	C	Y	CY	possibly damaging
rs3759873	NP_079413	I	V	IV	benign
rs3759875	NP_079413	Y	C	YC	probably damaging
rs3759880	NP_542783	A	V	AV	benign
rs3760128	NP_775818	L	P	LP	possibly damaging
rs3760299	NP_065703	Y	H	YH	benign
rs3760317	NP_060597	D	N	DN	possibly damaging
rs3760413	NP_689676	D	E	DE	benign
rs3760436	NP_001363	R	W	RW	probably damaging
rs3760436	NP_004653	R	W	RW	probably damaging
rs3760454	NP_060898	R	Q	RQ	benign
rs3760460	NP_003684	G	V	GV	probably damaging
rs3760460	NP_663327	G	V	GV	probably damaging
rs3760791	NP_060743	G	V	GV	probably damaging
rs3760849	NP_071386	K	R	KR	benign
rs3761097	NP_067055	R	Q	RQ	benign
rs3761185	NP_848586	S	Y	SY	benign
rs3761472	NP_056195	D	G	DG	possibly damaging
rs3761505	XP_050478	I	T	IT	benign
rs3761506	XP_050478	R	H	RH	benign
rs3761568	XP_377014	M	V	MV	benign
rs3761592	XP_172801	I	F	IF	benign
rs3761645	NP_071763	D	N	DN	benign
rs3761645	NP_660095	D	N	DN	benign
rs3761698	NP_006334	T	I	TI	benign
rs3761863	XP_058513	M	T	MT	benign
rs3761966	NP_060899	R	C	RC	possibly damaging
rs3761967	NP_060899	V	M	VM	benign
rs3762001	NP_114409	H	Y	HY	possibly damaging
rs3762002	NP_114409	M	V	MV	benign
rs3762006	XP_376540	R	G	RG	probably damaging
rs3762175	XP_498469	I	M	IM	benign
rs3762271	NP_060606	L	I	LI	benign
rs3762425	XP_375718	T	S	TS	benign
rs3762448	NP_005790	R	H	RH	benign
rs3762448	NP_795352	R	H	RH	benign
rs3762448	NP_795353	R	H	RH	benign
rs3762568	NP_055744	S	N	SN	benign
rs3762578	NP_055483	V	I	VI	benign
rs3762579	NP_055483	R	Q	RQ	benign
rs3762648	NP_060659	V	I	VI	benign
rs3762685	NP_065086	S	N	SN	benign
rs3762696	NP_055244	D	E	DE	benign
rs3762697	NP_055244	M	V	MV	possibly damaging
rs3762739	NP_689886	S	C	SC	benign
rs3762836	NP_004889	H	R	HR	benign

rs3762891	NP_619643	S	C	SC	possibly damaging
rs3763118	NP_056071	V	M	VM	possibly damaging
rs3763611	NP_620133	S	P	SP	benign
rs3763695	NP_937781	V	A	VA	benign
rs3763695	NP_056305	V	A	VA	benign
rs3763978	NP_004607	G	A	GA	possibly damaging
rs3763980	NP_004722	T	S	TS	benign
rs3764002	XP_033113	T	I	TI	possibly damaging
rs3764022	NP_037401	L	V	LV	benign
rs3764034	NP_079235	L	F	LF	benign
rs3764147	NP_694950	V	I	VI	benign
rs3764187	NP_003913	L	F	LF	benign
rs3764340	NP_061030	P	A	PA	probably damaging
rs3764378	NP_061869	D	N	DN	benign
rs3764418	NP_057070	V	M	VM	benign
rs3764421	NP_079133	N	H	NH	benign
rs3764424	NP_116254	P	L	PL	probably damaging
rs3764507	XP_058931	A	V	AV	benign
rs3764508	XP_058931	G	S	GS	possibly damaging
rs3764522	NP_115812	L	V	LV	benign
rs3764537	XP_030892	H	R	HR	possibly damaging
rs3764539	NP_067645	E	K	EK	benign
rs3764548	NP_009078	C	R	CR	probably damaging
rs3764565	XP_029084	K	R	KR	benign
rs3764609	NP_071907	Q	R	QR	benign
rs3764609	NP_690009	Q	R	QR	benign
rs3764609	NP_690008	Q	R	QR	benign
rs3764609	NP_690007	Q	R	QR	benign
rs3764626	NP_115809	A	V	AV	benign
rs3764633	NP_116205	R	W	RW	benign
rs3764645	NP_150651	E	G	EG	benign
rs3764645	NP_061985	E	G	EG	possibly damaging
rs3764647	NP_061985	H	R	HR	benign
rs3764647	NP_150651	H	R	HR	possibly damaging
rs3764656	NP_954672	D	N	DN	benign
rs3764656	NP_057669	D	N	DN	benign
rs3764690	NP_955473	N	S	NS	benign
rs3764698	NP_065069	D	G	DG	possibly damaging
rs3764738	NP_078928	V	D	VD	benign
rs3764740	NP_078928	T	M	TM	benign
rs3764758	XP_033173	R	C	RC	possibly damaging
rs3764779	NP_997708	Q	E	QE	benign
rs3764850	NP_005954	Q	H	QH	benign
rs3764867	NP_000864	R	Q	RQ	benign
rs3764872	NP_002333	G	R	GR	benign
rs3764880	NP_619542	M	V	MV	benign

rs3764897	NP_002654	G	S	GS	benign
rs3764944	NP_059447	R	Q	RQ	possibly damaging
rs3764945	NP_054740	A	T	AT	benign
rs3764990	NP_659458	P	S	PS	probably damaging
rs3765004	NP_660350	K	T	KT	benign
rs3765038	NP_579917	R	Q	RQ	possibly damaging
rs3765038	NP_579922	R	Q	RQ	possibly damaging
rs3765038	NP_579919	R	Q	RQ	possibly damaging
rs3765083	NP_073573	V	I	VI	benign
rs3765101	NP_055704	Q	H	QH	possibly damaging
rs3765124	NP_055294	N	S	NS	benign
rs3765148	NP_055290	G	R	GR	possibly damaging
rs3765163	NP_004309	G	R	GR	possibly damaging
rs3765163	NP_115857	G	R	GR	possibly damaging
rs3765163	NP_115855	G	R	GR	possibly damaging
rs3765201	NP_004124	M	R	MR	probably damaging
rs3765263	NP_071375	K	R	KR	benign
rs3765310	NP_733936	P	L	PL	possibly damaging
rs3765310	NP_001071	P	L	PL	probably damaging
rs3765407	NP_361013	K	Q	KQ	benign
rs3765409	NP_361013	G	S	GS	benign
rs3765467	NP_002053	R	Q	RQ	benign
rs3765519	NP_877428	G	W	GW	probably damaging
rs3765519	NP_060988	G	W	GW	probably damaging
rs3765534	NP_005836	E	K	EK	benign
rs3765571	NP_002851	S	Y	SY	benign
rs3765620	NP_002415	T	I	TI	benign
rs3765623	NP_003794	D	N	DN	benign
rs3766158	NP_060492	R	Q	RQ	benign
rs3766160	NP_056933	N	D	ND	benign
rs3766163	NP_006502	F	L	FL	probably damaging
rs3766317	NP_003026	A	V	AV	benign
rs3766497	XP_378184	R	L	RL	possibly damaging
rs3766498	XP_378184	P	L	PL	probably damaging
rs3766664	NP_055627	T	I	TI	possibly damaging
rs3766870	NP_001026	E	D	ED	benign
rs3766871	NP_001026	G	S	GS	benign
rs3767261	NP_057205	R	G	RG	possibly damaging
rs3767607	NP_002548	V	M	VM	possibly damaging
rs3767608	NP_002548	P	S	PS	possibly damaging
rs3767609	NP_002548	S	G	SG	benign
rs3767610	NP_002548	H	Y	HY	possibly damaging
rs3768067	NP_000072	H	R	HR	probably damaging
rs3768235	NP_003912	G	E	GE	benign
rs3768249	NP_004379	D	Y	DY	possibly damaging
rs3768721	NP_659198	G	R	GR	possibly damaging

rs3769148	NP_057737	L	S	LS	possibly damaging
rs3769838	NP_004501	M	V	MV	benign
rs3769838	NP_536349	M	V	MV	benign
rs3769838	NP_004500	M	V	MV	benign
rs3769969	NP_004171	R	Q	RQ	benign
rs3770213	XP_376172	L	H	LH	benign
rs3770214	XP_376172	S	G	SG	benign
rs3770436	NP_056345	S	F	SF	benign
rs3770655	NP_061875	P	S	PS	benign
rs3770656	NP_061875	P	L	PL	probably damaging
rs3770657	NP_061875	S	N	SN	benign
rs3770719	NP_060127	I	V	IV	benign
rs3770739	NP_060127	N	S	NS	benign
rs3770740	NP_060127	E	K	EK	benign
rs3771333	NP_060880	E	D	ED	benign
rs3772119	NP_006587	V	I	VI	benign
rs3772119	NP_955452	V	I	VI	benign
rs3772165	NP_060545	R	Q	RQ	benign
rs3772173	NP_005405	V	A	VA	benign
rs3772219	NP_062455	L	V	LV	benign
rs3772809	NP_000364	I	V	IV	benign
rs3772986	NP_004935	R	H	RH	benign
rs3774266	NP_001870	G	R	GR	probably damaging
rs3774395	NP_000720	R	W	RW	probably damaging
rs3774729	NP_000324	V	M	VM	benign
rs3775091	NP_149106	E	Q	EQ	benign
rs3775291	NP_003256	L	F	LF	benign
rs3775481	NP_031377	C	Y	CY	benign
rs3776070	NP_000103	T	S	TS	benign
rs3776096	NP_061762	V	I	VI	benign
rs3776097	NP_061762	P	L	PL	possibly damaging
rs3776099	NP_061761	A	T	AT	possibly damaging
rs3777084	NP_060255	S	L	SL	possibly damaging
rs3778005	NP_001554	S	N	SN	benign
rs3778142	NP_000417	Y	H	YH	benign
rs3778922	NP_071370	D	Y	DY	probably damaging
rs3779062	NP_004751	E	Q	EQ	benign
rs3779234	NP_071768	T	A	TA	benign
rs3779536	NP_065102	A	S	AS	benign
rs3779620	NP_060962	N	S	NS	benign
rs3779725	NP_079302	G	R	GR	possibly damaging
rs3779727	NP_079302	N	S	NS	benign
rs3780220	NP_001113	L	F	LF	benign
rs3780548	XP_376895	C	R	CR	probably damaging
rs3780679	NP_060719	R	T	RT	benign
rs3781365	XP_374831	R	Q	RQ	benign

rs3781408	NP_073713	D	N	DN	benign
rs3781409	NP_073713	V	M	VM	benign
rs3781411	NP_073713	R	Q	RQ	benign
rs3781412	NP_073713	L	P	LP	possibly damaging
rs3781986	NP_057174	H	R	HR	probably damaging
rs3782369	NP_877499	I	M	IM	benign
rs3782489	NP_778253	T	M	TM	possibly damaging
rs3783082	NP_061911	N	K	NK	benign
rs3783167	NP_005821	N	D	ND	benign
rs3783531	NP_000566	R	Q	RQ	possibly damaging
rs3783581	NP_000566	D	N	DN	possibly damaging
rs3783611	NP_001069	S	F	SF	possibly damaging
rs3783612	NP_001069	T	A	TA	benign
rs3783613	NP_542413	G	A	GA	benign
rs3783613	NP_001069	G	A	GA	possibly damaging
rs3783615	NP_542413	I	L	IL	benign
rs3783615	NP_001069	I	L	IL	benign
rs3783696	NP_055564	S	N	SN	benign
rs3783697	NP_055564	D	G	DG	possibly damaging
rs3784543	NP_031390	D	N	DN	possibly damaging
rs3784587	NP_002411	R	G	RG	possibly damaging
rs3784588	NP_002411	V	I	VI	benign
rs3784634	NP_060154	R	K	RK	benign
rs3784635	NP_060154	I	V	IV	benign
rs3785522	NP_005984	E	G	EG	probably damaging
rs3786349	NP_059982	S	F	SF	benign
rs3786417	NP_036321	T	M	TM	benign
rs3786417	NP_722452	T	M	TM	benign
rs3786417	NP_722454	T	M	TM	benign
rs3786417	NP_722453	T	M	TM	benign
rs3786490	NP_060770	T	I	TI	benign
rs3787375	NP_004789	G	E	GE	benign
rs3789683	NP_001984	G	E	GE	benign
rs3790267	NP_065740	V	I	VI	benign
rs3790525	NP_015563	Q	P	QP	possibly damaging
rs3790525	NP_015562	Q	P	QP	possibly damaging
rs3790525	NP_004790	Q	P	QP	possibly damaging
rs3790549	NP_056651	A	P	AP	benign
rs3791251	NP_002967	V	L	VL	benign
rs3792234	NP_758515	Q	H	QH	benign
rs3792234	NP_006864	Q	H	QH	benign
rs3792245	NP_751946	A	V	AV	benign
rs3792245	NP_006863	A	V	AV	benign
rs3792268	NP_075572	P	T	PT	possibly damaging
rs3792268	NP_075573	P	T	PT	possibly damaging
rs3792268	NP_075574	P	T	PT	possibly damaging

rs3792268	NP_075575	P	T	PT	possibly damaging
rs3792268	NP_075571	P	T	PT	possibly damaging
rs3792594	NP_037506	A	T	AT	benign
rs3792646	NP_000578	K	Q	KQ	benign
rs3792683	NP_000244	N	S	NS	benign
rs3792687	NP_006086	T	M	TM	possibly damaging
rs3793405	NP_062825	G	R	GR	probably damaging
rs3793524	NP_002820	A	P	AP	probably damaging
rs3793706	NP_937781	L	F	LF	benign
rs3793706	NP_056305	L	F	LF	benign
rs3793733	NP_061172	A	T	AT	benign
rs3793744	NP_001767	V	I	VI	benign
rs3793771	NP_003384	C	S	CS	probably damaging
rs3793795	NP_065574	A	T	AT	benign
rs3793795	NP_066266	A	T	AT	benign
rs3793795	NP_066265	A	T	AT	benign
rs3793795	NP_066264	A	T	AT	benign
rs3793988	XP_497311	T	M	TM	possibly damaging
rs3794084	NP_055447	D	E	DE	benign
rs3794153	NP_005409	K	N	KN	benign
rs3794153	NP_998783	K	N	KN	benign
rs3794255	XP_370702	E	K	EK	benign
rs3794873	NP_031371	S	G	SG	benign
rs3795243	NP_071741	M	I	MI	benign
rs3795251	NP_543144	S	N	SN	benign
rs3795263	NP_536356	G	R	GR	possibly damaging
rs3795299	NP_067081	R	G	RG	benign
rs3795322	NP_110439	R	C	RC	possibly damaging
rs3795331	NP_064510	V	M	VM	benign
rs3795339	NP_002232	R	H	RH	benign
rs3795374	NP_115811	E	D	ED	benign
rs3795375	NP_115811	V	I	VI	benign
rs3795393	NP_002953	D	G	DG	benign
rs3795424	NP_110413	E	A	EA	possibly damaging
rs3795498	NP_114406	A	T	AT	benign
rs3795504	XP_046531	L	F	LF	benign
rs3795535	NP_060368	G	S	GS	benign
rs3795564	XP_046808	T	M	TM	benign
rs3795594	NP_004758	P	A	PA	benign
rs3795595	NP_004758	G	D	GD	benign
rs3795605	XP_043739	A	T	AT	benign
rs3795634	NP_112596	I	V	IV	benign
rs3795686	NP_073615	S	N	SN	benign
rs3795737	NP_112242	N	S	NS	benign
rs3795832	NP_056165	R	H	RH	benign
rs3795842	NP_705834	M	T	MT	benign

rs3795875	NP_006207	I	M	IM	benign
rs3795958	NP_659475	K	E	KE	benign
rs3795969	NP_689600	C	S	CS	benign
rs3796021	NP_064602	P	L	PL	benign
rs3796033	NP_072174	T	I	TI	benign
rs3796093	NP_872307	T	A	TA	benign
rs3796097	NP_690005	A	T	AT	benign
rs3796110	NP_115917	G	R	GR	possibly damaging
rs3796118	NP_057636	D	V	DV	possibly damaging
rs3796118	NP_060314	D	V	DV	probably damaging
rs3796119	NP_057636	E	K	EK	benign
rs3796119	NP_060314	E	K	EK	benign
rs3796129	NP_689830	P	Q	PQ	benign
rs3796130	NP_000165	A	T	AT	benign
rs3796139	XP_290351	M	V	MV	probably damaging
rs3796164	NP_444254	V	A	VA	benign
rs3796164	NP_444255	V	A	VA	benign
rs3796164	NP_444256	V	A	VA	benign
rs3796164	NP_444257	V	A	VA	benign
rs3796164	NP_444253	V	A	VA	benign
rs3796185	XP_047357	V	A	VA	benign
rs3796191	NP_036322	L	P	LP	benign
rs3796191	NP_658989	L	P	LP	benign
rs3796241	NP_777367	K	I	KI	possibly damaging
rs3796277	NP_659474	T	I	TI	possibly damaging
rs3796360	XP_291085	V	M	VM	benign
rs3796375	NP_078789	A	V	AV	benign
rs3796381	NP_891550	E	Q	EQ	benign
rs3796504	NP_003028	P	T	PT	probably damaging
rs3796508	NP_006059	V	M	VM	benign
rs3796529	NP_005603	P	L	PL	benign
rs3796543	NP_861522	K	R	KR	benign
rs3796544	NP_861522	A	V	AV	benign
rs3796545	NP_861522	V	I	VI	benign
rs3796546	XP_044178	R	Q	RQ	benign
rs3796547	XP_044178	S	L	SL	benign
rs3796622	NP_998778	Q	R	QR	benign
rs3796623	NP_998778	G	S	GS	benign
rs3796703	NP_114095	P	L	PL	probably damaging
rs3796704	NP_114095	R	Q	RQ	benign
rs3796705	NP_114095	D	G	DG	possibly damaging
rs3796706	NP_149113	K	Q	KQ	benign
rs3797036	NP_057295	N	K	NK	benign
rs3797036	NP_055748	N	K	NK	benign
rs3797055	NP_115796	E	K	EK	benign
rs3797055	NP_002578	E	K	EK	benign



rs3797713	NP_060255	H	Y	HY	possibly damaging
rs3797799	NP_005566	S	P	SP	possibly damaging
rs3797902	NP_115665	R	M	RM	benign
rs3797903	NP_115665	G	E	GE	possibly damaging
rs3799268	NP_003634	D	N	DN	benign
rs3799277	XP_166443	T	A	TA	benign
rs3799831	NP_055269	N	I	NI	probably damaging
rs3800294	XP_166453	G	A	GA	benign
rs3800297	XP_166453	K	R	KR	benign
rs3800298	XP_166453	L	S	LS	benign
rs3800324	NP_115896	G	E	GE	possibly damaging
rs3800325	NP_115896	Q	E	QE	benign
rs3800326	NP_115896	P	L	PL	probably damaging
rs3800381	NP_689966	S	L	SL	possibly damaging
rs3800544	NP_872358	R	H	RH	possibly damaging
rs3800567	XP_379520	P	L	PL	probably damaging
rs3800791	NP_543147	R	C	RC	possibly damaging
rs3800821	XP_380121	Q	H	QH	benign
rs3800822	XP_380121	T	A	TA	benign
rs3800823	XP_380121	Q	K	QK	benign
rs3800824	XP_380121	G	R	GR	possibly damaging
rs3800855	NP_570857	S	T	ST	benign
rs3800855	NP_570858	S	T	ST	benign
rs3800855	NP_002838	S	T	ST	benign
rs3800939	NP_005815	K	E	KE	benign
rs3800952	NP_078913	R	Q	RQ	benign
rs3800962	NP_787082	E	D	ED	benign
rs3801048	XP_376567	E	Q	EQ	benign
rs3801237	NP_112557	R	H	RH	possibly damaging
rs3801237	NP_003709	R	H	RH	possibly damaging
rs3801295	NP_055731	D	N	DN	benign
rs3801979	NP_733787	E	D	ED	benign
rs3802146	NP_076418	G	S	GS	benign
rs3802163	NP_038460	H	Y	HY	possibly damaging
rs3802204	NP_110415	D	G	DG	possibly damaging
rs3802205	NP_110415	V	A	VA	benign
rs3802264	NP_055758	G	S	GS	possibly damaging
rs3802384	NP_149077	V	I	VI	benign
rs3802415	XP_497021	L	H	LH	probably damaging
rs3802490	NP_149040	H	P	HP	benign
rs3802526	NP_116233	P	A	PA	possibly damaging
rs3802707	NP_071407	F	V	FV	benign
rs3802711	NP_071407	R	Q	RQ	benign
rs3802757	NP_689525	H	Q	HQ	benign
rs3802771	XP_374922	E	K	EK	benign
rs3802773	XP_374922	G	E	GE	possibly damaging

rs3802774	XP_374922	L	R	LR	benign
rs3802799	NP_660093	E	D	ED	benign
rs3802799	NP_892009	E	D	ED	benign
rs3802800	NP_660093	P	A	PA	possibly damaging
rs3802800	NP_892009	P	A	PA	possibly damaging
rs3802813	NP_683708	S	N	SN	benign
rs3802813	NP_443119	S	N	SN	benign
rs3802959	XP_495876	Q	R	QR	benign
rs3802989	NP_115885	R	C	RC	possibly damaging
rs3802998	NP_115721	E	Q	EQ	benign
rs3803002	NP_982270	V	M	VM	benign
rs3803002	NP_062570	V	M	VM	benign
rs3803002	NP_982269	V	M	VM	benign
rs3803036	NP_570897	R	K	RK	benign
rs3803185	NP_612459	C	R	CR	probably damaging
rs3803295	NP_620145	V	M	VM	benign
rs3803311	NP_071934	T	M	TM	benign
rs3803339	NP_005648	I	V	IV	benign
rs3803347	XP_031689	R	H	RH	benign
rs3803348	XP_031689	T	A	TA	benign
rs3803357	NP_055767	K	Q	KQ	benign
rs3803403	NP_065829	T	S	TS	benign
rs3803405	NP_065829	G	E	GE	possibly damaging
rs3803412	NP_588616	D	G	DG	benign
rs3803414	NP_115821	F	L	FL	benign
rs3803430	NP_000684	M	V	MV	benign
rs3803460	NP_073752	V	L	VL	benign
rs3803466	NP_006706	V	I	VI	benign
rs3803467	NP_006706	V	M	VM	benign
rs3803530	NP_940927	S	I	SI	benign
rs3803568	NP_068591	R	Q	RQ	benign
rs3803641	NP_597997	P	S	PS	probably damaging
rs3803641	NP_758857	P	S	PS	probably damaging
rs3803646	NP_036345	C	G	CG	probably damaging
rs3803650	NP_115554	D	G	DG	possibly damaging
rs3803703	NP_001275	S	N	SN	benign
rs3803704	NP_060818	N	S	NS	benign
rs3803716	NP_055309	P	S	PS	benign
rs3803728	XP_496245	R	W	RW	probably damaging
rs3803739	NP_071349	S	G	SG	benign
rs3803752	XP_064190	S	N	SN	benign
rs3803763	NP_109590	G	A	GA	benign
rs3803764	XP_045581	R	W	RW	possibly damaging
rs3803784	NP_060198	A	T	AT	benign
rs3803799	NP_003800	R	Q	RQ	benign
rs3803800	NP_742084	N	S	NS	benign

rs3803800	NP_742085	N	S	NS	benign
rs3803800	NP_003799	N	S	NS	benign
rs3803800	NP_742086	N	S	NS	benign
rs3803824	NP_115948	V	A	VA	benign
rs3803860	NP_689483	Y	C	YC	probably damaging
rs3803981	NP_061866	S	T	ST	benign
rs3804007	NP_981950	S	Y	SY	benign
rs3804010	NP_853652	S	R	SR	benign
rs3804076	NP_066306	M	T	MT	probably damaging
rs3804083	NP_110385	P	T	PT	benign
rs3804097	NP_113676	I	V	IV	benign
rs3804505	NP_060570	R	H	RH	benign
rs3804506	NP_060570	R	W	RW	possibly damaging
rs3804583	NP_064627	L	M	LM	benign
rs3804769	NP_004724	D	G	DG	benign
rs3805118	NP_002649	R	L	RL	possibly damaging
rs3805466	NP_061165	S	L	SL	possibly damaging
rs3806339	NP_443174	T	M	TM	possibly damaging
rs3806633	NP_065729	E	K	EK	benign
rs3806873	XP_029101	T	A	TA	benign
rs3806874	XP_029101	G	D	GD	possibly damaging
rs3806995	NP_067547	L	I	LI	benign
rs3807068	NP_078774	K	N	KN	benign
rs3807069	NP_078774	C	Y	CY	possibly damaging
rs3807153	NP_570856	M	T	MT	benign
rs3807590	NP_073585	E	K	EK	benign
rs3808536	XP_114618	R	K	RK	benign
rs3808553	NP_003497	M	L	ML	benign
rs3809019	NP_071405	T	I	TI	benign
rs3809045	NP_733840	R	L	RL	possibly damaging
rs3809045	NP_078894	R	L	RL	possibly damaging
rs3809199	NP_085143	V	M	VM	benign
rs3809273	NP_653272	G	R	GR	benign
rs3809371	NP_116202	V	M	VM	benign
rs3809429	NP_115511	Q	H	QH	benign
rs3809482	NP_689668	R	G	RG	benign
rs3809529	NP_149972	P	L	PL	probably damaging
rs3809530	NP_149972	V	M	VM	benign
rs3809553	NP_078887	E	Q	EQ	benign
rs3809611	NP_115645	L	P	LP	probably damaging
rs3809683	NP_078951	I	V	IV	benign
rs3809718	NP_848613	A	V	AV	benign
rs3809727	NP_113644	G	A	GA	possibly damaging
rs3809806	NP_114171	A	V	AV	benign
rs3809813	NP_115818	Q	H	QH	possibly damaging
rs3809835	NP_112497	A	T	AT	benign

rs3809849	NP_055335	Q	E	QE	benign
rs3809870	NP_689561	M	V	MV	possibly damaging
rs3809875	NP_443160	P	R	PR	probably damaging
rs3809917	NP_064617	G	S	GS	benign
rs3809970	NP_443179	G	S	GS	benign
rs3809972	NP_443179	R	T	RT	benign
rs3809973	NP_443179	K	N	KN	benign
rs3809974	NP_443179	S	L	SL	benign
rs3809975	NP_443179	S	T	ST	benign
rs3809976	NP_443179	V	L	VL	benign
rs3809977	NP_443179	P	H	PH	probably damaging
rs3809982	NP_443179	P	S	PS	benign
rs3809983	NP_443179	A	S	AS	benign
rs3809984	NP_443179	R	S	RS	benign
rs3810130	NP_689688	A	E	AE	benign
rs3810130	NP_116217	E	A	EA	possibly damaging
rs3810144	NP_940880	V	L	VL	benign
rs3810150	NP_597701	P	L	PL	probably damaging
rs3810151	NP_597701	V	A	VA	benign
rs3810201	NP_659483	A	T	AT	benign
rs3810206	NP_598399	A	V	AV	benign
rs3810206	NP_116009	A	V	AV	benign
rs3810343	NP_056952	A	V	AV	benign
rs3810343	NP_055326	V	A	VA	benign
rs3810481	NP_208384	T	M	TM	possibly damaging
rs3810483	NP_208384	Q	E	QE	benign
rs3810485	NP_208384	P	L	PL	probably damaging
rs3810486	NP_208384	L	R	LR	benign
rs3810487	NP_208384	R	K	RK	benign
rs3810510	NP_065166	A	T	AT	benign
rs3810537	XP_030559	D	G	DG	probably damaging
rs3810548	NP_005551	M	T	MT	benign
rs3810553	NP_543023	D	N	DN	benign
rs3810574	NP_071927	N	S	NS	benign
rs3810651	NP_061028	I	F	IF	benign
rs3810655	NP_443158	N	H	NH	benign
rs3810710	NP_000275	M	L	ML	probably damaging
rs3810713	XP_210062	S	T	ST	benign
rs3810813	NP_115820	S	F	SF	benign
rs3810818	NP_612449	A	E	AE	benign
rs3810950	NP_065574	A	T	AT	benign
rs3810950	NP_066266	A	T	AT	benign
rs3810950	NP_066265	A	T	AT	benign
rs3810950	NP_066264	A	T	AT	benign
rs3810960	NP_001100	P	L	PL	benign
rs3810964	NP_689856	E	G	EG	possibly damaging

rs3810964	NP_208383	E	G	EG	possibly damaging
rs3811039	NP_689728	E	D	ED	benign
rs3811040	NP_689728	L	S	LS	benign
rs3811046	NP_775296	G	V	GV	benign
rs3811046	NP_055254	G	V	GV	benign
rs3811047	NP_775296	T	A	TA	benign
rs3811047	NP_055254	T	A	TA	benign
rs3811069	NP_006572	A	T	AT	benign
rs3811102	NP_115521	H	Q	HQ	benign
rs3811103	NP_115521	S	P	SP	possibly damaging
rs3811182	NP_055792	I	M	IM	benign
rs3811188	NP_851312	G	V	GV	probably damaging
rs3811188	NP_851313	G	V	GV	probably damaging
rs3811188	NP_851824	G	V	GV	probably damaging
rs3811188	NP_848026	G	V	GV	probably damaging
rs3811348	NP_054781	R	Q	RQ	benign
rs3811363	NP_077311	R	Q	RQ	benign
rs3811381	NP_000642	R	P	RP	benign
rs3811381	NP_000564	P	R	PR	possibly damaging
rs3811428	NP_443166	V	M	VM	benign
rs3811428	NP_599152	V	M	VM	benign
rs3811444	NP_056246	T	M	TM	benign
rs3811473	XP_375851	V	G	VG	benign
rs3811474	XP_375851	K	E	KE	benign
rs3811514	XP_051221	K	E	KE	benign
rs3811515	XP_051221	H	Q	HQ	benign
rs3811553	NP_878915	R	W	RW	possibly damaging
rs3811553	NP_079520	R	W	RW	possibly damaging
rs3811635	NP_006334	I	V	IV	benign
rs3811679	XP_114301	I	T	IT	benign
rs3811740	NP_055079	T	S	TS	benign
rs3811750	NP_115512	R	Q	RQ	possibly damaging
rs3811765	XP_496704	A	T	AT	benign
rs3811833	XP_034262	R	C	RC	possibly damaging
rs3811987	NP_057675	P	S	PS	possibly damaging
rs3811993	NP_000802	T	M	TM	benign
rs3812030	NP_115976	M	K	MK	benign
rs3812031	NP_115976	D	V	DV	probably damaging
rs3812054	NP_115822	V	I	VI	benign
rs3812082	XP_038920	R	Q	RQ	benign
rs3812086	NP_071916	S	N	SN	benign
rs3812131	XP_048070	I	S	IS	benign
rs3812138	NP_002517	T	A	TA	benign
rs3812153	NP_073563	M	V	MV	benign
rs3812315	NP_116570	D	N	DN	benign
rs3812315	NP_116571	D	N	DN	benign

rs3812315	NP_116572	D	N	DN	benign
rs3812315	NP_127461	D	N	DN	benign
rs3812315	NP_116569	D	N	DN	benign
rs3812316	NP_116570	Q	H	QH	benign
rs3812316	NP_116571	Q	H	QH	benign
rs3812316	NP_116572	Q	H	QH	benign
rs3812316	NP_127461	Q	H	QH	benign
rs3812316	NP_116569	Q	H	QH	benign
rs3812404	XP_377995	T	A	TA	benign
rs3812405	XP_377995	R	C	RC	possibly damaging
rs3812408	NP_005223	A	T	AT	benign
rs3812447	NP_115754	A	V	AV	benign
rs3812475	NP_060426	W	R	WR	benign
rs3812499	NP_689499	P	L	PL	probably damaging
rs3812577	NP_006634	R	Q	RQ	benign
rs3812582	XP_498426	D	N	DN	benign
rs3812583	XP_498426	G	A	GA	benign
rs3812594	XP_088459	R	C	RC	possibly damaging
rs3812597	NP_060087	A	S	AS	benign
rs3812619	NP_009196	R	Q	RQ	benign
rs3812629	NP_079151	P	L	PL	probably damaging
rs3812645	XP_043613	M	V	MV	possibly damaging
rs3812762	NP_005409	D	E	DE	benign
rs3812762	NP_998783	D	E	DE	benign
rs3812813	NP_115523	A	T	AT	benign
rs3812871	NP_073754	M	V	MV	benign
rs3812874	NP_073754	S	R	SR	benign
rs3812882	NP_065802	A	T	AT	benign
rs3812883	NP_065802	C	S	CS	probably damaging
rs3813012	NP_660151	G	D	GD	possibly damaging
rs3813020	NP_787097	H	Y	HY	benign
rs3813049	NP_114165	P	L	PL	probably damaging
rs3813050	NP_114165	I	T	IT	benign
rs3813135	NP_443122	T	A	TA	benign
rs3813173	NP_116751	P	L	PL	probably damaging
rs3813173	NP_116750	P	L	PL	probably damaging
rs3813174	NP_116751	G	R	GR	possibly damaging
rs3813174	NP_116750	G	R	GR	possibly damaging
rs3813188	XP_372195	T	N	TN	benign
rs3813526	XP_035497	S	P	SP	benign
rs3813535	NP_149095	S	P	SP	benign
rs3813536	NP_149095	R	H	RH	benign
rs3813593	NP_037371	A	T	AT	benign
rs3813609	NP_859071	V	L	VL	benign
rs3813616	NP_057656	R	H	RH	benign
rs3813616	NP_036607	R	H	RH	benign

rs3813636	NP_115502	L	R	LR	benign
rs3813671	NP_004376	T	A	TA	benign
rs3813744	NP_005760	H	Q	HQ	possibly damaging
rs3813758	NP_071445	R	C	RC	benign
rs3813768	NP_057197	G	A	GA	benign
rs3813773	NP_115823	G	A	GA	benign
rs3813795	NP_116261	Q	R	QR	benign
rs3813832	NP_588611	H	R	HR	benign
rs3813891	XP_029805	R	H	RH	possibly damaging
rs3813907	NP_612392	I	M	IM	benign
rs3813922	NP_848560	P	H	PH	probably damaging
rs3814160	NP_694579	P	S	PS	possibly damaging
rs3814165	XP_167709	P	S	PS	benign
rs3814166	XP_167709	G	S	GS	possibly damaging
rs3814171	NP_006405	I	V	IV	benign
rs3814171	NP_892117	I	V	IV	benign
rs3814182	NP_115967	R	S	RS	possibly damaging
rs3814193	XP_495796	R	W	RW	possibly damaging
rs3814196	XP_374765	V	M	VM	benign
rs3814211	NP_056428	S	G	SG	benign
rs3814226	XP_495847	R	Q	RQ	benign
rs3814228	XP_495847	N	H	NH	benign
rs3814278	XP_041162	E	K	EK	benign
rs3814281	XP_058720	R	H	RH	benign
rs3814290	NP_870998	D	N	DN	benign
rs3814291	NP_112219	R	Q	RQ	benign
rs3814299	XP_378901	S	L	SL	probably damaging
rs3814300	XP_378901	D	N	DN	possibly damaging
rs3814301	NP_057274	T	I	TI	benign
rs3814400	NP_150279	G	R	GR	possibly damaging
rs3814404	NP_150279	P	S	PS	benign
rs3814405	NP_150279	Q	H	QH	benign
rs3814416	XP_291111	V	G	VG	benign
rs3814422	NP_079225	H	D	HD	benign
rs3814519	NP_002188	A	D	AD	benign
rs3814596	NP_055704	F	S	FS	probably damaging
rs3814621	NP_055568	S	P	SP	benign
rs3814741	NP_004283	A	S	AS	benign
rs3814762	NP_113621	V	M	VM	benign
rs3814839	XP_029353	S	C	SC	benign
rs3814848	NP_071337	G	R	GR	possibly damaging
rs3814874	XP_027237	V	I	VI	benign
rs3814882	NP_057235	R	W	RW	possibly damaging
rs3814995	NP_004637	E	K	EK	benign
rs3815045	NP_037533	H	Y	HY	benign
rs3815308	NP_115871	G	S	GS	benign

rs3815354	NP_003635	D	H	DH	possibly damaging
rs3815354	NP_958836	D	H	DH	possibly damaging
rs3815354	NP_958839	D	H	DH	possibly damaging
rs3815456	NP_057170	A	T	AT	benign
rs3815460	NP_851938	S	C	SC	benign
rs3815460	NP_851937	S	C	SC	possibly damaging
rs3815655	NP_057419	P	S	PS	possibly damaging
rs3815682	NP_085139	A	S	AS	benign
rs3815708	NP_085079	A	S	AS	benign
rs3815708	NP_000755	A	S	AS	benign
rs3815710	NP_085079	L	R	LR	benign
rs3815710	NP_000755	L	R	LR	possibly damaging
rs3815711	NP_085079	A	V	AV	benign
rs3815711	NP_000755	A	V	AV	benign
rs3815768	NP_036213	T	A	TA	benign
rs3815803	XP_375358	S	G	SG	benign
rs3815823	NP_059447	R	Q	RQ	benign
rs3815849	NP_072174	R	C	RC	possibly damaging
rs3815875	NP_002340	D	A	DA	benign
rs3815905	NP_775801	V	M	VM	benign
rs3816032	NP_689479	I	T	IT	benign
rs3816045	NP_036287	R	H	RH	possibly damaging
rs3816162	NP_071918	I	T	IT	benign
rs3816182	NP_036337	T	S	TS	benign
rs3816183	NP_036337	V	I	VI	benign
rs3816208	NP_002989	A	T	AT	benign
rs3816281	NP_002655	N	K	NK	benign
rs3816300	NP_003172	N	S	NS	benign
rs3816421	XP_295213	A	T	AT	benign
rs3816478	NP_620714	P	L	PL	possibly damaging
rs3816497	NP_002931	S	C	SC	probably damaging
rs3816527	NP_002843	D	A	DA	possibly damaging
rs3816533	NP_005081	R	C	RC	possibly damaging
rs3816539	NP_995583	V	M	VM	benign
rs3816539	NP_079163	V	M	VM	benign
rs3816540	NP_002944	K	T	KT	benign
rs3816605	XP_113678	T	A	TA	benign
rs3816614	XP_035037	R	Q	RQ	benign
rs3816665	NP_000417	R	H	RH	benign
rs3816747	NP_079043	T	I	TI	benign
rs3816748	NP_079043	L	V	LV	benign
rs3816780	NP_079133	P	S	PS	benign
rs3816800	NP_077816	R	S	RS	benign
rs3816842	XP_371655	T	I	TI	possibly damaging
rs3816873	NP_000244	I	T	IT	benign
rs3816877	NP_001631	T	M	TM	benign



rs3816887	NP_073579	D	H	DH	possibly damaging
rs3816988	NP_055874	F	L	FL	benign
rs3817121	XP_371617	V	I	VI	benign
rs3817190	NP_006540	T	S	TS	benign
rs3817190	NP_757365	T	S	TS	benign
rs3817190	NP_705720	T	S	TS	benign
rs3817190	NP_757380	T	S	TS	benign
rs3817190	NP_757364	T	S	TS	benign
rs3817190	NP_757363	T	S	TS	benign
rs3817211	NP_060028	N	D	ND	benign
rs3817220	NP_115287	I	V	IV	benign
rs3817220	NP_115288	I	V	IV	benign
rs3817220	NP_115286	I	V	IV	benign
rs3817221	NP_115287	R	Q	RQ	benign
rs3817221	NP_115288	R	Q	RQ	benign
rs3817221	NP_115286	R	Q	RQ	benign
rs3817222	NP_115287	R	W	RW	possibly damaging
rs3817222	NP_115288	R	W	RW	possibly damaging
rs3817222	NP_115286	R	W	RW	probably damaging
rs3817224	NP_115287	T	S	TS	benign
rs3817224	NP_115288	T	S	TS	benign
rs3817224	NP_115286	T	S	TS	benign
rs3817271	XP_496032	F	L	FL	benign
rs3817362	NP_077006	V	A	VA	benign
rs3817405	NP_116201	V	I	VI	benign
rs3817420	NP_059129	V	I	VI	benign
rs3817552	NP_002456	H	Q	HQ	probably damaging
rs3817552	NP_996557	H	Q	HQ	probably damaging
rs3817552	NP_996555	H	Q	HQ	probably damaging
rs3817552	NP_996556	H	Q	HQ	probably damaging
rs3817672	NP_003225	S	G	SG	benign
rs3817893	NP_115597	H	Q	HQ	benign
rs3817910	NP_113663	Y	C	YC	probably damaging
rs3817911	NP_113663	R	H	RH	benign
rs3817914	NP_113663	D	E	DE	benign
rs3817920	NP_113663	H	Y	HY	benign
rs3817921	NP_113663	P	A	PA	possibly damaging
rs3818123	NP_061914	Q	R	QR	benign
rs3818125	NP_061914	A	T	AT	benign
rs3818199	NP_002853	A	S	AS	benign
rs3818222	NP_848561	V	I	VI	benign
rs3818503	NP_937829	R	H	RH	benign
rs3818503	NP_937830	R	H	RH	benign
rs3818503	NP_054729	R	H	RH	benign
rs3818511	NP_005530	K	R	KR	benign
rs3818551	NP_115906	P	Q	PQ	benign

rs3818562	NP_078802	H	Y	HY	benign
rs3818562	NP_573444	H	Y	HY	benign
rs3818562	NP_620641	H	Y	HY	benign
rs3818872	NP_009190	R	Q	RQ	possibly damaging
rs3818949	XP_375853	N	D	ND	benign
rs3819129	NP_775800	G	D	GD	possibly damaging
rs3819142	NP_775839	N	H	NH	benign
rs3819158	NP_071398	V	I	VI	benign
rs3819234	XP_495883	P	S	PS	possibly damaging
rs3819236	XP_495883	M	T	MT	benign
rs3819237	XP_495883	M	L	ML	possibly damaging
rs3819238	XP_495883	T	K	TK	benign
rs3819330	NP_001447	K	R	KR	benign
rs3819946	NP_001880	I	V	IV	benign
rs3820011	XP_372193	G	C	GC	probably damaging
rs3820059	NP_067002	F	S	FS	benign
rs3820071	NP_056933	R	G	RG	benign
rs3820198	NP_059992	E	D	ED	benign
rs3820198	NP_150643	E	D	ED	benign
rs3820198	NP_004622	E	D	ED	benign
rs3820206	NP_443128	L	R	LR	possibly damaging
rs3820264	NP_067028	T	A	TA	probably damaging
rs3820285	NP_005738	G	A	GA	benign
rs3820292	NP_115640	E	G	EG	benign
rs3820293	NP_115640	F	C	FC	possibly damaging
rs3820386	NP_067649	A	T	AT	benign
rs3820436	NP_036266	R	Q	RQ	benign
rs3820439	NP_064601	V	I	VI	benign
rs3820450	NP_002146	E	K	EK	benign
rs3820464	NP_009054	R	Q	RQ	benign
rs3820551	NP_005364	R	Q	RQ	benign
rs3820602	NP_005637	T	I	TI	benign
rs3820678	XP_291548	A	T	AT	benign
rs3820921	NP_057336	R	T	RT	benign
rs3821033	XP_376172	A	T	AT	benign
rs3821169	NP_057525	G	V	GV	probably damaging
rs3821238	NP_060880	S	C	SC	benign
rs3821242	NP_061966	W	R	WR	benign
rs3821348	NP_057636	V	L	VL	benign
rs3821348	NP_060314	V	L	VL	benign
rs3821406	XP_374057	I	M	IM	benign
rs3821507	NP_008958	P	L	PL	probably damaging
rs3821727	NP_113607	T	S	TS	benign
rs3821750	XP_291080	I	T	IT	benign
rs3821875	NP_001398	S	T	ST	benign
rs3821917	NP_055823	R	Q	RQ	benign

rs3821945	NP_005996	D	N	DN	benign
rs3821979	NP_065910	L	H	LH	possibly damaging
rs3822214	NP_000213	M	L	ML	benign
rs3822335	NP_061756	L	V	LV	benign
rs3822346	NP_113688	P	S	PS	benign
rs3822346	NP_061730	P	S	PS	benign
rs3822351	NP_113688	G	R	GR	benign
rs3822351	NP_061730	G	R	GR	benign
rs3822352	NP_113688	R	H	RH	benign
rs3822352	NP_061730	R	H	RH	benign
rs3822354	NP_113688	G	S	GS	benign
rs3822354	NP_061730	G	S	GS	benign
rs3822357	NP_115796	A	T	AT	benign
rs3822357	NP_002578	A	T	AT	benign
rs3822453	XP_016532	M	K	MK	benign
rs3822471	NP_056199	N	S	NS	benign
rs3822471	NP_597677	N	S	NS	benign
rs3822530	NP_006624	P	R	PR	probably damaging
rs3822587	NP_057302	I	V	IV	benign
rs3822659	NP_056053	S	A	SA	benign
rs3822660	NP_056053	M	I	MI	benign
rs3823184	NP_689764	R	Q	RQ	possibly damaging
rs3823302	NP_064570	E	D	ED	benign
rs3823310	NP_005091	E	D	ED	benign
rs3823310	NP_653080	E	D	ED	benign
rs3823430	NP_001362	V	I	VI	benign
rs3823646	NP_078913	A	V	AV	benign
rs3823844	XP_371878	Y	H	YH	benign
rs3823846	XP_376576	Y	H	YH	benign
rs3824004	NP_006184	R	S	RS	possibly damaging
rs3824145	NP_055844	S	L	SL	benign
rs3824250	NP_060494	R	C	RC	probably damaging
rs3824276	NP_006757	L	S	LS	benign
rs3824419	NP_870987	A	P	AP	benign
rs3824420	NP_694856	R	H	RH	benign
rs3824421	NP_694856	A	V	AV	benign
rs3824428	XP_498335	G	S	GS	benign
rs3824553	NP_000146	S	T	ST	benign
rs3824699	NP_059129	I	V	IV	benign
rs3824700	NP_059129	R	H	RH	probably damaging
rs3824733	NP_005963	R	C	RC	probably damaging
rs3824807	NP_055476	R	C	RC	possibly damaging
rs3824853	NP_060105	K	R	KR	benign
rs3824874	NP_057240	K	T	KT	benign
rs3824886	NP_006401	R	S	RS	benign
rs3824940	XP_370654	E	V	EV	probably damaging

rs3825020	XP_495876	G	R	GR	benign
rs3825145	NP_006009	F	S	FS	possibly damaging
rs3825149	NP_006009	Y	N	YN	possibly damaging
rs3825150	NP_006009	V	L	VL	benign
rs3825155	NP_006009	C	R	CR	probably damaging
rs3825274	XP_495912	H	P	HP	possibly damaging
rs3825327	NP_085911	P	H	PH	possibly damaging
rs3825491	XP_028522	P	A	PA	benign
rs3825549	NP_473365	S	P	SP	benign
rs3825584	NP_852002	R	H	RH	benign
rs3825584	NP_079506	R	H	RH	benign
rs3825629	NP_055906	E	Q	EQ	benign
rs3825630	NP_115511	P	L	PL	benign
rs3825632	NP_115511	D	E	DE	benign
rs3825676	NP_008970	G	R	GR	possibly damaging
rs3825723	XP_375087	Q	L	QL	possibly damaging
rs3825725	XP_375087	T	A	TA	benign
rs3825801	NP_061198	E	K	EK	benign
rs3825807	NP_055087	S	P	SP	benign
rs3825828	NP_055087	D	N	DN	benign
rs3825829	NP_055087	D	G	DG	benign
rs3825830	NP_055087	P	L	PL	probably damaging
rs3825831	NP_055087	V	E	VE	benign
rs3825833	NP_055087	Y	C	YC	probably damaging
rs3825859	NP_079516	G	R	GR	benign
rs3825937	NP_149972	I	T	IT	benign
rs3825942	NP_005567	G	D	GD	possibly damaging
rs3826007	NP_004040	G	D	GD	possibly damaging
rs3826016	XP_370839	I	T	IT	benign
rs3826016	XP_496096	I	T	IT	benign
rs3826107	NP_036258	T	M	TM	benign
rs3826107	NP_078809	T	M	TM	possibly damaging
rs3826190	NP_001257	G	V	GV	probably damaging
rs3826192	NP_001257	V	I	VI	benign
rs3826193	NP_001257	I	V	IV	benign
rs3826358	NP_000033	V	A	VA	benign
rs3826543	XP_496182	I	V	IV	benign
rs3826550	NP_000517	A	T	AT	benign
rs3826593	NP_443179	I	T	IT	benign
rs3826616	NP_942130	H	R	HR	probably damaging
rs3826616	NP_002631	H	R	HR	probably damaging
rs3826671	NP_689688	H	R	HR	benign
rs3826671	NP_116217	R	H	RH	benign
rs3826709	NP_835388	E	Q	EQ	benign
rs3826709	NP_075384	E	Q	EQ	benign
rs3826711	NP_000758	P	A	PA	probably damaging

rs3826736	NP_940936	Y	N	YN	possibly damaging
rs3826750	NP_006855	N	S	NS	benign
rs3826835	NP_115631	T	S	TS	benign
rs3826838	NP_000502	V	I	VI	benign
rs3826936	NP_003766	A	S	AS	benign
rs3826942	NP_116242	G	R	GR	probably damaging
rs3826979	XP_290835	P	L	PL	probably damaging
rs3827022	NP_208384	R	Q	RQ	benign
rs3827040	NP_542175	P	L	PL	probably damaging
rs3827047	NP_898868	E	D	ED	benign
rs3827047	NP_898869	E	D	ED	benign
rs3827047	NP_036540	E	D	ED	benign
rs3827103	NP_063941	V	I	VI	benign
rs3827183	NP_005119	G	E	GE	benign
rs3827318	NP_057533	I	T	IT	benign
rs3827440	NP_115942	S	P	SP	benign
rs3827462	NP_000100	T	S	TS	benign
rs3827462	NP_003997	T	S	TS	benign
rs3827462	NP_003998	T	S	TS	benign
rs3827462	NP_004000	T	S	TS	benign
rs3827462	NP_004001	T	S	TS	benign
rs3827464	NP_078933	R	C	RC	possibly damaging
rs3827497	NP_056011	Y	H	YH	possibly damaging
rs3827521	XP_208658	T	K	TK	possibly damaging
rs3827522	NP_694571	P	S	PS	possibly damaging
rs3827530	NP_115820	A	V	AV	benign
rs3827653	NP_066974	R	H	RH	possibly damaging
rs3827760	NP_071731	V	A	VA	benign
rs3827816	NP_002151	V	I	VI	benign
rs3827906	NP_071755	L	V	LV	benign
rs3828049	NP_056473	A	V	AV	benign
rs3828050	NP_056473	R	H	RH	possibly damaging
rs3828054	NP_064512	Q	R	QR	benign
rs3828075	NP_078613	A	T	AT	benign
rs3828161	XP_051221	Q	R	QR	benign
rs3828341	NP_758515	Q	H	QH	benign
rs3828341	NP_006864	Q	H	QH	benign
rs3828357	XP_114301	N	D	ND	benign
rs3828405	NP_689886	D	A	DA	possibly damaging
rs3828406	NP_689886	A	T	AT	benign
rs3828407	NP_689886	M	T	MT	benign
rs3828408	NP_689886	P	L	PL	benign
rs3828539	NP_619643	I	T	IT	benign
rs3828555	NP_006672	A	E	AE	benign
rs3828611	NP_705838	H	Q	HQ	benign
rs3828625	NP_036320	N	S	NS	benign

rs3828625	NP_658982	N	S	NS	benign
rs3828736	NP_000417	A	T	AT	benign
rs3828741	NP_000856	A	T	AT	benign
rs3828743	XP_371844	P	S	PS	possibly damaging
rs3828855	NP_004044	P	S	PS	benign
rs3829009	NP_689775	R	S	RS	benign
rs3829037	NP_055566	T	A	TA	benign
rs3829078	NP_001207	Q	R	QR	benign
rs3829125	NP_001809	S	C	SC	probably damaging
rs3829241	NP_620714	E	G	EG	possibly damaging
rs3829256	NP_059509	E	A	EA	benign
rs3829295	NP_976328	M	V	MV	benign
rs3829409	NP_068763	A	V	AV	benign
rs3829452	NP_003804	G	A	GA	possibly damaging
rs3829456	NP_003804	Q	K	QK	benign
rs3829462	NP_000227	L	F	LF	probably damaging
rs3829598	NP_114165	R	C	RC	probably damaging
rs3829658	NP_201586	T	M	TM	benign
rs3829658	NP_443729	T	M	TM	benign
rs3829659	NP_055257	R	G	RG	probably damaging
rs3829701	NP_848699	L	P	LP	probably damaging
rs3829701	NP_653311	L	P	LP	probably damaging
rs3829706	NP_078928	M	V	MV	benign
rs3829709	NP_002556	S	A	SA	benign
rs3829738	NP_115505	S	P	SP	benign
rs3829740	NP_115505	P	R	PR	benign
rs3829752	NP_689488	E	Q	EQ	benign
rs3829817	NP_115823	R	Q	RQ	benign
rs3829827	XP_029805	C	Y	CY	probably damaging
rs3829856	NP_056467	I	L	IL	benign
rs3829868	NP_057274	G	S	GS	benign
rs3829873	XP_372191	Q	R	QR	benign
rs3829891	XP_027658	T	K	TK	benign
rs3829986	NP_005202	V	M	VM	benign
rs3830014	NP_000186	R	W	RW	probably damaging
rs3830125	NP_002115	A	T	AT	benign
rs3831042	XP_496691	S	A	SA	benign
rs3842776	NP_071424	G	A	GA	benign
rs3842778	NP_071424	Q	R	QR	benign
rs3842779	NP_071424	A	T	AT	benign
rs3842780	NP_071424	N	K	NK	benign
rs3842789	NP_000953	R	H	RH	benign
rs3842789	NP_542158	R	H	RH	benign
rs3842792	NP_000953	K	T	KT	benign
rs3842792	NP_542158	K	T	KT	benign
rs3844144	XP_208554	Y	H	YH	benign

rs3844239	XP_378185	E	G	EG	possibly damaging
rs3844257	NP_060586	K	R	KR	benign
rs3845152	XP_378185	N	H	NH	benign
rs3845153	XP_378185	A	T	AT	benign
rs3845154	XP_378185	P	A	PA	benign
rs3845276	XP_499223	R	C	RC	possibly damaging
rs3846973	XP_379501	L	P	LP	possibly damaging
rs3847262	NP_277051	L	F	LF	benign
rs3847531	XP_061871	I	V	IV	benign
rs3848519	NP_000131	G	C	GC	benign
rs3848568	NP_001808	K	R	KR	benign
rs3848570	NP_115823	R	H	RH	benign
rs3848591	XP_058997	R	H	RH	benign
rs3848614	NP_006831	D	H	DH	benign
rs3848666	NP_067055	P	R	PR	possibly damaging
rs3848668	NP_057518	N	S	NS	benign
rs3848668	NP_116575	N	S	NS	benign
rs3850531	NP_055862	L	S	LS	benign
rs3850625	NP_000060	R	C	RC	benign
rs3851294	NP_056190	C	R	CR	probably damaging
rs3851294	NP_955749	C	R	CR	probably damaging
rs3852229	NP_942150	V	I	VI	benign
rs3852810	XP_170842	E	A	EA	benign
rs3852810	NP_848666	E	A	EA	possibly damaging
rs3853543	NP_742093	T	R	TR	benign
rs3853562	XP_034717	C	G	CG	probably damaging
rs3853620	XP_495917	F	L	FL	possibly damaging
rs3853648	XP_290737	V	G	VG	possibly damaging
rs3853814	NP_001162	E	K	EK	benign
rs3853916	XP_378185	T	A	TA	benign
rs3855556	XP_371230	R	S	RS	probably damaging
rs3855731	XP_497653	R	Q	RQ	benign
rs3855762	NP_219480	D	N	DN	benign
rs3855763	NP_219480	H	R	HR	benign
rs3855947	NP_689705	E	Q	EQ	benign
rs3855990	XP_378185	F	L	FL	benign
rs3856177	XP_371230	G	E	GE	probably damaging
rs3856247	XP_371243	G	D	GD	probably damaging
rs3856321	XP_372763	P	L	PL	benign
rs3857300	NP_203128	A	S	AS	benign
rs3857300	NP_976038	A	S	AS	benign
rs3857554	NP_077819	G	V	GV	benign
rs3857555	NP_077819	F	L	FL	benign
rs3857722	XP_371884	D	N	DN	benign
rs3858538	NP_002197	R	C	RC	benign
rs3859364	XP_084000	L	I	LI	benign

rs3859456	NP_112234	K	E	KE	benign
rs3859464	XP_496315	T	M	TM	benign
rs3859473	NP_002771	K	E	KE	benign
rs3859474	NP_002771	S	P	SP	benign
rs3859494	XP_064903	Y	C	YC	benign
rs3859866	NP_115997	W	C	WC	benign
rs3859898	XP_499187	R	H	RH	benign
rs3860525	NP_741980	G	A	GA	benign
rs3860525	NP_055222	G	A	GA	possibly damaging
rs3860525	NP_741979	G	A	GA	possibly damaging
rs3860525	NP_741981	G	A	GA	possibly damaging
rs3860707	NP_660306	S	P	SP	benign
rs3860715	XP_094066	G	S	GS	possibly damaging
rs3862618	XP_370663	R	H	RH	benign
rs3863491	NP_000287	M	I	MI	benign
rs3863907	NP_997195	S	N	SN	possibly damaging
rs3864017	NP_149075	P	L	PL	benign
rs3864170	XP_496691	L	Q	LQ	probably damaging
rs3864915	XP_495908	T	I	TI	possibly damaging
rs3864916	XP_495908	S	G	SG	benign
rs3864938	XP_045792	Y	D	YD	benign
rs3864969	XP_370715	R	K	RK	benign
rs3864970	XP_370715	V	A	VA	benign
rs3865014	XP_290631	V	I	VI	benign
rs3865207	NP_000287	V	A	VA	benign
rs3865220	NP_002177	N	S	NS	benign
rs3865395	NP_219480	T	A	TA	benign
rs3865396	NP_219480	H	Q	HQ	possibly damaging
rs3865452	NP_079152	H	R	HR	benign
rs3865707	XP_377696	N	D	ND	benign
rs3865756	NP_001346	H	N	HN	possibly damaging
rs3866467	XP_372494	H	R	HR	benign
rs3866773	XP_092553	D	E	DE	benign
rs3867153	XP_495909	R	G	RG	possibly damaging
rs3868142	XP_290684	R	H	RH	possibly damaging
rs3868855	XP_496581	P	A	PA	benign
rs3868856	XP_496581	E	K	EK	benign
rs3869003	XP_379247	A	P	AP	benign
rs3869152	NP_942150	F	I	FI	benign
rs3869427	NP_775890	L	P	LP	benign
rs3869428	NP_775890	T	S	TS	benign
rs3869579	NP_085079	R	C	RC	probably damaging
rs3869579	NP_000755	R	C	RC	probably damaging
rs3869624	XP_497773	E	K	EK	benign
rs3870388	XP_495830	S	P	SP	benign
rs3870389	XP_495830	N	K	NK	benign



rs3870654	XP_291643	S	P	SP	benign
rs3871371	XP_291643	N	T	NT	benign
rs3871515	XP_495908	G	R	GR	benign
rs3871942	XP_496391	R	H	RH	benign
rs3871942	XP_375869	R	H	RH	benign
rs3872486	XP_496581	C	W	CW	probably damaging
rs3873306	NP_821133	M	V	MV	benign
rs3873635	XP_379858	L	S	LS	benign
rs3873635	XP_496912	S	L	SL	benign
rs3874112	XP_495908	R	Q	RQ	benign
rs3874116	XP_495908	V	M	VM	benign
rs3874654	NP_000287	R	C	RC	probably damaging
rs3874655	NP_000287	S	G	SG	benign
rs3877226	XP_291396	E	Q	EQ	benign
rs3878008	XP_495830	H	D	HD	benign
rs3878009	XP_495830	V	I	VI	benign
rs3878010	XP_495830	T	M	TM	benign
rs3878375	XP_497500	Y	H	YH	benign
rs3878392	XP_497500	V	I	VI	benign
rs3878393	XP_497500	Q	E	QE	benign
rs3878394	XP_497500	E	A	EA	benign
rs3878395	XP_497500	K	E	KE	benign
rs3878399	XP_497500	V	M	VM	benign
rs3878691	XP_372941	T	K	TK	benign
rs3879080	XP_089866	I	M	IM	possibly damaging
rs3879081	XP_497258	R	C	RC	probably damaging
rs3881367	XP_496034	G	V	GV	probably damaging
rs3881420	NP_004658	I	V	IV	benign
rs3881673	NP_899228	E	Q	EQ	benign
rs3881953	NP_115287	R	K	RK	benign
rs3881953	NP_115288	R	K	RK	benign
rs3881953	NP_115286	R	K	RK	benign
rs3882153	XP_291643	A	V	AV	benign
rs3882325	NP_066278	V	A	VA	benign
rs3884051	NP_112234	N	I	NI	benign
rs3884159	XP_372640	T	P	TP	probably damaging
rs3885179	NP_115809	A	E	AE	benign
rs3885739	XP_208319	V	G	VG	probably damaging
rs3885816	NP_000757	P	L	PL	probably damaging
rs3886020	NP_006751	A	S	AS	benign
rs3886999	NP_036202	R	K	RK	benign
rs3886999	NP_647538	R	K	RK	benign
rs3886999	NP_647537	R	K	RK	benign
rs3887192	NP_085137	Q	H	QH	possibly damaging
rs3887623	XP_372191	R	Q	RQ	benign
rs3887638	NP_002522	S	C	SC	benign

rs3887656	XP_496341	L	P	LP	possibly damaging
rs3887660	NP_112536	V	L	VL	benign
rs3887954	NP_476429	G	R	GR	probably damaging
rs3888798	NP_001805	I	V	IV	benign
rs3888834	XP_211460	S	G	SG	benign
rs3888935	XP_497500	G	C	GC	probably damaging
rs3889063	NP_066921	R	P	RP	probably damaging
rs3889598	NP_065902	S	F	SF	benign
rs3889847	XP_374014	S	G	SG	benign
rs3890437	XP_209559	R	Q	RQ	benign
rs3890590	NP_001064	P	L	PL	probably damaging
rs3890844	NP_659404	A	D	AD	benign
rs3890998	NP_997357	D	N	DN	benign
rs3891058	NP_000698	H	Q	HQ	probably damaging
rs3891458	NP_073588	V	I	VI	benign
rs3891495	NP_004435	Y	D	YD	probably damaging
rs3891724	NP_113680	A	S	AS	benign
rs3891772	NP_077816	S	C	SC	possibly damaging
rs3891921	NP_001973	D	H	DH	possibly damaging
rs3892170	NP_061951	G	R	GR	benign
rs3892221	NP_009051	R	W	RW	benign
rs3892230	XP_375148	V	I	VI	benign
rs3892231	XP_375148	R	H	RH	benign
rs3892408	NP_001131	V	M	VM	probably damaging
rs3892554	NP_783861	Q	R	QR	benign
rs3893588	XP_496202	M	V	MV	benign
rs3893680	NP_085911	R	S	RS	possibly damaging
rs3893889	XP_372941	A	T	AT	benign
rs3893898	XP_208545	M	L	ML	probably damaging
rs3894082	NP_002062	G	E	GE	benign
rs3894082	NP_892023	G	E	GE	benign
rs3894129	XP_371164	G	A	GA	benign
rs3894157	XP_496448	G	S	GS	benign
rs3894168	XP_291643	M	V	MV	possibly damaging
rs3894194	NP_835465	R	Q	RQ	benign
rs3894197	XP_372437	T	S	TS	benign
rs3894198	XP_372437	A	V	AV	benign
rs3894199	XP_372437	G	A	GA	benign
rs3894211	NP_002817	N	S	NS	benign
rs3894326	NP_000140	I	K	IK	probably damaging
rs3894584	XP_291625	R	H	RH	benign
rs3894584	XP_291638	R	H	RH	benign
rs3894586	XP_291625	H	R	HR	benign
rs3894586	XP_291638	H	R	HR	benign
rs3894691	XP_376201	D	Y	DY	probably damaging
rs3894725	XP_371230	S	I	SI	possibly damaging

rs3895154	XP_291625	Q	K	QK	benign
rs3895154	XP_291638	Q	K	QK	benign
rs3895411	XP_498333	P	T	PT	benign
rs3895517	XP_497371	I	T	IT	benign
rs3895546	XP_057040	T	K	TK	benign
rs3895576	NP_038347	A	V	AV	benign
rs3895787	XP_372632	N	S	NS	benign
rs3895995	XP_291625	R	C	RC	possibly damaging
rs3895995	XP_291638	R	C	RC	possibly damaging
rs3896260	NP_821138	N	K	NK	benign
rs3896492	XP_495909	C	Y	CY	possibly damaging
rs3896725	NP_055474	S	G	SG	benign
rs3896929	NP_079295	G	E	GE	benign
rs3896930	NP_079295	H	R	HR	benign
rs3896931	NP_079295	T	A	TA	benign
rs3896980	XP_291277	R	Q	RQ	benign
rs3897277	XP_212238	W	S	WS	probably damaging
rs3897399	XP_495965	H	Y	HY	benign
rs3897433	NP_001522	R	Q	RQ	benign
rs3897434	NP_001522	A	V	AV	benign
rs3897450	NP_899228	V	F	VF	benign
rs3897592	XP_496266	E	A	EA	possibly damaging
rs3898075	NP_001538	Y	C	YC	benign
rs3898166	NP_057564	E	K	EK	benign
rs3898167	NP_057564	E	K	EK	benign
rs3899049	XP_208213	G	S	GS	benign
rs3899528	NP_077719	P	H	PH	probably damaging
rs3900710	XP_293923	S	C	SC	benign
rs3900844	NP_005865	G	S	GS	benign
rs3900916	NP_075390	S	C	SC	possibly damaging
rs3900940	XP_036988	T	A	TA	benign
rs3901219	NP_821133	E	D	ED	benign
rs3901343	NP_060298	V	G	VG	probably damaging
rs3901622	XP_496026	M	T	MT	possibly damaging
rs3902410	NP_958782	P	A	PA	possibly damaging
rs3902411	NP_958782	V	L	VL	benign
rs3903560	XP_498452	K	E	KE	benign
rs3905126	XP_498326	A	S	AS	benign
rs3905126	XP_498328	A	S	AS	benign
rs3905705	NP_079489	Q	E	QE	benign
rs3905705	NP_066022	Q	E	QE	benign
rs3905725	NP_055718	S	N	SN	benign
rs3906659	XP_047554	Q	P	QP	probably damaging
rs3906956	NP_004019	M	T	MT	possibly damaging
rs3907239	NP_003049	R	K	RK	possibly damaging
rs3908150	NP_002694	K	Q	KQ	benign

rs3908178	NP_002251	T	A	TA	possibly damaging
rs3908178	NP_031359	T	A	TA	possibly damaging
rs3908635	XP_498326	H	Y	HY	probably damaging
rs3908635	XP_498328	H	Y	HY	probably damaging
rs3909024	XP_498328	E	G	EG	possibly damaging
rs3909165	NP_862823	F	Y	FY	benign
rs3910283	NP_116561	I	F	IF	benign
rs3910433	NP_898866	N	S	NS	benign
rs3910433	NP_898865	N	S	NS	benign
rs3911730	NP_775901	A	S	AS	benign
rs3911864	XP_084445	N	K	NK	possibly damaging
rs3911892	NP_057518	Q	H	QH	benign
rs3911892	NP_116575	Q	H	QH	benign
rs3911893	NP_008860	D	N	DN	benign
rs3911946	XP_374014	D	G	DG	benign
rs3913486	NP_116026	P	L	PL	probably damaging
rs3913486	NP_005974	P	L	PL	probably damaging
rs3913487	NP_116026	L	I	LI	benign
rs3913487	NP_005974	L	I	LI	benign
rs3915061	NP_787120	P	R	PR	possibly damaging
rs3915806	XP_376172	T	P	TP	benign
rs3915951	NP_000097	R	L	RL	probably damaging
rs3916645	XP_372543	I	F	IF	benign
rs3916686	NP_002446	V	G	VG	possibly damaging
rs3916686	NP_942584	V	G	VG	possibly damaging
rs3917222	NP_689668	Q	L	QL	possibly damaging
rs3917223	NP_777576	T	A	TA	benign
rs3917407	NP_000441	A	S	AS	benign
rs3917408	NP_000441	M	I	MI	possibly damaging
rs3917422	NP_000441	Q	P	QP	benign
rs3917429	NP_000441	P	S	PS	possibly damaging
rs3917604	NP_001984	T	A	TA	benign
rs3917627	NP_001984	I	V	IV	benign
rs3917718	NP_002996	G	R	GR	possibly damaging
rs3917724	NP_002996	I	T	IT	benign
rs3917742	NP_002996	S	L	SL	benign
rs3917769	NP_002996	E	K	EK	benign
rs3917812	NP_002996	G	V	GV	probably damaging
rs3917814	NP_002996	T	N	TN	benign
rs3917815	NP_002996	N	S	NS	benign
rs3917869	NP_002996	C	F	CF	probably damaging
rs3917973	NP_724781	M	T	MT	probably damaging
rs3917973	NP_758519	M	T	MT	probably damaging
rs3917973	NP_000751	M	T	MT	probably damaging
rs3917974	NP_724781	Q	R	QR	possibly damaging
rs3917974	NP_758519	Q	R	QR	possibly damaging

rs3917974	NP_000751	Q	R	QR	possibly damaging
rs3917991	NP_724781	D	H	DH	possibly damaging
rs3917991	NP_758519	D	H	DH	possibly damaging
rs3917991	NP_000751	D	H	DH	possibly damaging
rs3917996	NP_724781	Y	H	YH	possibly damaging
rs3917996	NP_758519	Y	H	YH	possibly damaging
rs3917996	NP_000751	Y	H	YH	possibly damaging
rs3917997	NP_724781	R	C	RC	possibly damaging
rs3917997	NP_758519	R	C	RC	possibly damaging
rs3917997	NP_000751	R	C	RC	possibly damaging
rs3918018	NP_724781	D	N	DN	benign
rs3918018	NP_724780	D	N	DN	benign
rs3918018	NP_758519	D	N	DN	benign
rs3918018	NP_000751	D	N	DN	probably damaging
rs3918019	NP_724781	E	K	EK	benign
rs3918019	NP_724780	E	K	EK	benign
rs3918019	NP_758519	E	K	EK	benign
rs3918019	NP_000751	E	K	EK	benign
rs3918020	NP_724781	R	Q	RQ	benign
rs3918020	NP_724780	R	Q	RQ	benign
rs3918020	NP_758519	R	Q	RQ	benign
rs3918020	NP_000751	R	Q	RQ	benign
rs3918143	NP_005095	A	V	AV	benign
rs3918166	NP_000594	R	Q	RQ	benign
rs3918201	NP_000594	R	M	RM	benign
rs3918232	NP_000594	V	M	VM	benign
rs3918234	NP_000594	Q	L	QL	possibly damaging
rs3918248	NP_004985	A	V	AV	benign
rs3918252	NP_004985	N	K	NK	probably damaging
rs3918389	NP_932173	G	R	GR	possibly damaging
rs3918389	NP_000326	G	R	GR	possibly damaging
rs3918391	NP_694882	Y	H	YH	possibly damaging
rs3918391	NP_079496	Y	H	YH	possibly damaging
rs3918392	NP_694882	T	A	TA	benign
rs3918392	NP_079496	T	A	TA	benign
rs3918394	NP_694882	A	V	AV	benign
rs3918394	NP_079496	A	V	AV	benign
rs3918396	NP_694882	V	I	VI	benign
rs3918396	NP_079496	V	I	VI	benign
rs3918401	NP_694882	Q	H	QH	benign
rs3918401	NP_079496	Q	H	QH	possibly damaging
rs3920038	NP_031387	Q	P	QP	benign
rs3922210	NP_004387	E	D	ED	benign
rs3922872	NP_077010	I	V	IV	benign
rs3923647	NP_003254	H	L	HL	probably damaging
rs3924227	NP_005747	N	S	NS	benign

rs3924999	NP_039250	Q	R	QR	benign
rs3924999	NP_039251	Q	R	QR	benign
rs3924999	NP_039252	Q	R	QR	benign
rs3924999	NP_039254	R	Q	RQ	benign
rs3924999	NP_039258	R	Q	RQ	benign
rs3924999	NP_039255	R	Q	RQ	benign
rs3926493	XP_084445	R	H	RH	benign
rs3926769	XP_496394	K	R	KR	benign
rs3927589	NP_005948	E	D	ED	benign
rs3927729	NP_077719	P	L	PL	probably damaging
rs3927729	NP_982283	P	L	PL	probably damaging
rs3927874	XP_291396	R	K	RK	benign
rs3928026	NP_056198	Q	E	QE	possibly damaging
rs3928064	XP_380175	E	D	ED	benign
rs3928536	XP_375313	C	W	CW	probably damaging
rs3928652	XP_496235	T	I	TI	benign
rs3928777	NP_055626	K	E	KE	benign
rs3929379	XP_496034	Q	R	QR	benign
rs3929708	NP_055564	G	E	GE	probably damaging
rs3929715	NP_219491	R	Q	RQ	benign
rs3930033	XP_496581	E	V	EV	possibly damaging
rs3930075	XP_291981	H	R	HR	possibly damaging
rs3930388	XP_295213	P	S	PS	probably damaging
rs3930411	NP_689849	K	N	KN	benign
rs3931036	NP_056201	I	T	IT	possibly damaging
rs3931036	NP_665817	I	T	IT	possibly damaging
rs3931654	NP_061880	C	F	CF	benign
rs3932801	XP_498018	N	Y	NY	probably damaging
rs3932869	NP_056086	R	K	RK	benign
rs3934184	NP_775909	Q	H	QH	benign
rs3934184	NP_056198	H	Q	HQ	possibly damaging
rs3935209	XP_291266	S	R	SR	benign
rs3936192	NP_065871	S	T	ST	benign
rs3937685	NP_877417	F	V	FV	possibly damaging
rs3937687	NP_877417	S	I	SI	possibly damaging
rs3938624	XP_372191	R	Q	RQ	benign
rs3938877	XP_375313	I	T	IT	benign
rs3939280	NP_055641	D	N	DN	benign
rs3939280	NP_003598	D	N	DN	possibly damaging
rs3940303	XP_208522	I	F	IF	benign
rs3940555	NP_057373	E	D	ED	benign
rs3940933	NP_055087	A	T	AT	benign
rs3943978	NP_036377	S	F	SF	possibly damaging
rs3944035	NP_076406	L	F	LF	benign
rs3945783	NP_056108	Q	H	QH	possibly damaging
rs3945783	NP_149062	Q	H	QH	possibly damaging

rs3945783	NP_892006	Q	H	QH	possibly damaging
rs3946003	NP_699191	C	R	CR	possibly damaging
rs3946808	NP_665702	V	G	VG	possibly damaging
rs3948036	XP_496593	R	H	RH	possibly damaging
rs3948463	NP_536349	M	I	MI	benign
rs3948463	NP_004500	M	I	MI	benign
rs3948464	NP_004501	S	L	SL	benign
rs3948464	NP_536349	S	L	SL	benign
rs3948464	NP_004500	S	L	SL	benign
rs3950029	XP_029353	S	L	SL	benign
rs3950124	NP_061914	E	Q	EQ	benign
rs3950374	NP_683759	R	P	RP	benign
rs3950374	NP_060514	R	P	RP	benign
rs3950388	NP_066296	A	D	AD	benign
rs3950485	XP_375148	V	M	VM	benign
rs3950485	XP_496031	V	M	VM	benign
rs3950588	NP_085911	K	R	KR	benign
rs3951216	NP_002340	D	E	DE	benign
rs3951906	XP_496692	P	L	PL	probably damaging
rs3952537	NP_001073	A	G	AG	benign
rs3952862	NP_689805	T	M	TM	possibly damaging
rs3952942	NP_000287	V	M	VM	benign
rs3952944	NP_000287	T	M	TM	possibly damaging
rs3953584	NP_036581	I	M	IM	benign
rs3953596	NP_003202	S	N	SN	benign
rs3953597	NP_003202	G	E	GE	probably damaging
rs3953598	NP_003202	A	T	AT	benign
rs3953918	XP_377073	M	V	MV	benign
rs3953918	NP_878908	M	V	MV	benign
rs3954038	XP_208320	N	D	ND	benign
rs3954277	XP_498333	K	N	KN	benign
rs3954772	XP_497067	Y	H	YH	benign
rs3954773	XP_497067	S	F	SF	probably damaging
rs3954815	NP_842564	W	R	WR	benign
rs3956248	NP_149439	P	L	PL	benign
rs3956695	XP_496860	L	V	LV	benign
rs3957094	NP_056985	S	P	SP	benign
rs3957125	XP_495830	R	W	RW	probably damaging
rs3958118	NP_695023	D	E	DE	benign
rs3958222	NP_899228	D	A	DA	benign
rs3958533	NP_004798	R	S	RS	probably damaging
rs3958732	NP_695022	D	E	DE	benign
rs3959012	XP_372030	L	P	LP	benign
rs3959012	XP_372028	L	P	LP	benign
rs3959237	NP_055474	E	K	EK	benign
rs3959569	XP_031706	R	P	RP	benign

rs3960652	NP_115534	A	G	AG	benign
rs3960652	NP_683738	A	G	AG	benign
rs3961613	XP_378185	Q	H	QH	benign
rs3961873	XP_496391	G	C	GC	benign
rs3961873	XP_375869	G	C	GC	benign
rs3962575	NP_722577	C	R	CR	probably damaging
rs3963353	XP_496917	N	S	NS	benign
rs3963375	XP_498109	L	V	LV	benign
rs3963376	XP_498109	M	T	MT	possibly damaging
rs3963377	XP_498109	V	L	VL	benign
rs3963378	XP_498109	Y	H	YH	possibly damaging
rs3963704	XP_496034	G	S	GS	benign
rs3963858	XP_496448	G	D	GD	benign
rs3964420	XP_496559	P	L	PL	benign
rs3964421	XP_496559	Q	R	QR	benign
rs3964631	NP_000141	N	D	ND	benign
rs3964634	NP_061122	P	S	PS	possibly damaging
rs3964634	XP_292357	P	S	PS	possibly damaging
rs3964745	XP_084445	D	E	DE	benign
rs3964746	XP_084445	G	R	GR	benign
rs3964806	XP_495808	R	W	RW	benign
rs3965005	XP_495823	V	I	VI	benign
rs3966247	NP_038347	T	M	TM	benign
rs3966273	XP_496518	N	S	NS	benign
rs3966274	XP_496518	T	A	TA	possibly damaging
rs3966277	XP_496518	V	D	VD	benign
rs3966348	NP_543029	N	S	NS	benign
rs3966348	NP_954578	N	S	NS	benign
rs3967767	NP_006165	D	N	DN	benign
rs3968137	XP_371534	L	I	LI	benign
rs3968186	XP_497391	H	N	HN	benign
rs3968196	XP_497391	V	L	VL	benign
rs3968285	XP_211858	Q	R	QR	benign
rs3968287	XP_211858	N	H	NH	probably damaging
rs3968300	NP_006301	R	C	RC	probably damaging
rs3969147	NP_002800	E	D	ED	benign
rs3969711	XP_496394	V	F	VF	possibly damaging
rs3969856	XP_371227	R	W	RW	possibly damaging
rs3969860	NP_004274	V	I	VI	benign
rs3970483	XP_496493	M	L	ML	benign
rs3970555	NP_057419	P	L	PL	probably damaging
rs3970559	NP_057419	R	C	RC	probably damaging
rs3971938	XP_378983	R	H	RH	possibly damaging
rs3971939	XP_378983	I	T	IT	benign
rs3971940	XP_378983	V	A	VA	benign
rs3973263	NP_778234	M	R	MR	benign



rs3973263	XP_374460	M	R	MR	benign
rs3974688	XP_208058	E	G	EG	possibly damaging
rs3975155	XP_372403	F	V	FV	possibly damaging
rs3975560	XP_211908	K	E	KE	benign
rs3975564	XP_497958	H	N	HN	benign
rs3975773	XP_379121	I	T	IT	benign
rs3975775	XP_379121	W	R	WR	benign
rs3975776	XP_379121	L	Q	LQ	possibly damaging
rs3977284	NP_056198	C	W	CW	probably damaging
rs3979437	NP_114127	R	W	RW	possibly damaging
rs3979611	XP_208072	R	H	RH	benign
rs3979893	XP_496391	L	V	LV	benign
rs3979893	XP_375869	L	V	LV	benign
rs3981076	XP_380121	T	S	TS	benign
rs3982643	XP_377073	R	H	RH	possibly damaging
rs3982643	NP_878908	R	H	RH	possibly damaging
rs3983135	XP_497659	S	A	SA	benign
rs3983531	NP_116559	M	V	MV	benign
rs3983531	NP_002898	M	V	MV	benign
rs3983991	NP_997357	H	R	HR	benign
rs3986371	XP_377159	S	N	SN	benign
rs3986599	NP_055370	V	A	VA	benign
rs3987776	NP_742094	H	R	HR	benign
rs3987776	NP_742093	H	R	HR	probably damaging
rs3987776	NP_473361	H	R	HR	probably damaging
rs3987779	NP_742094	E	D	ED	benign
rs3987779	NP_742093	E	D	ED	benign
rs3987779	NP_473361	E	D	ED	benign
rs3987780	NP_742094	D	A	DA	possibly damaging
rs3987780	NP_742093	D	A	DA	possibly damaging
rs3987780	NP_473361	D	A	DA	probably damaging
rs3987794	NP_742094	R	C	RC	benign
rs3987794	NP_742093	R	C	RC	possibly damaging
rs3987794	NP_473361	R	C	RC	possibly damaging
rs3987795	NP_742094	R	Q	RQ	benign
rs3987795	NP_742093	R	Q	RQ	benign
rs3987795	NP_473361	R	Q	RQ	benign
rs3989369	NP_542984	P	S	PS	benign
rs3989369	NP_059142	P	S	PS	benign
rs3989642	XP_496962	A	V	AV	benign
rs3989697	XP_208563	L	V	LV	benign
rs3989698	XP_208563	G	R	GR	probably damaging
rs3989701	XP_208563	S	A	SA	benign
rs3989704	XP_373243	D	N	DN	benign
rs3989706	XP_373243	N	D	ND	benign
rs3990244	NP_695022	V	M	VM	probably damaging

rs3990245	NP_695022	F	L	FL	benign
rs3991747	NP_000642	V	A	VA	benign
rs3991747	NP_000564	V	A	VA	benign
rs3992690	NP_899228	S	T	ST	benign
rs3992691	NP_899228	L	V	LV	benign
rs3992692	NP_899228	E	K	EK	benign
rs3992693	NP_899228	G	E	GE	benign
rs3992694	NP_899228	L	V	LV	benign
rs3993295	NP_695023	F	L	FL	benign
rs3993297	NP_695023	F	L	FL	benign
rs3993298	NP_695023	V	A	VA	benign
rs3993299	NP_695023	V	A	VA	benign
rs3993300	NP_695023	T	S	TS	benign
rs3993301	NP_695023	K	E	KE	benign
rs3993313	NP_852609	E	K	EK	benign
rs3993409	NP_075387	M	V	MV	benign
rs3993409	NP_542418	M	V	MV	possibly damaging
rs3993410	NP_542418	E	K	EK	benign
rs3993410	NP_075387	E	K	EK	benign
rs3993983	NP_036349	A	T	AT	benign
rs3993986	NP_036349	E	G	EG	benign
rs3993987	NP_036349	V	M	VM	benign
rs3995818	NP_115582	H	R	HR	possibly damaging
rs3998247	XP_374801	E	K	EK	benign
rs3998247	XP_495830	V	I	VI	benign
rs3998268	NP_597703	C	Y	CY	benign
rs3998268	XP_495830	Y	C	YC	probably damaging
rs3998271	XP_495830	D	E	DE	benign
rs3998271	NP_597703	D	E	DE	benign
rs3998273	XP_495830	Q	R	QR	benign
rs3998273	NP_597703	Q	R	QR	benign
rs3998860	NP_085128	M	I	MI	benign
rs3999941	NP_065150	F	L	FL	probably damaging
rs4000170	XP_496860	I	S	IS	benign
rs4000303	XP_496374	H	R	HR	benign
rs4000304	XP_496374	L	V	LV	benign
rs4000308	XP_496374	S	A	SA	benign
rs4000311	XP_496374	A	V	AV	benign
rs4000312	XP_496374	T	A	TA	possibly damaging
rs4001221	XP_371405	S	P	SP	possibly damaging
rs4001222	XP_371405	D	H	DH	probably damaging
rs4001249	XP_371405	S	R	SR	possibly damaging
rs4001250	XP_371405	R	G	RG	possibly damaging
rs4002067	XP_374920	G	W	GW	probably damaging
rs4002067	XP_374917	W	G	WG	probably damaging
rs4002403	XP_498797	P	Q	PQ	probably damaging

rs4002413	NP_149439	P	T	PT	probably damaging
rs4002414	NP_149439	K	R	KR	benign
rs4005470	XP_291643	R	S	RS	benign
rs4008242	NP_219480	C	G	CG	possibly damaging
rs4008243	NP_219480	F	C	FC	benign
rs4008248	NP_219480	I	V	IV	benign
rs4008249	NP_219480	S	R	SR	benign
rs4008250	NP_219480	S	R	SR	possibly damaging
rs4008251	NP_219480	S	N	SN	benign
rs4008480	XP_376314	T	I	TI	benign
rs4008658	NP_001161	K	T	KT	benign
rs4008659	NP_001161	V	L	VL	benign
rs4008950	NP_004314	R	G	RG	possibly damaging
rs4009394	NP_842564	M	T	MT	benign
rs4009397	NP_842564	T	P	TP	benign
rs4009627	NP_443116	S	N	SN	benign
rs4009628	NP_443116	F	L	FL	possibly damaging
rs4011529	NP_056261	R	K	RK	benign
rs4011726	XP_498333	L	W	LW	probably damaging
rs4011728	XP_498333	R	M	RM	benign
rs4011729	XP_498333	K	E	KE	benign
rs4011730	XP_498333	R	Q	RQ	benign
rs4012379	XP_496581	C	Y	CY	probably damaging
rs4012380	XP_496581	Y	C	YC	probably damaging
rs4012382	XP_496581	P	L	PL	probably damaging
rs4012421	XP_496581	A	V	AV	benign
rs4012423	XP_496581	D	N	DN	benign
rs4012605	XP_495908	S	N	SN	benign
rs4013197	XP_171224	A	V	AV	benign
rs4013630	NP_878908	I	S	IS	benign
rs4013630	XP_377073	S	I	SI	benign
rs4013631	NP_878908	G	S	GS	possibly damaging
rs4013631	XP_377073	S	G	SG	possibly damaging
rs4013661	XP_377073	W	R	WR	benign
rs4013661	NP_878908	W	R	WR	benign
rs4013819	XP_497005	S	T	ST	benign
rs4014769	XP_495908	P	A	PA	probably damaging
rs4015375	NP_036581	H	Q	HQ	benign
rs4015376	NP_036581	I	V	IV	benign
rs4015377	NP_036581	L	V	LV	benign
rs4015573	XP_497335	G	R	GR	possibly damaging
rs4015574	XP_497335	G	V	GV	probably damaging
rs4016638	NP_002196	Q	P	QP	possibly damaging
rs4016871	XP_370939	I	V	IV	benign
rs4016978	XP_209910	K	N	KN	benign
rs4017999	NP_851849	R	H	RH	benign

rs4018147	NP_000287	R	P	RP	probably damaging
rs4018169	NP_000287	T	M	TM	possibly damaging
rs4018172	NP_000287	S	G	SG	benign
rs4019122	NP_073153	N	S	NS	benign
rs4019823	NP_055642	L	S	LS	benign
rs4020187	NP_056952	A	T	AT	benign
rs4020187	NP_055326	A	T	AT	benign
rs4020197	NP_056952	V	A	VA	benign
rs4020197	NP_055326	V	A	VA	benign
rs4020198	NP_056952	R	S	RS	benign
rs4020198	NP_055326	R	S	RS	benign
rs4020346	NP_001073	T	A	TA	benign
rs4020699	NP_055328	S	A	SA	benign
rs4021254	XP_495883	S	A	SA	benign
rs4021281	XP_495883	Q	R	QR	possibly damaging
rs4021403	XP_059923	S	A	SA	benign
rs4021405	XP_059923	K	E	KE	benign
rs4021407	XP_059923	E	A	EA	benign
rs4023128	XP_372191	V	I	VI	benign
rs4023155	XP_372191	P	H	PH	benign
rs4023333	XP_496691	L	F	LF	benign
rs4023334	XP_496691	V	A	VA	benign
rs4024339	NP_067053	S	N	SN	benign
rs4024339	NP_733751	S	N	SN	benign
rs4024346	NP_067053	R	L	RL	probably damaging
rs4024346	NP_733751	R	L	RL	probably damaging
rs4024358	NP_067053	L	F	LF	benign
rs4024358	NP_733751	L	F	LF	benign
rs4024360	NP_067053	G	D	GD	possibly damaging
rs4024360	NP_733751	G	D	GD	possibly damaging
rs4024402	NP_067053	M	I	MI	possibly damaging
rs4024402	NP_733751	M	I	MI	possibly damaging
rs4024419	NP_733751	G	E	GE	probably damaging
rs4024420	NP_733751	E	G	EG	possibly damaging
rs4024453	NP_733751	S	L	SL	possibly damaging
rs4025981	NP_006384	M	V	MV	benign
rs4026148	XP_291395	R	H	RH	possibly damaging
rs4026250	XP_372763	V	M	VM	benign
rs4026337	XP_497653	L	V	LV	benign
rs4026352	XP_497653	C	Y	CY	probably damaging
rs4026353	XP_497653	C	R	CR	probably damaging
rs4026355	XP_497653	T	I	TI	possibly damaging
rs4026356	XP_497653	G	C	GC	benign
rs4026357	XP_497653	L	F	LF	benign
rs4027455	NP_037395	D	V	DV	possibly damaging
rs4027458	NP_037395	S	G	SG	benign

rs4028135	NP_942150	H	P	HP	probably damaging
rs4028138	NP_942150	H	Q	HQ	probably damaging
rs4028443	NP_002775	T	A	TA	benign
rs4028445	NP_002775	I	M	IM	benign
rs4028471	NP_002772	S	L	SL	benign
rs4028590	XP_496399	T	S	TS	benign
rs4028591	XP_496399	S	R	SR	benign
rs4029140	XP_497629	I	V	IV	benign
rs4029141	XP_497629	S	T	ST	benign
rs4030982	NP_683759	W	R	WR	possibly damaging
rs4030982	NP_060514	W	R	WR	possibly damaging
rs4034612	NP_061914	D	N	DN	benign
rs4035286	XP_496917	R	K	RK	benign
rs4035416	XP_498109	C	G	CG	probably damaging
rs4035907	NP_004658	I	S	IS	benign
rs4036675	XP_370839	E	K	EK	benign
rs4036675	XP_496096	E	K	EK	benign
rs4036679	XP_370839	R	C	RC	benign
rs4036679	XP_496096	R	C	RC	benign
rs4036681	XP_370839	Q	H	QH	benign
rs4036681	XP_496096	Q	H	QH	benign
rs4036682	XP_370839	Y	H	YH	benign
rs4036682	XP_496096	Y	H	YH	benign
rs4036683	XP_370839	Q	R	QR	benign
rs4036683	XP_496096	Q	R	QR	benign
rs4036684	XP_370839	E	D	ED	benign
rs4036684	XP_496096	E	D	ED	benign
rs4036799	XP_293177	E	K	EK	benign
rs4037640	XP_171032	G	R	GR	probably damaging
rs4037641	XP_171032	G	E	GE	benign
rs4037776	XP_495941	V	L	VL	benign
rs4037778	XP_495941	V	M	VM	benign
rs4037858	XP_496448	G	S	GS	benign
rs4037861	XP_496448	H	Q	HQ	benign
rs4040421	XP_496559	Q	R	QR	benign
rs4040446	XP_496559	C	Y	CY	benign
rs4042020	XP_290482	K	N	KN	benign
rs4042020	XP_350781	K	N	KN	benign
rs4042102	NP_114400	R	L	RL	benign
rs4042102	NP_061739	R	L	RL	possibly damaging
rs4042218	XP_084445	D	E	DE	benign
rs4042218	XP_374801	E	D	ED	benign
rs4042219	XP_374801	E	K	EK	benign
rs4042219	XP_084445	E	K	EK	benign
rs4042220	XP_374801	R	L	RL	benign
rs4042220	XP_084445	L	R	LR	probably damaging

rs4042221	XP_374801	E	V	EV	benign
rs4042221	XP_084445	E	V	EV	benign
rs4042222	XP_084445	E	K	EK	benign
rs4042224	XP_084445	D	E	DE	benign
rs4043615	XP_495823	L	S	LS	benign
rs4043616	XP_495823	Q	R	QR	benign
rs4043618	XP_495823	R	Q	RQ	benign
rs4043619	XP_495823	M	V	MV	possibly damaging
rs4043620	XP_495823	S	P	SP	benign
rs4043621	XP_495823	N	K	NK	benign
rs4043622	XP_495823	T	M	TM	benign
rs4043635	XP_495823	D	E	DE	benign
rs4043636	XP_495823	R	C	RC	benign
rs4043644	XP_495823	I	S	IS	possibly damaging
rs4043645	XP_495823	D	N	DN	benign
rs4044210	NP_055061	I	V	IV	benign
rs4044526	NP_942154	V	A	VA	benign
rs4046242	XP_497500	T	A	TA	benign
rs4049504	NP_000487	T	M	TM	possibly damaging
rs4049687	XP_496520	R	C	RC	benign
rs4049829	NP_038347	A	V	AV	benign
rs4049882	NP_038347	A	T	AT	benign
rs4049973	XP_371424	G	R	GR	benign
rs4050393	XP_496513	R	Q	RQ	benign
rs4050503	NP_543032	A	T	AT	benign
rs4050505	NP_543032	H	R	HR	benign
rs4050961	NP_055449	S	C	SC	benign
rs4051625	XP_290331	M	T	MT	possibly damaging
rs4051627	XP_290331	P	L	PL	probably damaging
rs4051628	XP_290331	T	I	TI	possibly damaging
rs4052449	XP_372494	K	N	KN	benign
rs4052452	XP_372494	E	G	EG	possibly damaging
rs4052457	XP_372494	K	R	KR	benign
rs4052458	XP_372494	Y	H	YH	benign
rs4052459	XP_372494	S	P	SP	possibly damaging
rs4052460	XP_372494	R	K	RK	benign
rs4052462	XP_372494	A	V	AV	benign
rs4052562	NP_066278	A	V	AV	benign
rs4054106	XP_209554	P	T	PT	benign
rs4055055	XP_209910	M	R	MR	benign
rs4055056	XP_209910	L	P	LP	probably damaging
rs4055057	XP_209910	R	C	RC	benign
rs4055058	XP_209910	P	S	PS	possibly damaging
rs4055059	XP_209910	K	R	KR	benign
rs4055363	XP_497046	C	R	CR	benign
rs4056578	XP_372108	L	P	LP	benign

rs4056599	XP_372108	I	M	IM	benign
rs4057749	XP_210186	C	R	CR	probably damaging
rs4057750	XP_210186	Y	H	YH	probably damaging
rs4058025	NP_620155	N	D	ND	benign
rs4058438	NP_000557	V	I	VI	benign
rs4060171	XP_372500	A	T	AT	benign
rs4060652	XP_211858	C	Y	CY	probably damaging
rs4060653	XP_211858	Q	R	QR	benign
rs4061664	XP_372191	E	K	EK	benign
rs4067388	NP_775909	Q	K	QK	benign
rs4067733	NP_073153	G	V	GV	probably damaging
rs4067934	NP_598334	Y	H	YH	possibly damaging
rs4067934	NP_002932	Y	H	YH	possibly damaging
rs4067961	XP_370715	C	R	CR	benign
rs4067961	NP_848635	R	C	RC	benign
rs4068083	XP_496394	A	D	AD	benign
rs4068114	XP_496394	H	Q	HQ	benign
rs4072111	NP_757366	P	S	PS	possibly damaging
rs4072393	NP_079123	E	G	EG	benign
rs4073458	NP_542155	R	G	RG	benign
rs4073458	NP_542156	R	G	RG	benign
rs4073918	NP_872438	L	P	LP	possibly damaging
rs4074320	XP_066534	D	N	DN	benign
rs4074333	XP_060537	D	Y	DY	probably damaging
rs4074391	XP_375148	G	V	GV	probably damaging
rs4074392	XP_375148	Q	E	QE	benign
rs4074536	NP_001223	T	A	TA	benign
rs4074581	XP_497821	D	H	DH	possibly damaging
rs4075254	NP_009131	V	M	VM	benign
rs4075254	NP_006729	V	M	VM	benign
rs4075256	NP_009131	V	A	VA	benign
rs4075256	NP_006729	V	A	VA	benign
rs4075258	XP_292136	L	P	LP	possibly damaging
rs4075259	XP_292136	R	C	RC	probably damaging
rs4075289	NP_775855	I	S	IS	benign
rs4075307	NP_078999	P	L	PL	probably damaging
rs4075307	NP_891554	P	L	PL	probably damaging
rs4076029	NP_071881	A	T	AT	benign
rs4076700	NP_036306	R	Q	RQ	benign
rs4076700	NP_699179	R	Q	RQ	benign
rs4076770	NP_055598	T	I	TI	benign
rs4076770	NP_955389	T	I	TI	possibly damaging
rs4076794	NP_849150	D	E	DE	benign
rs4076795	NP_849150	E	D	ED	benign
rs4077005	XP_496731	E	G	EG	possibly damaging
rs4077109	NP_004534	T	A	TA	benign

rs4077515	NP_434700	S	N	SN	benign
rs4077812	NP_659443	K	E	KE	benign
rs4077930	NP_689752	G	S	GS	benign
rs4078115	NP_940933	S	G	SG	benign
rs4078556	XP_372941	A	G	AG	benign
rs4078634	XP_496202	N	D	ND	possibly damaging
rs4078883	XP_497621	G	S	GS	benign
rs4079061	NP_000413	H	R	HR	probably damaging
rs4079166	XP_497500	V	M	VM	benign
rs4079290	XP_496049	D	A	DA	possibly damaging
rs4079290	NP_775884	D	A	DA	possibly damaging
rs4079291	XP_496049	R	C	RC	benign
rs4079291	NP_775884	R	C	RC	benign
rs4079328	NP_775884	L	V	LV	benign
rs4079329	NP_775884	H	D	HD	possibly damaging
rs4079330	NP_775884	A	S	AS	benign
rs4079344	XP_377446	C	F	CF	benign
rs4079366	NP_085079	H	R	HR	benign
rs4079366	NP_000755	H	R	HR	benign
rs4079642	XP_496049	D	N	DN	benign
rs4079642	NP_775884	D	N	DN	benign
rs4079744	XP_291396	R	H	RH	benign
rs4079824	XP_496798	T	A	TA	benign
rs4080076	NP_072053	N	K	NK	benign
rs4080076	NP_072054	N	K	NK	benign
rs4080076	NP_072055	N	K	NK	benign
rs4080076	NP_000506	N	K	NK	benign
rs4080145	NP_061759	R	S	RS	probably damaging
rs4080263	XP_375344	T	A	TA	benign
rs4080719	NP_005304	D	Y	DY	possibly damaging
rs4080958	NP_055222	Q	R	QR	benign
rs4080958	NP_741979	Q	R	QR	benign
rs4080958	NP_741980	Q	R	QR	benign
rs4080958	NP_741981	Q	R	QR	benign
rs4081187	XP_370715	Q	P	QP	benign
rs4081196	XP_495840	G	A	GA	benign
rs4081197	XP_495840	G	S	GS	benign
rs4081343	XP_496343	C	R	CR	possibly damaging
rs4081343	XP_496345	C	R	CR	possibly damaging
rs4081382	NP_055568	I	V	IV	benign
rs4081569	NP_039228	L	S	LS	possibly damaging
rs4082155	NP_036403	P	L	PL	benign
rs4082155	NP_054878	P	L	PL	benign
rs4082354	XP_372092	K	T	KT	benign
rs4082354	XP_497031	K	T	KT	possibly damaging
rs4082360	NP_055087	A	T	AT	benign



rs4082530	XP_495917	V	L	VL	benign
rs4082733	NP_077318	D	V	DV	probably damaging
rs4082929	NP_001763	R	W	RW	possibly damaging
rs4083018	XP_496692	I	T	IT	benign
rs4083122	XP_370660	L	F	LF	benign
rs4084080	XP_166227	K	T	KT	possibly damaging
rs4084209	XP_372436	V	E	VE	probably damaging
rs4084603	XP_379275	D	N	DN	benign
rs4084699	XP_210365	L	M	LM	benign
rs4084790	XP_497517	F	I	FI	benign
rs4084822	NP_002175	Q	H	QH	benign
rs4084824	NP_002175	E	K	EK	benign
rs4084962	XP_370939	S	N	SN	benign
rs4086439	XP_498326	H	N	HN	benign
rs4086439	XP_498328	H	N	HN	benign
rs4086440	XP_498326	N	K	NK	benign
rs4086440	XP_498328	N	K	NK	benign
rs4087790	NP_112234	E	G	EG	probably damaging
rs4087943	XP_372548	R	H	RH	benign
rs4088092	XP_371424	P	L	PL	benign
rs4089744	NP_073153	S	F	SF	benign
rs4089745	NP_073153	N	K	NK	benign
rs4089952	XP_496394	F	L	FL	possibly damaging
rs4090319	XP_371111	T	M	TM	benign
rs4092743	NP_003209	L	V	LV	benign
rs4092743	NP_059523	L	V	LV	benign
rs4094020	XP_496692	V	D	VD	possibly damaging
rs4094022	XP_496692	M	V	MV	benign
rs4094357	XP_495896	V	M	VM	probably damaging
rs4094946	NP_037447	Q	E	QE	benign
rs4094946	NP_954869	Q	E	QE	benign
rs4094946	NP_954870	Q	E	QE	benign
rs4095564	NP_001066	A	T	AT	possibly damaging
rs4095667	XP_372190	R	W	RW	benign
rs4095853	XP_377797	T	I	TI	benign
rs4096218	XP_372632	I	V	IV	benign
rs4096557	XP_496692	H	Q	HQ	benign
rs4098165	XP_495965	L	S	LS	benign
rs4098273	NP_066188	S	C	SC	benign
rs4098706	XP_498326	V	I	VI	benign
rs4100180	XP_047554	G	D	GD	benign
rs4100180	XP_047550	G	D	GD	benign
rs4100182	XP_047554	C	Y	CY	probably damaging
rs4100182	XP_047550	C	Y	CY	probably damaging
rs4100183	XP_047554	P	T	PT	probably damaging
rs4100183	XP_047550	P	T	PT	probably damaging

rs4100184	XP_047554	K	E	KE	benign
rs4100184	XP_047550	K	E	KE	benign
rs4101176	XP_496266	S	N	SN	benign
rs4101859	XP_496593	G	V	GV	benign
rs4101860	XP_496593	F	L	FL	benign
rs4101860	XP_292982	F	L	FL	benign
rs4102539	XP_371511	V	A	VA	possibly damaging
rs4103913	XP_496692	V	M	VM	benign
rs4104582	XP_496692	C	Y	CY	probably damaging
rs4104611	XP_496692	S	F	SF	benign
rs4107048	XP_372543	S	N	SN	benign
rs4107584	XP_496601	K	N	KN	benign
rs4107585	XP_496601	I	T	IT	benign
rs4108238	XP_495891	R	Q	RQ	benign
rs4108238	XP_061890	Q	R	QR	possibly damaging
rs4108239	XP_495891	L	V	LV	benign
rs4108239	XP_061890	V	L	VL	benign
rs4109777	NP_009086	T	I	TI	probably damaging
rs4109778	NP_009086	G	R	GR	benign
rs4111296	XP_165533	V	I	VI	benign
rs4113153	XP_497652	R	W	RW	probably damaging
rs4113481	XP_497071	T	M	TM	benign
rs4113719	XP_496692	M	T	MT	benign
rs4114105	XP_372941	G	D	GD	possibly damaging
rs4114106	XP_372941	A	T	AT	benign
rs4114298	XP_039702	K	N	KN	benign
rs4115375	XP_371304	R	C	RC	benign
rs4115375	XP_371302	R	C	RC	benign
rs4115506	NP_982273	A	V	AV	benign
rs4116240	XP_375344	V	A	VA	benign
rs4116992	XP_372424	S	A	SA	benign
rs4117966	XP_071093	C	Y	CY	probably damaging
rs4118032	XP_208058	R	P	RP	possibly damaging
rs4118033	XP_208058	E	K	EK	benign
rs4118127	XP_115100	V	F	VF	possibly damaging
rs4118646	XP_496691	V	A	VA	benign
rs4118647	XP_496692	N	I	NI	probably damaging
rs4118699	XP_496692	L	P	LP	possibly damaging
rs4118821	XP_496541	E	K	EK	benign
rs4119406	XP_496692	D	Y	DY	benign
rs4119420	XP_496692	F	L	FL	benign
rs4121657	NP_005924	S	P	SP	possibly damaging
rs4125931	XP_496691	P	A	PA	benign
rs4128458	NP_005549	K	E	KE	benign
rs4129008	NP_112218	R	Q	RQ	benign
rs4129009	NP_112218	I	L	IL	benign

rs4129190	NP_060741	E	G	EG	benign
rs4129456	XP_371369	K	R	KR	benign
rs4130100	NP_037493	R	K	RK	benign
rs4130101	NP_037493	L	I	LI	benign
rs4130106	NP_055312	E	Q	EQ	benign
rs4130426	NP_694534	S	F	SF	possibly damaging
rs4131108	NP_005493	M	L	ML	possibly damaging
rs4131311	NP_004246	K	N	KN	possibly damaging
rs4132182	NP_938018	R	Q	RQ	possibly damaging
rs4132835	NP_078810	R	C	RC	possibly damaging
rs4132935	XP_291321	S	F	SF	benign
rs4133735	NP_078993	S	I	SI	possibly damaging
rs4134436	NP_002205	E	D	ED	benign
rs4134897	NP_620834	C	S	CS	probably damaging
rs4134897	NP_620835	C	S	CS	probably damaging
rs4134897	NP_647476	C	S	CS	probably damaging
rs4134973	NP_001940	G	R	GR	possibly damaging
rs4134982	NP_001940	D	N	DN	benign
rs4135010	NP_001245	T	A	TA	benign
rs4135012	NP_001245	D	N	DN	benign
rs4135013	NP_001245	T	M	TM	possibly damaging
rs4135016	NP_001245	R	H	RH	possibly damaging
rs4135113	NP_003202	G	S	GS	possibly damaging
rs4135384	NP_001895	M	V	MV	benign
rs4140446	NP_055426	S	N	SN	benign
rs4140555	NP_476503	Y	S	YS	probably damaging
rs4140555	NP_061990	Y	S	YS	probably damaging
rs4140966	NP_003259	F	L	FL	benign
rs4140968	NP_076411	I	V	IV	benign
rs4141691	XP_291170	Q	R	QR	benign
rs4141841	NP_113689	A	V	AV	benign
rs4141841	NP_061731	A	V	AV	benign
rs4142048	NP_071412	H	R	HR	benign
rs4142867	NP_085079	D	E	DE	possibly damaging
rs4142867	NP_000755	D	E	DE	possibly damaging
rs4143218	NP_694962	S	T	ST	benign
rs4143221	NP_573440	P	T	PT	probably damaging
rs4143307	NP_058628	A	G	AG	benign
rs4143455	NP_061761	V	M	VM	benign
rs4143582	XP_498461	F	L	FL	benign
rs4143582	XP_496929	F	L	FL	benign
rs4143585	NP_699194	T	A	TA	benign
rs4143586	NP_699194	I	T	IT	benign
rs4143653	NP_006855	R	H	RH	benign
rs4143752	NP_000417	K	Q	KQ	benign
rs4144164	NP_059117	H	Y	HY	possibly damaging

rs4144691	NP_997400	V	L	VL	benign
rs4144901	NP_002510	L	F	LF	benign
rs4145046	NP_005458	N	H	NH	possibly damaging
rs4145257	NP_055310	N	Y	NY	possibly damaging
rs4145748	NP_852478	T	M	TM	benign
rs4145756	NP_060098	A	G	AG	benign
rs4145854	XP_372535	F	V	FV	possibly damaging
rs4145944	NP_065186	S	T	ST	benign
rs4146129	NP_631895	N	K	NK	possibly damaging
rs4146129	NP_004028	N	K	NK	possibly damaging
rs4146577	NP_000935	K	Q	KQ	possibly damaging
rs4146960	NP_689786	R	C	RC	benign
rs4147558	NP_005785	A	T	AT	benign
rs4147558	NP_878912	A	T	AT	benign
rs4147617	NP_001503	T	A	TA	benign
rs4147630	NP_004533	L	V	LV	benign
rs4147793	NP_002483	Y	H	YH	possibly damaging
rs4147918	NP_150651	Q	R	QR	benign
rs4147918	NP_061985	Q	R	QR	benign
rs4147934	NP_150651	S	A	SA	benign
rs4147934	NP_061985	S	A	SA	benign
rs4147979	NP_009099	G	S	GS	benign
rs4148077	NP_064730	A	T	AT	benign
rs4148077	NP_064731	A	T	AT	benign
rs4148077	NP_064720	A	T	AT	benign
rs4148211	NP_071882	Y	C	YC	probably damaging
rs4148217	NP_071882	T	K	TK	possibly damaging
rs4148254	NP_003351	P	L	PL	probably damaging
rs4148269	NP_001067	T	K	TK	possibly damaging
rs4148301	NP_006789	G	R	GR	probably damaging
rs4148304	NP_006789	V	I	VI	benign
rs4148323	NP_000454	G	R	GR	benign
rs4148356	NP_063953	R	Q	RQ	benign
rs4148356	NP_063955	R	Q	RQ	benign
rs4148356	NP_063956	R	Q	RQ	benign
rs4148356	NP_063957	R	Q	RQ	benign
rs4148356	NP_004987	R	Q	RQ	benign
rs4148400	NP_000383	K	Q	KQ	benign
rs4148460	NP_005836	C	G	CG	probably damaging
rs4148619	NP_000343	V	M	VM	benign
rs4148725	NP_000483	R	W	RW	probably damaging
rs4148756	NP_036221	A	S	AS	benign
rs4148844	NP_009119	V	I	VI	benign
rs4148873	NP_000535	I	V	IV	benign
rs4148873	NP_061313	I	V	IV	benign
rs4148876	NP_000535	R	C	RC	possibly damaging

rs4148880	NP_000584	I	V	IV	benign
rs4149056	NP_006437	V	A	VA	possibly damaging
rs4149117	NP_062818	S	A	SA	benign
rs4149251	NP_001970	S	I	SI	benign
rs4149313	NP_005493	I	M	IM	benign
rs4149416	NP_055280	E	D	ED	benign
rs4149584	NP_001056	R	Q	RQ	benign
rs4149637	NP_001056	P	L	PL	probably damaging
rs4149751	NP_000124	T	P	TP	possibly damaging
rs4149796	NP_004194	R	C	RC	possibly damaging
rs4149796	NP_872629	R	C	RC	probably damaging
rs4149800	NP_004194	P	R	PR	probably damaging
rs4149839	NP_006770	N	S	NS	benign
rs4149864	NP_003677	V	I	VI	benign
rs4149864	NP_569082	V	I	VI	benign
rs4149865	NP_003677	R	G	RG	probably damaging
rs4149865	NP_569082	R	G	RG	probably damaging
rs4149909	NP_569082	N	S	NS	benign
rs4149909	NP_003677	N	S	NS	possibly damaging
rs4149910	NP_569082	N	S	NS	benign
rs4149910	NP_003677	N	S	NS	possibly damaging
rs4149962	NP_003677	D	N	DN	benign
rs4149962	NP_569082	D	N	DN	benign
rs4149963	NP_003677	T	M	TM	benign
rs4149963	NP_569082	T	M	TM	benign
rs4149964	NP_003677	S	Y	SY	possibly damaging
rs4149964	NP_569082	S	Y	SY	possibly damaging
rs4149965	NP_003677	V	M	VM	benign
rs4149965	NP_569082	V	M	VM	benign
rs4149966	NP_003677	V	L	VL	benign
rs4149966	NP_569082	V	L	VL	benign
rs4149967	NP_569082	R	T	RT	possibly damaging
rs4149967	NP_003677	R	T	RT	probably damaging
rs4149978	NP_003677	R	Q	RQ	benign
rs4149978	NP_569082	R	Q	RQ	benign
rs4150001	NP_003677	G	E	GE	benign
rs4150001	NP_569082	G	E	GE	benign
rs4150050	NP_004345	L	V	LV	benign
rs4150051	NP_004345	E	G	EG	possibly damaging
rs4150147	NP_647610	R	H	RH	benign
rs4150147	NP_005670	R	H	RH	possibly damaging
rs4150151	NP_647610	S	L	SL	benign
rs4150151	NP_005670	S	L	SL	possibly damaging
rs4150165	NP_647610	H	Y	HY	possibly damaging
rs4150165	NP_005670	H	Y	HY	possibly damaging
rs4150167	NP_647610	G	R	GR	possibly damaging

rs4150167	NP_005670	G	R	GR	probably damaging
rs4150170	NP_647610	P	L	PL	benign
rs4150170	NP_005670	P	L	PL	possibly damaging
rs4150172	NP_647610	A	G	AG	benign
rs4150172	NP_005670	A	G	AG	benign
rs4150173	NP_647610	G	S	GS	benign
rs4150175	NP_647610	T	M	TM	benign
rs4150175	NP_005670	T	M	TM	benign
rs4150176	NP_647610	R	H	RH	benign
rs4150176	NP_005670	R	H	RH	possibly damaging
rs4150187	NP_848547	P	A	PA	possibly damaging
rs4150188	NP_848547	G	R	GR	possibly damaging
rs4150295	NP_000114	H	R	HR	possibly damaging
rs4150313	NP_000114	Q	R	QR	possibly damaging
rs4150315	NP_000114	E	K	EK	benign
rs4150318	NP_000114	V	I	VI	benign
rs4150319	NP_000114	V	L	VL	benign
rs4150342	NP_000114	N	S	NS	benign
rs4150387	NP_000114	R	H	RH	probably damaging
rs4150521	NP_000113	S	L	SL	possibly damaging
rs4150522	NP_000113	S	P	SP	benign
rs4150603	NP_005307	R	W	RW	probably damaging
rs4150636	NP_005307	S	F	SF	possibly damaging
rs4150665	NP_005307	L	V	LV	benign
rs4151027	NP_000439	S	L	SL	benign
rs4151029	NP_000439	R	H	RH	possibly damaging
rs4151030	NP_000439	D	E	DE	benign
rs4151031	NP_000439	R	K	RK	benign
rs4151032	NP_000439	P	S	PS	benign
rs4151033	NP_000439	E	K	EK	benign
rs4151034	NP_000439	D	N	DN	benign
rs4151060	NP_003930	A	S	AS	benign
rs4151060	NP_378663	A	S	AS	benign
rs4151131	NP_004103	R	C	RC	probably damaging
rs4151534	NP_000312	Q	K	QK	probably damaging
rs4151539	NP_000312	A	G	AG	benign
rs4151553	NP_005758	C	W	CW	possibly damaging
rs4151643	NP_620419	R	W	RW	probably damaging
rs4151648	NP_000054	R	C	RC	probably damaging
rs4151651	NP_001701	G	S	GS	benign
rs4151659	NP_001701	K	E	KE	benign
rs4151660	NP_001701	D	E	DE	benign
rs4151667	NP_001701	L	H	LH	possibly damaging
rs4233046	XP_060417	H	R	HR	benign
rs4233046	XP_372840	R	H	RH	possibly damaging
rs4233050	NP_689585	T	M	TM	benign

rs4233367	NP_005090	R	Q	RQ	benign
rs4233507	NP_000769	S	F	SF	benign
rs4235127	NP_444267	L	H	LH	probably damaging
rs4235380	XP_209656	S	N	SN	benign
rs4236176	NP_872358	L	P	LP	possibly damaging
rs4236203	NP_006515	Y	F	YF	probably damaging
rs4236655	NP_848658	Q	E	QE	benign
rs4237768	XP_291977	W	R	WR	possibly damaging
rs4238001	NP_005496	G	S	GS	possibly damaging
rs4238485	NP_064596	E	D	ED	benign
rs4239022	NP_004198	P	Q	PQ	benign
rs4239529	NP_037530	H	L	HL	benign
rs4239540	NP_115528	V	F	VF	benign
rs4239541	NP_115528	P	Q	PQ	benign
rs4239550	NP_005806	K	N	KN	benign
rs4239634	XP_038604	L	P	LP	benign
rs4241069	XP_496691	E	K	EK	benign
rs4241344	XP_376060	R	S	RS	benign
rs4242182	NP_002440	M	T	MT	benign
rs4242746	NP_055704	I	V	IV	benign
rs4244171	XP_372825	R	G	RG	benign
rs4244355	NP_003569	A	T	AT	benign
rs4245191	NP_733840	A	E	AE	benign
rs4245191	NP_078894	A	E	AE	benign
rs4245219	XP_166918	E	D	ED	benign
rs4245575	NP_056226	E	D	ED	benign
rs4247303	NP_006455	R	W	RW	possibly damaging
rs4247475	XP_372094	S	N	SN	benign
rs4247594	XP_171032	E	K	EK	benign
rs4247667	XP_495821	Q	R	QR	benign
rs4247892	XP_496692	S	I	SI	benign
rs4248781	XP_208847	G	D	GD	possibly damaging
rs4248781	XP_497431	G	D	GD	possibly damaging
rs4248782	XP_497431	M	L	ML	benign
rs4248782	XP_208847	M	L	ML	possibly damaging
rs4248794	XP_380107	A	S	AS	benign
rs4251469	NP_057207	S	R	SR	benign
rs4251545	NP_057207	A	T	AT	benign
rs4251583	NP_057207	H	R	HR	possibly damaging
rs4251813	NP_002650	E	G	EG	probably damaging
rs4251878	NP_002650	R	Q	RQ	probably damaging
rs4251921	NP_002650	N	K	NK	benign
rs4252070	NP_000292	E	K	EK	benign
rs4252119	NP_000292	R	W	RW	benign
rs4252125	NP_000292	D	N	DN	benign
rs4252128	NP_000292	A	V	AV	benign

rs4252129	NP_000292	R	W	RW	benign
rs4252186	NP_000292	H	Q	HQ	probably damaging
rs4252187	NP_000292	R	H	RH	possibly damaging
rs4252233	NP_003178	T	M	TM	probably damaging
rs4252250	NP_001549	L	V	LV	benign
rs4252272	NP_001549	S	G	SG	benign
rs4252273	NP_001549	R	Q	RQ	benign
rs4252303	NP_001549	V	I	VI	benign
rs4252315	NP_003230	T	M	TM	benign
rs4252499	NP_062815	A	T	AT	benign
rs4252509	NP_062815	L	F	LF	benign
rs4252548	NP_000632	R	H	RH	benign
rs4252576	NP_000632	V	M	VM	benign
rs4252589	NP_001532	G	S	GS	benign
rs4252633	NP_004439	W	C	WC	probably damaging
rs4252716	NP_002384	I	T	IT	benign
rs4252741	NP_002384	T	I	TI	benign
rs4252903	NP_006826	V	I	VI	benign
rs4253046	NP_000115	D	A	DA	possibly damaging
rs4253072	NP_736609	K	R	KR	benign
rs4253199	NP_000115	T	M	TM	possibly damaging
rs4253206	NP_000115	Y	C	YC	probably damaging
rs4253208	NP_000115	P	R	PR	possibly damaging
rs4253211	NP_000115	R	P	RP	possibly damaging
rs4253218	NP_000115	V	L	VL	benign
rs4253219	NP_000115	G	V	GV	possibly damaging
rs4253227	NP_000115	G	R	GR	probably damaging
rs4253228	NP_000115	G	R	GR	benign
rs4253229	NP_000115	G	R	GR	benign
rs4253230	NP_000115	T	I	TI	benign
rs4253257	NP_000883	A	T	AT	benign
rs4253301	NP_000883	S	A	SA	benign
rs4253316	NP_000883	Q	P	QP	probably damaging
rs4253325	NP_000883	R	Q	RQ	benign
rs4253373	NP_000883	H	Q	HQ	benign
rs4253376	NP_000883	S	C	SC	benign
rs4253377	NP_000883	F	V	FV	possibly damaging
rs4253379	NP_000883	T	A	TA	possibly damaging
rs4253440	NP_005185	G	S	GS	benign
rs4253527	NP_005402	R	W	RW	probably damaging
rs4253886	NP_115612	S	C	SC	benign
rs4254075	NP_958831	L	I	LI	benign
rs4255378	NP_872626	D	V	DV	benign
rs4255378	NP_004419	D	V	DV	benign
rs4255412	NP_003813	E	K	EK	benign
rs4255412	NP_995582	E	K	EK	benign



rs4255614	NP_060918	R	K	RK	benign
rs4261099	XP_375747	R	C	RC	benign
rs4261239	NP_055568	Q	E	QE	benign
rs4262421	XP_496691	E	D	ED	benign
rs4262766	NP_001908	G	V	GV	probably damaging
rs4263028	NP_116038	V	I	VI	benign
rs4263741	NP_689778	E	K	EK	benign
rs4264113	NP_065071	E	D	ED	benign
rs4264326	XP_290629	V	A	VA	benign
rs4267245	NP_079010	V	A	VA	benign
rs4267686	NP_937870	Q	H	QH	benign
rs4267686	NP_940832	Q	H	QH	benign
rs4267686	NP_937873	Q	H	QH	benign
rs4267943	NP_060602	G	R	GR	benign
rs4270749	NP_114040	A	V	AV	benign
rs4270749	NP_054724	A	V	AV	benign
rs4270749	NP_061733	A	V	AV	benign
rs4270749	NP_114063	A	V	AV	benign
rs4270973	XP_209910	T	M	TM	benign
rs4272284	NP_733751	V	L	VL	benign
rs4272533	NP_775794	A	V	AV	benign
rs4272592	NP_031378	Q	L	QL	benign
rs4272658	NP_005637	H	P	HP	probably damaging
rs4272850	XP_044062	V	I	VI	benign
rs4273935	NP_056207	M	L	ML	benign
rs4274008	NP_997239	R	T	RT	benign
rs4274188	NP_473372	D	N	DN	benign
rs4274349	XP_170749	R	T	RT	benign
rs4275364	NP_055311	H	P	HP	probably damaging
rs4277274	NP_004443	D	Y	DY	possibly damaging
rs4278369	NP_006608	V	A	VA	benign
rs4279156	XP_094074	E	K	EK	benign
rs4280046	NP_005752	S	Y	SY	benign
rs4280164	NP_777573	S	N	SN	benign
rs4280359	NP_037512	F	L	FL	benign
rs4282140	XP_496692	P	T	PT	possibly damaging
rs4282800	XP_375747	V	D	VD	benign
rs4283414	XP_051221	G	R	GR	benign
rs4284020	NP_060877	Y	H	YH	possibly damaging
rs4284686	NP_064706	L	M	LM	benign
rs4285708	XP_291396	K	T	KT	benign
rs4285708	XP_496345	K	T	KT	benign
rs4285727	XP_498755	N	K	NK	benign
rs4286866	XP_069623	S	A	SA	possibly damaging
rs4287607	NP_065838	S	L	SL	benign
rs4287691	XP_375639	V	L	VL	benign

rs4288756	XP_290517	Q	H	QH	benign
rs4289289	NP_037488	W	R	WR	benign
rs4289320	NP_055197	E	K	EK	possibly damaging
rs4289924	XP_376866	M	V	MV	benign
rs4289924	XP_372110	M	V	MV	benign
rs4290234	NP_620060	H	P	HP	probably damaging
rs4290234	NP_620063	H	P	HP	probably damaging
rs4290234	NP_055895	H	P	HP	probably damaging
rs4291471	NP_115640	H	Q	HQ	possibly damaging
rs4292082	NP_065986	S	L	SL	benign
rs4292261	XP_496642	M	L	ML	benign
rs4294502	NP_660153	N	D	ND	benign
rs4294894	NP_079490	D	Y	DY	probably damaging
rs4295930	XP_372789	D	G	DG	possibly damaging
rs4296098	NP_115606	K	Q	KQ	benign
rs4297482	XP_373413	S	A	SA	benign
rs4298923	XP_497298	M	T	MT	benign
rs4299243	NP_005248	H	N	HN	possibly damaging
rs4299484	XP_036988	R	Q	RQ	benign
rs4300683	NP_002539	T	I	TI	possibly damaging
rs4301615	NP_003166	H	D	HD	benign
rs4301642	XP_497650	G	R	GR	possibly damaging
rs4301822	NP_001629	I	T	IT	benign
rs4302261	XP_372958	T	M	TM	benign
rs4302324	NP_054858	M	R	MR	probably damaging
rs4302331	NP_000395	R	C	RC	possibly damaging
rs4303121	NP_899228	H	Q	HQ	benign
rs4304271	NP_002702	E	K	EK	benign
rs4304840	NP_525126	S	G	SG	benign
rs4306647	NP_060322	R	K	RK	benign
rs4307514	NP_671726	A	T	AT	benign
rs4307515	XP_378185	S	T	ST	benign
rs4307536	NP_036556	D	V	DV	probably damaging
rs4307581	XP_497650	D	H	DH	probably damaging
rs4308917	XP_372755	A	P	AP	benign
rs4309825	XP_114415	M	T	MT	probably damaging
rs4310744	XP_372494	M	V	MV	benign
rs4311877	NP_057081	L	V	LV	benign
rs4313620	NP_002275	S	T	ST	benign
rs4317244	NP_859077	T	S	TS	benign
rs4318060	XP_171581	S	L	SL	benign
rs4320729	NP_689585	R	G	RG	possibly damaging
rs4320994	NP_005752	P	L	PL	probably damaging
rs4321984	NP_006412	D	Y	DY	benign
rs4322205	NP_002591	E	K	EK	probably damaging
rs4322271	XP_294997	G	R	GR	probably damaging

rs4323045	NP_000194	A	G	AG	benign
rs4323587	XP_379639	G	R	GR	benign
rs4323587	XP_499140	L	F	LF	benign
rs4323608	NP_076987	S	N	SN	possibly damaging
rs4323722	XP_497650	S	C	SC	probably damaging
rs4323762	NP_899228	L	V	LV	benign
rs4326682	XP_372789	D	G	DG	possibly damaging
rs4327235	NP_004534	P	L	PL	probably damaging
rs4327858	XP_498284	L	F	LF	benign
rs4329068	NP_114442	R	K	RK	benign
rs4329068	NP_061740	R	K	RK	possibly damaging
rs4329510	NP_067012	V	G	VG	possibly damaging
rs4329708	NP_689929	S	R	SR	benign
rs4331613	NP_203744	Q	H	QH	possibly damaging
rs4332350	NP_663320	R	L	RL	benign
rs4332566	NP_003796	L	I	LI	benign
rs4332885	XP_497894	E	K	EK	benign
rs4335271	NP_665801	R	W	RW	probably damaging
rs4335271	NP_665799	R	W	RW	probably damaging
rs4339026	NP_872325	D	G	DG	possibly damaging
rs4340274	NP_004571	L	F	LF	possibly damaging
rs4340274	NP_899057	L	F	LF	possibly damaging
rs4340274	NP_899058	L	F	LF	possibly damaging
rs4340274	NP_899059	L	F	LF	possibly damaging
rs4340795	NP_938019	V	I	VI	benign
rs4341168	XP_209910	L	F	LF	benign
rs4341770	NP_001162	V	A	VA	benign
rs4342887	NP_006836	L	I	LI	benign
rs4343826	NP_000834	V	G	VG	probably damaging
rs4345105	NP_001598	L	M	LM	benign
rs4345976	NP_006380	A	S	AS	benign
rs4348947	NP_006154	R	P	RP	possibly damaging
rs4349559	XP_373038	R	K	RK	benign
rs4349946	XP_047083	C	R	CR	probably damaging
rs4350211	NP_075390	F	L	FL	benign
rs4351743	NP_057253	D	A	DA	probably damaging
rs4351862	NP_056150	S	F	SF	possibly damaging
rs4353120	XP_498755	Y	D	YD	benign
rs4354242	NP_942150	L	V	LV	benign
rs4354673	XP_291977	K	T	KT	benign
rs4354909	XP_031706	Y	S	YS	probably damaging
rs4356090	XP_497745	A	G	AG	benign
rs4356110	XP_496394	F	L	FL	benign
rs4356288	NP_109592	S	R	SR	benign
rs4356288	NP_002839	S	R	SR	benign
rs4356288	NP_109596	S	R	SR	benign

rs4356288	NP_109595	S	R	SR	possibly damaging
rs4356408	NP_060843	V	I	VI	benign
rs4356851	NP_078789	S	L	SL	benign
rs4357719	XP_372366	I	V	IV	benign
rs4358188	NP_001716	K	E	KE	benign
rs4358434	XP_373027	G	S	GS	possibly damaging
rs4359840	NP_004059	K	N	KN	benign
rs4360492	NP_002817	R	M	RM	possibly damaging
rs4361282	XP_114303	E	D	ED	benign
rs4362017	XP_291439	A	S	AS	benign
rs4362100	XP_495821	E	K	EK	benign
rs4362101	XP_495821	D	E	DE	benign
rs4362173	XP_372366	I	V	IV	benign
rs4362296	XP_058661	Y	N	YN	probably damaging
rs4362322	XP_040910	Q	E	QE	benign
rs4362589	NP_000375	I	L	IL	benign
rs4363527	NP_004184	E	G	EG	possibly damaging
rs4363911	NP_004095	S	F	SF	possibly damaging
rs4365474	NP_775916	Q	L	QL	possibly damaging
rs4365833	NP_001438	G	V	GV	probably damaging
rs4366124	XP_372097	A	T	AT	benign
rs4366124	XP_372090	A	T	AT	possibly damaging
rs4366679	NP_997238	A	T	AT	benign
rs4367963	NP_006628	L	S	LS	possibly damaging
rs4369319	NP_660203	R	H	RH	benign
rs4369632	XP_370837	K	T	KT	benign
rs4369632	XP_370917	K	T	KT	benign
rs4369791	NP_996777	T	S	TS	benign
rs4369876	NP_002968	V	L	VL	benign
rs4370558	NP_004736	Q	L	QL	probably damaging
rs4370606	NP_065975	D	Y	DY	possibly damaging
rs4371546	NP_733762	P	S	PS	probably damaging
rs4371716	NP_004052	V	M	VM	probably damaging
rs4372733	NP_002463	E	G	EG	probably damaging
rs4373715	NP_061486	S	I	SI	possibly damaging
rs4373715	NP_005553	S	I	SI	possibly damaging
rs4373753	NP_004714	E	K	EK	benign
rs4375699	NP_055380	H	R	HR	possibly damaging
rs4375725	NP_061184	M	L	ML	possibly damaging
rs4378003	NP_116291	T	A	TA	benign
rs4378600	NP_113651	C	S	CS	benign
rs4379511	XP_208403	M	V	MV	benign
rs4379869	NP_060837	I	V	IV	benign
rs4380102	NP_000517	D	Y	DY	probably damaging
rs4381168	NP_065173	K	N	KN	benign
rs4381906	NP_036228	A	V	AV	benign

rs4382952	NP_006567	A	P	AP	benign
rs4383384	NP_060549	R	K	RK	benign
rs4384236	XP_372763	R	P	RP	probably damaging
rs4384262	XP_291485	R	C	RC	probably damaging
rs4384572	NP_871629	G	S	GS	possibly damaging
rs4387080	XP_372108	L	R	LR	possibly damaging
rs4387520	NP_057334	S	Y	SY	benign
rs4387520	NP_963294	S	Y	SY	benign
rs4387520	NP_963832	S	Y	SY	benign
rs4387520	NP_963835	S	Y	SY	benign
rs4387520	NP_963834	S	Y	SY	benign
rs4387696	NP_002772	N	K	NK	possibly damaging
rs4388488	NP_570901	P	Q	PQ	benign
rs4389105	NP_997238	Y	H	YH	possibly damaging
rs4389403	XP_066243	A	T	AT	benign
rs4389841	XP_376720	R	Q	RQ	benign
rs4390302	NP_008886	E	G	EG	possibly damaging
rs4391498	NP_066929	D	Y	DY	possibly damaging
rs4391498	NP_570613	D	Y	DY	possibly damaging
rs4391660	XP_372763	V	M	VM	possibly damaging
rs4391795	XP_171536	G	S	GS	benign
rs4393101	NP_689585	G	D	GD	possibly damaging
rs4396808	NP_056520	T	I	TI	possibly damaging
rs4397384	NP_006260	L	I	LI	benign
rs4398144	XP_496215	C	R	CR	probably damaging
rs4398252	NP_000095	M	V	MV	benign
rs4399118	NP_055440	P	L	PL	probably damaging
rs4399146	NP_004485	P	L	PL	probably damaging
rs4399578	XP_496215	Q	E	QE	benign
rs4399954	XP_496692	D	A	DA	possibly damaging
rs4400031	XP_371717	T	A	TA	benign
rs4400752	XP_495821	H	Q	HQ	possibly damaging
rs4400753	XP_495821	H	D	HD	benign
rs4401027	XP_496026	T	K	TK	possibly damaging
rs4402458	NP_004265	D	H	DH	benign
rs4402461	NP_009123	M	L	ML	benign
rs4402951	NP_653234	I	N	IN	possibly damaging
rs4403594	NP_660281	D	Y	DY	probably damaging
rs4404044	XP_496026	N	D	ND	benign
rs4405289	XP_171536	P	L	PL	benign
rs4406360	NP_940866	V	A	VA	benign
rs4408324	NP_061928	R	Q	RQ	benign
rs4408370	NP_778203	R	Q	RQ	possibly damaging
rs4408370	NP_001834	R	Q	RQ	possibly damaging
rs4409714	XP_496394	K	N	KN	benign
rs4410141	NP_004685	E	V	EV	possibly damaging

rs4410209	NP_038475	T	I	TI	benign
rs4410209	NP_690880	T	I	TI	benign
rs4410209	NP_690881	T	I	TI	benign
rs4410209	NP_690882	T	I	TI	benign
rs4410209	NP_690883	T	I	TI	benign
rs4410209	NP_690884	T	I	TI	benign
rs4410209	NP_690885	T	I	TI	benign
rs4410254	NP_004396	S	Y	SY	possibly damaging
rs4410755	NP_003560	T	P	TP	benign
rs4412715	XP_495821	L	P	LP	probably damaging
rs4412838	XP_165533	L	V	LV	benign
rs4412904	XP_497390	G	S	GS	benign
rs4414223	XP_374949	N	S	NS	benign
rs4415545	XP_375747	A	G	AG	benign
rs4415972	NP_570971	S	G	SG	benign
rs4418164	NP_079083	G	C	GC	probably damaging
rs4418594	XP_086604	R	H	RH	benign
rs4418693	XP_374768	K	I	KI	probably damaging
rs4418847	NP_997313	P	A	PA	benign
rs4419053	NP_116219	A	D	AD	possibly damaging
rs4419104	NP_003623	P	R	PR	probably damaging
rs4419118	NP_071351	W	C	WC	probably damaging
rs4419794	NP_620172	R	K	RK	benign
rs4421686	XP_089747	L	M	LM	benign
rs4422143	NP_000618	A	V	AV	benign
rs4422143	NP_996826	A	V	AV	benign
rs4422842	NP_000709	N	K	NK	possibly damaging
rs4424934	NP_001788	M	I	MI	benign
rs4424934	NP_387513	M	I	MI	benign
rs4425183	XP_496493	A	S	AS	benign
rs4426333	NP_055733	Q	H	QH	benign
rs4426527	NP_000021	I	M	IM	benign
rs4427454	NP_060592	L	V	LV	benign
rs4427935	NP_694953	S	R	SR	possibly damaging
rs4429251	NP_997238	T	K	TK	benign
rs4429342	NP_114140	L	F	LF	benign
rs4429421	NP_073728	V	I	VI	benign
rs4430169	NP_066934	A	P	AP	benign
rs4430386	NP_899228	R	Q	RQ	benign
rs4430553	NP_387467	L	P	LP	possibly damaging
rs4430994	XP_372958	E	K	EK	benign
rs4433454	XP_372789	A	V	AV	benign
rs4433943	NP_001866	D	V	DV	probably damaging
rs4434123	XP_210562	T	I	TI	benign
rs4434138	NP_055951	V	I	VI	benign
rs4435385	NP_112495	T	S	TS	benign

rs4435957	NP_006611	G	S	GS	benign
rs4436392	NP_066014	E	Q	EQ	benign
rs4436524	XP_291977	C	R	CR	possibly damaging
rs4436525	XP_291977	C	R	CR	possibly damaging
rs4437065	NP_067585	K	T	KT	benign
rs4437065	NP_004318	K	T	KT	benign
rs4437756	NP_055105	V	L	VL	benign
rs4438413	XP_375646	D	N	DN	possibly damaging
rs4440563	NP_938007	D	N	DN	benign
rs4440563	NP_938008	D	N	DN	benign
rs4440563	NP_061944	D	N	DN	benign
rs4440668	NP_006188	L	V	LV	benign
rs4440844	NP_004691	V	G	VG	possibly damaging
rs4440844	NP_751895	V	G	VG	possibly damaging
rs4443061	NP_689470	I	N	IN	possibly damaging
rs4443674	XP_372040	F	L	FL	benign
rs4444599	XP_496260	I	T	IT	benign
rs4447061	XP_166140	P	S	PS	probably damaging
rs4447263	NP_116045	R	Q	RQ	benign
rs4448319	NP_038460	V	M	VM	possibly damaging
rs4448516	NP_066014	R	P	RP	possibly damaging
rs4448627	NP_078964	A	G	AG	benign
rs4449373	NP_002090	A	E	AE	benign
rs4450447	NP_777547	R	W	RW	possibly damaging
rs4451341	NP_116291	E	Q	EQ	benign
rs4452075	XP_030378	H	R	HR	possibly damaging
rs4453052	XP_497650	H	N	HN	benign
rs4453975	NP_078905	E	Q	EQ	benign
rs4454970	NP_060309	S	I	SI	benign
rs4455261	NP_004067	V	I	VI	benign
rs4456359	NP_005791	L	V	LV	benign
rs4459050	NP_848640	M	V	MV	possibly damaging
rs4459164	XP_372789	L	V	LV	benign
rs4462136	XP_372763	R	C	RC	benign
rs4462184	XP_377645	V	A	VA	benign
rs4462412	XP_498534	P	L	PL	probably damaging
rs4462638	XP_375408	A	T	AT	benign
rs4462660	NP_055498	T	I	TI	possibly damaging
rs4462745	XP_496593	Q	K	QK	benign
rs4463051	XP_496719	D	N	DN	benign
rs4463136	XP_376320	T	A	TA	benign
rs4463407	NP_002155	I	S	IS	possibly damaging
rs4463721	XP_371227	A	V	AV	benign
rs4465020	NP_694856	E	Q	EQ	benign
rs4465125	NP_775741	A	G	AG	benign
rs4465542	XP_290629	T	A	TA	benign

rs4466466	NP_005379	K	N	KN	benign
rs4466620	NP_115640	F	L	FL	benign
rs4467039	NP_002490	P	L	PL	probably damaging
rs4467098	NP_079469	G	D	GD	possibly damaging
rs4467695	NP_000834	L	V	LV	benign
rs4468625	NP_056061	D	E	DE	benign
rs4468717	NP_733796	P	S	PS	benign
rs4468717	NP_775299	P	S	PS	benign
rs4468717	NP_777480	P	S	PS	probably damaging
rs4469048	NP_055084	D	E	DE	benign
rs4469048	NP_068551	D	E	DE	benign
rs4469788	NP_003165	Y	F	YF	benign
rs4469788	NP_068506	Y	F	YF	benign
rs4469829	NP_003010	E	K	EK	benign
rs4470116	NP_955389	R	K	RK	benign
rs4470116	NP_055598	R	K	RK	benign
rs4470360	NP_061720	H	P	HP	probably damaging
rs4470483	NP_001239	E	D	ED	benign
rs4470839	XP_371813	V	G	VG	possibly damaging
rs4471066	XP_499105	C	Y	CY	benign
rs4471067	XP_499105	V	L	VL	benign
rs4471273	XP_372763	S	F	SF	benign
rs4471342	NP_002408	Q	P	QP	benign
rs4473306	NP_006856	Y	H	YH	benign
rs4474294	XP_291439	M	R	MR	probably damaging
rs4474449	XP_372436	Y	C	YC	possibly damaging
rs4474449	XP_166777	Y	C	YC	possibly damaging
rs4474837	NP_056465	S	R	SR	benign
rs4474937	NP_115597	Q	H	QH	possibly damaging
rs4475909	XP_372191	R	Q	RQ	benign
rs4477896	NP_997212	V	I	VI	benign
rs4478039	NP_002843	E	K	EK	benign
rs4478130	XP_094074	D	N	DN	benign
rs4478844	XP_372822	V	M	VM	benign
rs4479447	NP_055312	D	H	DH	possibly damaging
rs4479748	NP_699174	S	G	SG	benign
rs4480453	NP_003568	L	M	LM	benign
rs4481339	NP_000834	V	G	VG	probably damaging
rs4482466	NP_000936	L	S	LS	benign
rs4483198	NP_570901	L	V	LV	benign
rs4483803	NP_064596	D	Y	DY	possibly damaging
rs4484130	NP_852469	Y	F	YF	benign
rs4484130	NP_005641	Y	F	YF	benign
rs4486183	NP_006739	P	T	PT	benign
rs4486587	XP_374880	A	T	AT	benign
rs4487574	XP_371822	V	G	VG	possibly damaging



rs4487883	NP_659402	D	Y	DY	possibly damaging
rs4488281	NP_060069	S	I	SI	possibly damaging
rs4488969	NP_699174	D	N	DN	benign
rs4489310	NP_006739	E	D	ED	benign
rs4489790	NP_002828	I	M	IM	benign
rs4490972	NP_808225	D	N	DN	benign
rs4490972	NP_808226	D	N	DN	benign
rs4490972	NP_808223	D	N	DN	benign
rs4490972	NP_808224	D	N	DN	benign
rs4491195	XP_291816	A	G	AG	benign
rs4491934	NP_003801	S	F	SF	possibly damaging
rs4492688	NP_116222	E	K	EK	benign
rs4494160	NP_775803	A	V	AV	benign
rs4494468	XP_497390	L	I	LI	benign
rs4494683	XP_496593	T	P	TP	possibly damaging
rs4494951	NP_054768	R	Q	RQ	benign
rs4495918	XP_372366	C	F	CF	benign
rs4496303	NP_982288	A	S	AS	benign
rs4497234	NP_036234	G	E	GE	possibly damaging
rs4497919	XP_496260	S	N	SN	benign
rs4498440	NP_055266	T	A	TA	benign
rs4498440	NP_940820	T	A	TA	benign
rs4499086	XP_056680	I	L	IL	benign
rs4499134	NP_904358	E	K	EK	benign
rs4500097	XP_499105	H	P	HP	probably damaging
rs4500406	NP_775843	R	G	RG	possibly damaging
rs4500734	NP_777584	L	R	LR	benign
rs4501820	NP_003166	R	K	RK	benign
rs4501959	XP_291977	D	N	DN	benign
rs4502371	XP_372923	T	S	TS	benign
rs4503360	XP_291396	Y	S	YS	benign
rs4503752	NP_997238	H	D	HD	probably damaging
rs4503841	NP_057100	S	F	SF	possibly damaging
rs4504469	XP_376472	A	T	AT	benign
rs4505267	XP_370833	C	R	CR	benign
rs4506445	XP_375747	G	V	GV	probably damaging
rs4507047	XP_496593	L	P	LP	probably damaging
rs4507838	XP_208403	I	V	IV	benign
rs4509014	NP_057564	E	K	EK	benign
rs4509608	XP_377645	D	N	DN	possibly damaging
rs4510314	NP_056189	R	H	RH	possibly damaging
rs4511430	NP_060463	L	F	LF	benign
rs4511677	NP_061115	G	A	GA	benign
rs4513070	XP_496050	L	F	LF	possibly damaging
rs4514179	NP_085142	C	R	CR	probably damaging
rs4514247	XP_291396	R	C	RC	possibly damaging

rs4514473	NP_003796	E	K	EK	benign
rs4515815	NP_859070	H	R	HR	benign
rs4516060	NP_116045	S	G	SG	benign
rs4516605	NP_000403	S	L	SL	benign
rs4516942	XP_498102	G	S	GS	benign
rs4517595	NP_054886	L	M	LM	benign
rs4519083	NP_937828	Q	H	QH	benign
rs4519169	NP_000611	P	L	PL	probably damaging
rs4521339	XP_371691	A	T	AT	benign
rs4523540	NP_000355	N	Y	NY	possibly damaging
rs4523549	XP_291439	N	T	NT	possibly damaging
rs4523774	NP_000957	L	V	LV	benign
rs4523977	NP_817084	T	M	TM	benign
rs4523977	NP_003940	T	M	TM	possibly damaging
rs4524901	NP_055101	I	F	IF	possibly damaging
rs4525444	XP_208847	S	T	ST	benign
rs4525444	XP_497431	S	T	ST	benign
rs4525916	NP_066278	D	Y	DY	probably damaging
rs4525960	NP_056002	Y	N	YN	probably damaging
rs4526148	NP_006589	T	A	TA	benign
rs4526640	XP_498755	F	I	FI	possibly damaging
rs4527063	XP_371068	Q	R	QR	benign
rs4528317	NP_937828	Y	N	YN	probably damaging
rs4528532	NP_997238	I	V	IV	benign
rs4528541	NP_055474	G	C	GC	benign
rs4528888	NP_005956	Y	C	YC	probably damaging
rs4528888	NP_444254	Y	C	YC	probably damaging
rs4528888	NP_444255	Y	C	YC	probably damaging
rs4528888	NP_444256	Y	C	YC	probably damaging
rs4528888	NP_444257	Y	C	YC	probably damaging
rs4528888	NP_444258	Y	C	YC	probably damaging
rs4528888	NP_444253	Y	C	YC	probably damaging
rs4529373	XP_372002	Y	F	YF	benign
rs4530457	XP_496503	S	R	SR	benign
rs4533265	XP_496093	I	F	IF	benign
rs4534327	NP_115724	L	I	LI	benign
rs4536103	NP_066279	S	F	SF	benign
rs4538419	NP_001519	L	V	LV	benign
rs4538937	XP_034640	L	F	LF	possibly damaging
rs4539594	NP_006077	T	P	TP	probably damaging
rs4539653	XP_498684	G	V	GV	probably damaging
rs4539655	NP_853513	N	S	NS	benign
rs4540524	XP_497046	R	G	RG	possibly damaging
rs4541339	NP_055061	A	V	AV	benign
rs4541624	XP_380175	S	A	SA	benign
rs4542096	NP_005269	M	V	MV	possibly damaging

rs4544986	NP_002205	S	F	SF	benign
rs4545280	NP_258428	F	I	FI	benign
rs4545636	NP_057321	D	Y	DY	probably damaging
rs4546744	NP_116263	L	R	LR	benign
rs4546904	NP_065173	S	T	ST	benign
rs4548513	NP_037398	S	N	SN	possibly damaging
rs4548749	XP_372494	C	Y	CY	probably damaging
rs4549582	NP_064502	A	V	AV	benign
rs4550493	XP_496215	R	H	RH	benign
rs4550516	NP_116226	E	D	ED	benign
rs4555134	NP_689547	E	Q	EQ	benign
rs4557013	XP_371586	I	T	IT	benign
rs4557211	NP_002917	S	F	SF	possibly damaging
rs4557211	NP_937872	S	F	SF	possibly damaging
rs4557211	NP_940834	S	F	SF	possibly damaging
rs4557522	NP_579866	A	V	AV	benign
rs4557522	NP_060758	A	V	AV	benign
rs4558385	NP_060298	Y	C	YC	probably damaging
rs4559074	NP_006715	H	R	HR	probably damaging
rs4559173	NP_000457	I	R	IR	possibly damaging
rs4560893	XP_498326	G	E	GE	benign
rs4560893	XP_498328	G	E	GE	benign
rs4561035	NP_112572	N	S	NS	benign
rs4561518	NP_115948	S	P	SP	possibly damaging
rs4561519	NP_115948	G	R	GR	probably damaging
rs4561736	NP_061836	E	Q	EQ	benign
rs4561736	NP_387505	E	Q	EQ	benign
rs4561948	NP_955356	P	L	PL	probably damaging
rs4561961	NP_997235	E	Q	EQ	benign
rs4562395	NP_006435	E	K	EK	benign
rs4562958	XP_372494	V	M	VM	benign
rs4563237	XP_086937	S	F	SF	possibly damaging
rs4564058	XP_498350	E	K	EK	benign
rs4564058	XP_498407	E	K	EK	benign
rs4564704	XP_064879	L	M	LM	benign
rs4564790	NP_775783	A	T	AT	benign
rs4564894	XP_496527	A	V	AV	benign
rs4565167	XP_042066	I	T	IT	possibly damaging
rs4565430	NP_055569	E	Q	EQ	benign
rs4565902	NP_149025	E	A	EA	benign
rs4565978	NP_060069	I	T	IT	benign
rs4566088	NP_085124	R	T	RT	possibly damaging
rs4566088	NP_803187	R	T	RT	possibly damaging
rs4566183	NP_003577	T	P	TP	benign
rs4568003	XP_496260	S	G	SG	benign
rs4568063	XP_497940	I	V	IV	benign

rs4569078	NP_689802	M	I	MI	benign
rs4569397	NP_039227	L	Q	LQ	possibly damaging
rs4570322	XP_373354	R	C	RC	benign
rs4570987	XP_375646	R	H	RH	probably damaging
rs4571168	NP_005931	R	P	RP	probably damaging
rs4571280	NP_003432	E	K	EK	benign
rs4572095	XP_061890	Q	R	QR	benign
rs4572095	XP_495891	R	Q	RQ	benign
rs4573667	NP_006025	F	L	FL	benign
rs4574980	NP_006298	P	S	PS	probably damaging
rs4576240	XP_376472	T	P	TP	benign
rs4578610	NP_997238	C	R	CR	probably damaging
rs4580937	NP_078999	R	H	RH	benign
rs4580937	NP_891554	R	H	RH	possibly damaging
rs4581096	NP_116291	L	V	LV	benign
rs4581493	NP_003796	E	K	EK	benign
rs4581676	NP_005494	C	G	CG	probably damaging
rs4581766	XP_375387	E	K	EK	benign
rs4582048	NP_000711	I	M	IM	benign
rs4582772	NP_940862	T	I	TI	benign
rs4584048	XP_374406	S	F	SF	possibly damaging
rs4584886	NP_112584	W	R	WR	probably damaging
rs4584889	NP_060619	N	S	NS	benign
rs4586421	XP_058743	V	G	VG	possibly damaging
rs4587366	NP_036294	L	V	LV	benign
rs4587366	NP_078831	V	L	VL	benign
rs4587808	NP_002251	R	K	RK	possibly damaging
rs4587808	NP_031359	R	K	RK	possibly damaging
rs4589405	NP_848635	V	M	VM	benign
rs4589553	NP_001752	A	T	AT	benign
rs4590080	XP_044461	C	S	CS	probably damaging
rs4590708	XP_291439	D	N	DN	benign
rs4592451	XP_372366	S	P	SP	possibly damaging
rs4595394	XP_291439	A	G	AG	benign
rs4595780	XP_496093	C	Y	CY	probably damaging
rs4596117	NP_620385	T	P	TP	benign
rs4596117	NP_620386	T	P	TP	benign
rs4596117	NP_740750	T	P	TP	benign
rs4596117	NP_620161	T	P	TP	benign
rs4597008	NP_057196	V	G	VG	possibly damaging
rs4597168	NP_002119	P	L	PL	possibly damaging
rs4597335	NP_065769	Q	H	QH	benign
rs4597699	NP_940962	K	R	KR	benign
rs4597753	XP_496634	N	K	NK	benign
rs4598385	NP_777622	C	R	CR	benign
rs4598663	NP_937828	G	R	GR	possibly damaging

rs4598671	XP_210169	V	L	VL	benign
rs4599882	NP_001726	S	F	SF	possibly damaging
rs4600514	NP_258411	R	W	RW	possibly damaging
rs4600893	XP_496692	M	I	MI	benign
rs4601242	NP_060804	P	R	PR	probably damaging
rs4602894	NP_002309	S	W	SW	probably damaging
rs4603354	NP_006437	G	E	GE	probably damaging
rs4603404	NP_005791	R	G	RG	possibly damaging
rs4604030	NP_006578	A	T	AT	benign
rs4604043	XP_114415	E	K	EK	probably damaging
rs4604687	XP_291625	Y	S	YS	benign
rs4604687	XP_291638	Y	S	YS	benign
rs4605294	NP_001073	L	F	LF	possibly damaging
rs4606855	NP_115960	E	Q	EQ	benign
rs4607487	NP_078774	S	L	SL	benign
rs4608088	XP_370663	R	G	RG	possibly damaging
rs4608339	XP_370958	V	A	VA	benign
rs4608469	XP_496593	V	I	VI	benign
rs4608774	NP_002984	G	S	GS	possibly damaging
rs4610310	XP_496692	F	L	FL	benign
rs4612551	XP_377073	T	M	TM	possibly damaging
rs4612551	NP_878908	T	M	TM	possibly damaging
rs4613097	XP_045581	A	T	AT	benign
rs4613427	XP_067585	E	K	EK	benign
rs4613695	NP_995308	R	K	RK	benign
rs4613903	NP_789787	L	M	LM	benign
rs4614184	NP_065820	G	S	GS	benign
rs4614387	XP_495821	W	R	WR	probably damaging
rs4614723	NP_002959	I	V	IV	benign
rs4615916	XP_495798	P	H	PH	possibly damaging
rs4616580	XP_496486	K	N	KN	benign
rs4616798	NP_078905	I	M	IM	benign
rs4617632	NP_002828	D	N	DN	benign
rs4617667	NP_997321	P	L	PL	probably damaging
rs4617782	NP_848701	E	Q	EQ	possibly damaging
rs4617782	NP_848702	E	Q	EQ	possibly damaging
rs4617782	NP_002710	E	Q	EQ	possibly damaging
rs4617782	NP_848703	E	Q	EQ	possibly damaging
rs4617831	NP_714544	G	R	GR	possibly damaging
rs4618260	NP_115876	A	S	AS	benign
rs4619071	NP_689799	D	N	DN	benign
rs4619320	NP_004230	E	D	ED	benign
rs4619433	NP_061000	T	A	TA	benign
rs4619710	XP_290331	A	V	AV	benign
rs4620241	NP_002086	S	A	SA	benign
rs4621113	NP_787106	C	F	CF	probably damaging

rs4622929	XP_171032	V	I	VI	benign
rs4623201	NP_114479	S	F	SF	benign
rs4623201	NP_061736	S	F	SF	benign
rs4623217	XP_048070	T	N	TN	benign
rs4623769	NP_997668	G	R	GR	benign
rs4623769	NP_997667	G	R	GR	benign
rs4623947	NP_002828	A	S	AS	benign
rs4623981	NP_775487	G	S	GS	benign
rs4624233	NP_853513	V	A	VA	benign
rs4625290	XP_291396	D	E	DE	benign
rs4628939	XP_496093	C	S	CS	probably damaging
rs4629585	XP_371776	M	L	ML	benign
rs4629933	XP_071093	L	V	LV	benign
rs4629933	XP_373308	L	V	LV	benign
rs4630029	NP_775794	R	H	RH	benign
rs4630153	NP_037471	S	F	SF	possibly damaging
rs4631513	NP_060961	A	T	AT	benign
rs4631561	NP_000450	A	T	AT	benign
rs4631912	NP_872301	T	I	TI	possibly damaging
rs4632083	NP_061122	P	S	PS	possibly damaging
rs4632083	XP_292357	P	S	PS	possibly damaging
rs4632111	NP_004468	P	Q	PQ	possibly damaging
rs4632862	NP_598000	N	S	NS	benign
rs4633461	NP_937828	T	I	TI	benign
rs4634233	XP_049078	L	M	LM	benign
rs4635033	NP_066267	E	K	EK	benign
rs4635110	NP_803172	S	F	SF	possibly damaging
rs4635110	NP_003617	S	F	SF	possibly damaging
rs4635462	NP_689732	A	P	AP	benign
rs4636746	NP_055533	H	L	HL	probably damaging
rs4638862	NP_690857	A	T	AT	benign
rs4638862	NP_219489	A	T	AT	benign
rs4639425	NP_733751	N	D	ND	benign
rs4639950	NP_113621	I	V	IV	benign
rs4640000	XP_058513	P	A	PA	possibly damaging
rs4640157	XP_496050	K	Q	KQ	benign
rs4640464	NP_982271	D	H	DH	possibly damaging
rs4640464	NP_003886	D	H	DH	possibly damaging
rs4641048	NP_006412	Q	H	QH	benign
rs4641415	XP_495821	K	E	KE	benign
rs4641949	NP_004473	D	N	DN	benign
rs4643272	NP_078856	R	I	RI	possibly damaging
rs4643305	XP_058743	V	L	VL	benign
rs4643439	XP_497591	S	F	SF	benign
rs4643790	XP_050625	A	V	AV	benign
rs4644955	NP_776165	R	H	RH	benign

rs4645434	NP_149062	E	D	ED	benign
rs4645434	NP_892006	E	D	ED	benign
rs4645777	NP_006730	V	I	VI	benign
rs4645843	NP_000585	P	L	PL	benign
rs4645959	NP_002458	N	S	NS	possibly damaging
rs4645960	NP_002458	G	C	GC	benign
rs4645961	NP_002458	V	I	VI	benign
rs4645968	NP_002458	A	V	AV	benign
rs4646008	NP_127463	S	L	SL	benign
rs4646008	NP_001220	S	L	SL	benign
rs4646116	NP_068576	K	R	KR	benign
rs4646201	NP_003050	G	E	GE	probably damaging
rs4646227	NP_005064	G	A	GA	benign
rs4646277	NP_694857	P	L	PL	probably damaging
rs4646277	NP_003048	P	L	PL	probably damaging
rs4646278	NP_694857	R	G	RG	probably damaging
rs4646278	NP_003048	R	G	RG	probably damaging
rs4646422	NP_000490	G	D	GD	possibly damaging
rs4646487	NP_000770	R	W	RW	possibly damaging
rs4646491	NP_000770	R	C	RC	probably damaging
rs4646626	NP_003879	V	I	VI	benign
rs4646626	NP_733798	V	I	VI	benign
rs4646626	NP_733797	V	I	VI	benign
rs4646749	NP_036322	V	M	VM	benign
rs4646750	NP_036322	I	V	IV	benign
rs4646773	NP_000683	T	I	TI	benign
rs4646826	NP_000686	S	R	SR	probably damaging
rs4646832	NP_733936	G	R	GR	benign
rs4646832	NP_001071	G	R	GR	benign
rs4647105	NP_000073	Y	C	YC	probably damaging
rs4647186	NP_033666	A	G	AG	benign
rs4647186	NP_002332	S	R	SR	possibly damaging
rs4647187	NP_002332	L	F	LF	benign
rs4647201	NP_055620	A	S	AS	benign
rs4647202	NP_055620	V	F	VF	benign
rs4647297	NP_116764	V	L	VL	benign
rs4647297	NP_001215	V	L	VL	benign
rs4647298	NP_116765	A	G	AG	benign
rs4647298	NP_116766	A	G	AG	benign
rs4647298	NP_116764	P	A	PA	possibly damaging
rs4647298	NP_001215	P	A	PA	possibly damaging
rs4647338	NP_116764	R	G	RG	probably damaging
rs4647750	NP_000098	M	T	MT	possibly damaging
rs4647751	NP_000098	A	T	AT	benign
rs4647764	NP_001601	V	I	VI	benign
rs4647852	NP_001276	K	R	KR	benign

rs4647899	NP_004265	F	Y	FY	benign
rs4647924	NP_075254	P	R	PR	possibly damaging
rs4647924	NP_000133	P	R	PR	probably damaging
rs4647930	NP_068742	Q	P	QP	benign
rs4647932	NP_068742	P	L	PL	possibly damaging
rs4648065	NP_003989	T	I	TI	benign
rs4648072	NP_003989	M	V	MV	possibly damaging
rs4648085	NP_003989	T	I	TI	benign
rs4648086	NP_003989	R	K	RK	benign
rs4648099	NP_003989	H	Q	HQ	possibly damaging
rs4648118	NP_003989	A	T	AT	benign
rs4648279	NP_000954	P	A	PA	benign
rs4648506	XP_031401	G	A	GA	benign
rs4649711	XP_378185	A	G	AG	benign
rs4649852	NP_982283	T	S	TS	benign
rs4653328	NP_775912	F	I	FI	benign
rs4654934	NP_115640	K	N	KN	possibly damaging
rs4656197	NP_065156	Q	R	QR	benign
rs4656197	NP_851607	R	Q	RQ	benign
rs4656343	NP_056256	P	L	PL	benign
rs4658146	NP_940862	V	M	VM	benign
rs4658359	NP_940862	S	A	SA	benign
rs4658360	NP_940862	F	L	FL	benign
rs4659310	XP_496394	A	V	AV	benign
rs4659310	XP_375869	A	V	AV	benign
rs4659683	XP_375853	V	G	VG	possibly damaging
rs4660269	NP_861525	M	V	MV	benign
rs4661746	NP_940948	Q	R	QR	benign
rs4661801	XP_497659	H	Q	HQ	benign
rs4662743	XP_371555	R	C	RC	benign
rs4663845	NP_919288	A	V	AV	benign
rs4663870	NP_066307	V	E	VE	possibly damaging
rs4664277	XP_043492	T	A	TA	benign
rs4664950	NP_620158	Q	R	QR	benign
rs4665809	XP_372921	F	L	FL	possibly damaging
rs4666602	NP_995314	D	N	DN	possibly damaging
rs4666602	NP_038464	D	N	DN	possibly damaging
rs4667001	NP_919226	E	K	EK	benign
rs4667591	NP_004516	I	L	IL	benign
rs4667596	NP_004516	R	K	RK	benign
rs4668123	NP_004516	A	T	AT	benign
rs4668246	NP_620482	K	E	KE	benign
rs4668909	NP_056993	K	R	KR	benign
rs4669751	NP_055483	V	A	VA	benign
rs4669751	NP_683701	V	A	VA	benign
rs4669751	NP_149081	V	A	VA	benign



rs4669781	NP_663731	P	S	PS	benign
rs4670218	XP_293026	S	C	SC	possibly damaging
rs4670696	NP_036545	H	P	HP	probably damaging
rs4670779	XP_293026	A	V	AV	benign
rs4670800	NP_653314	D	G	DG	benign
rs4674318	XP_376172	C	W	CW	probably damaging
rs4674361	NP_056495	P	L	PL	benign
rs4674941	XP_371595	I	M	IM	benign
rs4675887	NP_689996	R	G	RG	possibly damaging
rs4675982	XP_297687	V	E	VE	benign
rs4676684	NP_057382	V	A	VA	benign
rs4678193	NP_002255	S	N	SN	benign
rs4679013	NP_056957	H	P	HP	probably damaging
rs4679674	XP_114355	V	A	VA	benign
rs4681031	NP_001059	E	K	EK	benign
rs4682119	XP_496655	R	L	RL	benign
rs4682752	NP_659481	M	V	MV	benign
rs4682829	XP_291064	V	G	VG	possibly damaging
rs4682830	XP_291064	A	G	AG	benign
rs4683158	NP_078789	Q	R	QR	benign
rs4684656	NP_705615	L	M	LM	benign
rs4684656	NP_705616	L	M	LM	benign
rs4684677	NP_057446	Q	L	QL	probably damaging
rs4684682	NP_899195	R	Q	RQ	possibly damaging
rs4684682	NP_109598	R	Q	RQ	possibly damaging
rs4685076	NP_077310	K	N	KN	benign
rs4686302	NP_000907	A	T	AT	benign
rs4687030	NP_940887	Y	S	YS	probably damaging
rs4687657	NP_002209	P	T	PT	possibly damaging
rs4687714	NP_001055	K	R	KR	benign
rs4687838	NP_689752	N	T	NT	benign
rs4688023	NP_071418	V	I	VI	benign
rs4688725	NP_009113	K	Q	KQ	benign
rs4688725	NP_733833	K	Q	KQ	benign
rs4688725	NP_733834	K	Q	KQ	benign
rs4688725	NP_733835	K	Q	KQ	benign
rs4688725	NP_733832	K	Q	KQ	benign
rs4689254	NP_660334	A	T	AT	benign
rs4689278	NP_667338	S	G	SG	benign
rs4690006	NP_054908	L	M	LM	benign
rs4690006	NP_054909	L	M	LM	benign
rs4690006	NP_789771	L	M	LM	benign
rs4690006	NP_001110	L	M	LM	benign
rs4690224	NP_000194	D	E	DE	benign
rs4690225	NP_000194	R	W	RW	possibly damaging
rs4690226	NP_000194	R	C	RC	probably damaging

rs4690661	NP_733828	A	T	AT	benign
rs4691896	NP_612395	V	I	VI	benign
rs4692661	XP_037817	Y	C	YC	benign
rs4694082	NP_002083	K	R	KR	benign
rs4695632	XP_496692	E	K	EK	benign
rs4695918	NP_085136	G	S	GS	benign
rs4696354	NP_663772	I	V	IV	benign
rs4697879	XP_041221	H	R	HR	benign
rs4698803	NP_001954	V	E	VE	benign
rs4699384	XP_373030	M	L	ML	benign
rs4699735	NP_000663	S	C	SC	benign
rs4700010	NP_057422	L	F	LF	benign
rs4701997	NP_001360	I	L	IL	benign
rs4703094	XP_496769	L	P	LP	possibly damaging
rs4704166	NP_057675	V	I	VI	benign
rs4705336	NP_076933	E	D	ED	benign
rs4705426	NP_055043	L	M	LM	benign
rs4705693	NP_000029	A	S	AS	benign
rs4706980	NP_055833	R	Q	RQ	benign
rs4707358	NP_940970	T	I	TI	possibly damaging
rs4707557	NP_055426	N	K	NK	benign
rs4707569	NP_055426	F	V	FV	possibly damaging
rs4708626	NP_085118	M	K	MK	benign
rs4708626	NP_005346	M	K	MK	benign
rs4708771	NP_061847	V	M	VM	benign
rs4709245	XP_498157	K	E	KE	benign
rs4709246	XP_498157	M	V	MV	benign
rs4710963	NP_060244	R	S	RS	probably damaging
rs4711245	NP_001945	R	W	RW	possibly damaging
rs4711459	XP_371817	V	A	VA	benign
rs4712138	NP_056363	Q	R	QR	benign
rs4712138	NP_899236	Q	R	QR	possibly damaging
rs4712990	NP_008979	P	T	PT	possibly damaging
rs4713497	NP_115859	R	W	RW	probably damaging
rs4713498	NP_115859	Q	K	QK	benign
rs4713499	NP_115859	S	A	SA	benign
rs4713956	NP_775947	S	P	SP	benign
rs4714759	XP_371822	V	M	VM	benign
rs4715227	NP_619639	Q	R	QR	benign
rs4715630	NP_056363	M	I	MI	possibly damaging
rs4715630	NP_899236	M	I	MI	probably damaging
rs4715631	NP_899236	T	A	TA	benign
rs4715631	NP_056363	T	A	TA	benign
rs4716346	XP_376556	S	G	SG	benign
rs4716477	XP_373223	E	Q	EQ	benign
rs4716731	XP_373223	A	V	AV	benign

rs4716732	XP_373223	T	P	TP	possibly damaging
rs4716734	XP_373223	A	D	AD	benign
rs4716746	XP_373223	S	P	SP	possibly damaging
rs4717170	XP_498210	R	H	RH	probably damaging
rs4719553	NP_689956	R	Q	RQ	benign
rs4719966	NP_061902	V	G	VG	possibly damaging
rs4719966	NP_112601	V	G	VG	possibly damaging
rs4720015	NP_006765	C	F	CF	probably damaging
rs4721888	NP_877439	V	L	VL	benign
rs4722266	NP_113602	G	E	GE	benign
rs4722266	NP_116562	G	E	GE	benign
rs4723010	NP_006765	D	N	DN	benign
rs4724285	NP_001120	P	L	PL	probably damaging
rs4724663	XP_376567	S	P	SP	possibly damaging
rs4724708	XP_377928	A	V	AV	benign
rs4725314	XP_376720	T	M	TM	possibly damaging
rs4725617	NP_005223	A	V	AV	benign
rs4726476	NP_061853	R	T	RT	benign
rs4726491	XP_376684	E	K	EK	benign
rs4727540	XP_379908	R	H	RH	benign
rs4727853	NP_000483	N	K	NK	benign
rs4728137	NP_073579	E	Q	EQ	benign
rs4728190	NP_660311	R	W	RW	possibly damaging
rs4728325	NP_001619	K	E	KE	benign
rs4728329	NP_064695	D	N	DN	benign
rs4728602	NP_110425	H	R	HR	benign
rs4728602	NP_683682	H	R	HR	benign
rs4728602	XP_498218	R	H	RH	possibly damaging
rs4728712	NP_542782	R	H	RH	benign
rs4728730	NP_068367	H	Y	HY	possibly damaging
rs4728730	NP_057435	H	Y	HY	possibly damaging
rs4728730	NP_068368	H	Y	HY	possibly damaging
rs4728730	NP_068369	H	Y	HY	possibly damaging
rs4729542	NP_659570	V	I	VI	benign
rs4729627	XP_168578	P	T	PT	possibly damaging
rs4730283	NP_002282	R	Q	RQ	benign
rs4732620	XP_372035	S	G	SG	benign
rs4732748	XP_088331	A	V	AV	benign
rs4734455	NP_003105	A	D	AD	benign
rs4734455	NP_757367	A	D	AD	benign
rs4734653	NP_005646	S	F	SF	possibly damaging
rs4735133	NP_803875	H	R	HR	benign
rs4736794	NP_919270	I	V	IV	benign
rs4738070	NP_006531	M	I	MI	benign
rs4739003	NP_775959	V	I	VI	benign
rs4740046	NP_940986	N	S	NS	benign

rs4740164	NP_009102	V	I	VI	benign
rs4740412	NP_006050	R	Q	RQ	benign
rs4740548	NP_003820	E	V	EV	possibly damaging
rs4741289	NP_003820	E	K	EK	benign
rs4741510	NP_775821	S	T	ST	benign
rs4742632	NP_997188	G	S	GS	benign
rs4742643	NP_997188	R	P	RP	probably damaging
rs4742754	NP_001846	M	V	MV	benign
rs4745196	NP_958861	I	L	IL	benign
rs4745571	XP_041018	N	S	NS	benign
rs4747096	NP_542453	E	G	EG	benign
rs4747096	NP_631894	E	G	EG	benign
rs4747194	NP_071407	R	Q	RQ	benign
rs4747195	NP_071407	P	L	PL	probably damaging
rs4748728	NP_006384	N	K	NK	benign
rs4750090	NP_078969	T	A	TA	benign
rs4750685	NP_002408	T	I	TI	benign
rs4752642	NP_996744	A	T	AT	benign
rs4752721	NP_060049	Y	S	YS	probably damaging
rs4752721	NP_015568	Y	S	YS	probably damaging
rs4752904	NP_002834	D	E	DE	benign
rs4753069	XP_061871	S	G	SG	benign
rs4753495	XP_374922	A	E	AE	benign
rs4754914	XP_370652	S	N	SN	benign
rs4755705	XP_039515	N	D	ND	benign
rs4755779	NP_997005	M	V	MV	benign
rs4757707	NP_116170	A	P	AP	possibly damaging
rs4757986	XP_372368	R	M	RM	probably damaging
rs4757987	XP_372368	R	H	RH	benign
rs4758141	XP_291981	T	I	TI	benign
rs4758142	XP_291981	I	M	IM	benign
rs4758168	XP_372368	V	I	VI	benign
rs4758209	XP_084578	R	G	RG	possibly damaging
rs4758258	XP_372373	L	P	LP	possibly damaging
rs4758423	NP_775860	H	Y	HY	possibly damaging
rs4758443	NP_003728	T	M	TM	benign
rs4759043	NP_005370	P	L	PL	possibly damaging
rs4759212	XP_370696	D	G	DG	possibly damaging
rs4759306	NP_036423	C	R	CR	probably damaging
rs4759675	XP_044334	G	V	GV	probably damaging
rs4760600	NP_149115	Y	C	YC	probably damaging
rs4761786	NP_002272	R	C	RC	probably damaging
rs4763566	XP_495908	K	E	KE	benign
rs4763862	NP_006134	I	V	IV	benign
rs4763876	NP_110444	R	Q	RQ	benign
rs4763936	XP_495908	G	V	GV	possibly damaging

rs4764643	NP_055318	S	C	SC	possibly damaging
rs4767022	NP_058132	G	R	GR	benign
rs4767022	NP_002525	G	R	GR	benign
rs4767884	NP_002850	G	S	GS	benign
rs4769131	XP_208097	D	E	DE	benign
rs4775765	NP_000129	C	Y	CY	probably damaging
rs4777035	NP_036343	L	P	LP	benign
rs4779061	XP_058721	K	T	KT	possibly damaging
rs4779794	XP_375181	G	E	GE	possibly damaging
rs4780144	NP_001027	C	R	CR	possibly damaging
rs4780409	XP_042234	R	S	RS	benign
rs4780606	NP_001162	K	E	KE	benign
rs4781022	NP_000237	N	T	NT	benign
rs4781938	NP_000824	N	T	NT	possibly damaging
rs4782030	NP_071449	E	Q	EQ	benign
rs4782591	NP_647610	C	Y	CY	benign
rs4782591	NP_005670	C	Y	CY	benign
rs4782905	NP_758857	E	K	EK	benign
rs4783121	XP_375377	R	H	RH	benign
rs4783453	NP_037434	R	Q	RQ	benign
rs4784575	NP_001257	G	D	GD	benign
rs4784677	NP_114091	S	N	SN	benign
rs4784752	NP_115582	S	I	SI	benign
rs4785732	XP_047462	L	M	LM	benign
rs4785763	NP_997335	A	E	AE	possibly damaging
rs4785963	NP_005138	Y	N	YN	probably damaging
rs4786350	NP_055529	R	P	RP	benign
rs4787115	NP_000287	F	L	FL	possibly damaging
rs4787278	XP_497482	R	C	RC	benign
rs4787279	XP_497482	R	W	RW	benign
rs4787280	XP_497482	D	G	DG	possibly damaging
rs4787952	NP_000409	V	G	VG	probably damaging
rs4787984	XP_044632	A	T	AT	benign
rs4788682	NP_008816	A	V	AV	benign
rs4789116	NP_085133	I	V	IV	benign
rs4789773	NP_775891	I	V	IV	benign
rs4790250	NP_003684	G	S	GS	benign
rs4790250	NP_663327	G	S	GS	benign
rs4790513	NP_659505	T	M	TM	benign
rs4790555	NP_055928	S	A	SA	benign
rs4791596	XP_371019	A	V	AV	benign
rs4791641	NP_036525	P	L	PL	probably damaging
rs4792147	NP_001132	R	Q	RQ	benign
rs4792311	NP_060597	L	S	LS	possibly damaging
rs4792898	NP_005883	P	R	PR	probably damaging
rs4794159	NP_060427	T	P	TP	benign

rs4795452	XP_371036	A	V	AV	benign
rs4795472	NP_653284	L	Q	LQ	benign
rs4795581	NP_000258	Y	S	YS	probably damaging
rs4795690	NP_612201	V	M	VM	benign
rs4795834	NP_033665	G	E	GE	probably damaging
rs4796033	NP_002869	R	Q	RQ	benign
rs4796033	NP_598332	R	Q	RQ	benign
rs4796077	NP_689483	D	N	DN	benign
rs4796555	NP_694962	P	S	PS	possibly damaging
rs4796603	NP_817084	S	T	ST	benign
rs4796603	NP_003940	S	T	ST	benign
rs4796604	NP_817084	K	R	KR	benign
rs4796604	NP_003940	K	R	KR	benign
rs4796693	NP_817084	S	L	SL	benign
rs4796693	NP_003940	S	L	SL	benign
rs4796697	NP_002265	A	T	AT	benign
rs4796697	NP_705694	A	T	AT	benign
rs4796853	XP_171855	G	C	GC	probably damaging
rs4796855	XP_171855	A	D	AD	possibly damaging
rs4796856	XP_171855	S	P	SP	probably damaging
rs4797919	XP_496268	V	M	VM	benign
rs4798040	NP_114437	L	V	LV	benign
rs4798791	NP_056023	K	R	KR	benign
rs4799078	NP_004706	S	F	SF	possibly damaging
rs4799078	NP_430255	S	F	SF	probably damaging
rs4799570	NP_817123	I	L	IL	benign
rs4800091	XP_371115	V	I	VI	benign
rs4800502	XP_497583	K	E	KE	benign
rs4801177	XP_371198	T	I	TI	benign
rs4801296	XP_292723	V	I	VI	benign
rs4801478	NP_690873	T	A	TA	benign
rs4801690	XP_292724	Q	R	QR	benign
rs4801795	NP_002143	D	H	DH	possibly damaging
rs4801844	XP_292779	S	A	SA	benign
rs4801958	NP_079009	I	V	IV	benign
rs4801959	NP_079009	R	H	RH	benign
rs4802029	NP_057620	L	H	LH	probably damaging
rs4802472	NP_000531	T	M	TM	benign
rs4802584	NP_000531	Q	E	QE	benign
rs4802599	NP_055234	R	Q	RQ	benign
rs4802609	NP_699160	V	E	VE	benign
rs4802702	NP_653295	E	G	EG	benign
rs4802965	NP_689685	I	V	IV	benign
rs4803125	XP_496323	E	K	EK	benign
rs4803127	XP_496323	K	Q	KQ	benign
rs4803149	XP_209163	R	G	RG	probably damaging

rs4803150	XP_209163	I	M	IM	possibly damaging
rs4803794	NP_008987	E	K	EK	benign
rs4803932	NP_071907	D	N	DN	benign
rs4804063	NP_115823	S	G	SG	benign
rs4804079	NP_848620	N	H	NH	probably damaging
rs4804271	NP_115823	N	D	ND	benign
rs4804305	NP_115528	K	Q	KQ	benign
rs4804401	XP_372708	F	V	FV	possibly damaging
rs4804773	NP_001993	R	W	RW	benign
rs4805157	XP_496306	S	W	SW	possibly damaging
rs4805162	NP_689690	T	I	TI	benign
rs4805206	NP_689492	V	I	VI	benign
rs4805206	NP_954577	V	I	VI	benign
rs4805664	NP_065907	P	L	PL	probably damaging
rs4806132	NP_005295	L	V	LV	benign
rs4806132	NP_005296	L	V	LV	benign
rs4806163	NP_201574	A	V	AV	benign
rs4806213	NP_004637	N	S	NS	benign
rs4806589	NP_036446	T	S	TS	benign
rs4806589	NP_839942	T	S	TS	benign
rs4806590	NP_036446	K	R	KR	benign
rs4806590	NP_839942	K	R	KR	benign
rs4807054	NP_002025	T	M	TM	possibly damaging
rs4807056	XP_375560	A	S	AS	benign
rs4807145	NP_065746	P	S	PS	benign
rs4807399	XP_290850	R	W	RW	possibly damaging
rs4807595	XP_375558	G	S	GS	benign
rs4807597	XP_375558	V	A	VA	benign
rs4807697	NP_570923	R	C	RC	benign
rs4807697	NP_570924	R	C	RC	benign
rs4807697	NP_570925	R	C	RC	benign
rs4807697	NP_002841	R	C	RC	benign
rs4807840	NP_112186	A	V	AV	benign
rs4807897	XP_290854	L	P	LP	benign
rs4807916	NP_001965	M	T	MT	benign
rs4807982	XP_371145	Q	H	QH	probably damaging
rs4807986	XP_371145	W	R	WR	benign
rs4808209	NP_149981	M	L	ML	possibly damaging
rs4808323	XP_377521	T	M	TM	benign
rs4808382	NP_039228	A	V	AV	benign
rs4808383	NP_039228	G	R	GR	probably damaging
rs4808551	NP_056507	T	M	TM	benign
rs4808756	NP_006323	M	V	MV	benign
rs4808863	NP_001483	V	A	VA	benign
rs4808907	NP_055699	S	G	SG	benign
rs4809401	NP_005277	Q	R	QR	benign

rs4811236	NP_110517	N	D	ND	benign
rs4814111	NP_536737	G	R	GR	probably damaging
rs4814640	NP_848572	N	D	ND	benign
rs4814752	NP_006457	P	S	PS	benign
rs4816782	XP_371409	D	E	DE	probably damaging
rs4816815	XP_497774	L	P	LP	probably damaging
rs4817617	NP_008864	K	Q	KQ	benign
rs4817788	NP_005119	C	G	CG	benign
rs4818448	NP_778146	R	Q	RQ	benign
rs4818742	NP_478070	P	L	PL	benign
rs4818842	NP_006022	S	G	SG	benign
rs4818947	NP_859016	T	P	TP	probably damaging
rs4818948	NP_859016	C	S	CS	probably damaging
rs4818949	NP_859016	Q	P	QP	possibly damaging
rs4818950	NP_859016	V	M	VM	benign
rs4819002	NP_478070	V	L	VL	benign
rs4819522	NP_542377	T	M	TM	benign
rs4819756	NP_057419	R	W	RW	probably damaging
rs4820682	XP_377713	A	T	AT	benign
rs4820723	NP_659479	N	S	NS	probably damaging
rs4820853	NP_777635	I	T	IT	possibly damaging
rs4820889	NP_000346	R	Q	RQ	benign
rs4820935	NP_008863	A	P	AP	benign
rs4820935	NP_599031	A	P	AP	benign
rs4820935	NP_599032	A	P	AP	benign
rs4822063	NP_004590	G	A	GA	benign
rs4822528	XP_496520	H	R	HR	probably damaging
rs4823027	NP_005234	P	T	PT	possibly damaging
rs4823054	NP_115580	R	Q	RQ	benign
rs4823086	NP_114143	R	H	RH	benign
rs4823496	NP_006062	I	M	IM	benign
rs4823561	NP_055061	C	R	CR	probably damaging
rs4823850	NP_055061	S	W	SW	possibly damaging
rs4824462	NP_079135	L	F	LF	benign
rs4824675	NP_066295	E	Q	EQ	benign
rs4824675	NP_783729	E	Q	EQ	benign
rs4825262	NP_003150	P	S	PS	possibly damaging
rs4826245	NP_000043	K	E	KE	benign
rs4826957	NP_005368	S	T	ST	benign
rs4827331	NP_620135	I	V	IV	benign
rs4829799	NP_061136	S	L	SL	benign
rs4830210	NP_659404	R	T	RT	benign
rs4830842	XP_045705	G	D	GD	possibly damaging
rs4831823	XP_372028	C	Y	CY	probably damaging
rs4831823	XP_372030	Y	C	YC	probably damaging
rs4832168	NP_060220	G	R	GR	possibly damaging



rs4832169	NP_060220	A	V	AV	benign
rs4832524	NP_002243	T	A	TA	benign
rs4833069	NP_056045	R	Q	RQ	benign
rs4833069	NP_631921	R	Q	RQ	benign
rs4833095	NP_003254	N	S	NS	possibly damaging
rs4835657	NP_006781	E	D	ED	benign
rs4836619	NP_003002	L	V	LV	benign
rs4836639	NP_066954	R	Q	RQ	benign
rs4836639	NP_821067	R	Q	RQ	benign
rs4836639	NP_821068	R	Q	RQ	benign
rs4836639	NP_821070	R	Q	RQ	benign
rs4836822	NP_060719	Q	E	QE	benign
rs4836891	XP_373313	R	Q	RQ	benign
rs4837178	NP_659402	Y	C	YC	possibly damaging
rs4837768	NP_060719	V	L	VL	benign
rs4838012	XP_373315	C	Y	CY	possibly damaging
rs4838544	NP_065574	M	V	MV	possibly damaging
rs4838544	NP_066266	M	V	MV	possibly damaging
rs4838544	NP_066265	M	V	MV	possibly damaging
rs4838544	NP_066264	M	V	MV	possibly damaging
rs4838864	NP_065194	L	V	LV	benign
rs4838865	NP_065194	S	L	SL	benign
rs4839131	XP_497697	D	N	DN	possibly damaging
rs4839469	NP_620409	A	T	AT	benign
rs4840953	XP_291277	S	C	SC	benign
rs4840955	XP_291277	P	L	PL	benign
rs4841433	NP_113627	T	S	TS	benign
rs4841520	NP_473369	R	C	RC	possibly damaging
rs4842390	NP_003616	R	H	RH	benign
rs4842838	NP_997400	L	V	LV	benign
rs4843074	NP_009131	P	A	PA	possibly damaging
rs4843074	NP_006729	P	A	PA	possibly damaging
rs4843075	NP_009131	D	N	DN	benign
rs4843075	NP_006729	D	N	DN	benign
rs4843978	XP_497522	P	L	PL	probably damaging
rs4844036	NP_115897	T	A	TA	benign
rs4844573	NP_000706	I	T	IT	benign
rs4844609	NP_000642	S	T	ST	benign
rs4844609	NP_000564	S	T	ST	benign
rs4844658	NP_079455	G	E	GE	possibly damaging
rs4844976	XP_498755	K	Q	KQ	benign
rs4845403	NP_653223	R	W	RW	possibly damaging
rs4845839	XP_088797	T	S	TS	benign
rs4845880	XP_209234	R	Q	RQ	benign
rs4845881	XP_209234	R	Q	RQ	benign
rs4845898	NP_056193	E	V	EV	possibly damaging

rs4845920	XP_291395	M	V	MV	possibly damaging
rs4846042	XP_209234	D	A	DA	benign
rs4848158	NP_115766	R	T	RT	possibly damaging
rs4849167	NP_036587	G	A	GA	benign
rs4850168	XP_292982	Y	F	YF	benign
rs4850168	XP_371558	Y	F	YF	benign
rs4850169	XP_292982	A	V	AV	benign
rs4850169	XP_371558	A	V	AV	benign
rs4851287	NP_940863	P	L	PL	probably damaging
rs4852764	NP_005782	A	T	AT	benign
rs4854235	NP_653306	T	M	TM	possibly damaging
rs4855271	NP_001032	I	M	IM	possibly damaging
rs4855576	NP_055244	I	F	IF	benign
rs4857276	XP_496653	A	V	AV	benign
rs4857302	XP_376254	N	H	NH	benign
rs4858097	NP_005117	M	L	ML	possibly damaging
rs4859571	NP_055250	V	I	VI	benign
rs4859596	NP_005400	N	S	NS	benign
rs4859905	NP_065926	G	D	GD	possibly damaging
rs4859905	NP_116252	G	D	GD	possibly damaging
rs4859905	NP_996672	G	D	GD	possibly damaging
rs4860273	XP_291095	R	H	RH	possibly damaging
rs4860274	XP_291095	S	C	SC	possibly damaging
rs4860275	XP_291095	N	D	ND	benign
rs4862093	XP_371717	A	V	AV	benign
rs4862155	NP_079225	A	T	AT	benign
rs4862650	XP_496727	K	E	KE	benign
rs4862653	XP_496727	K	E	KE	benign
rs4863314	XP_377136	P	L	PL	benign
rs4865615	NP_775785	T	S	TS	benign
rs4865757	NP_002194	Y	D	YD	probably damaging
rs4867440	NP_057191	V	I	VI	benign
rs4868592	XP_371783	V	G	VG	possibly damaging
rs4868592	NP_775934	V	G	VG	possibly damaging
rs4870093	NP_149062	V	I	VI	benign
rs4870093	NP_892006	V	I	VI	benign
rs4870723	XP_044622	N	H	NH	benign
rs4871827	NP_073620	S	N	SN	benign
rs4871866	NP_002309	S	R	SR	benign
rs4872318	NP_689775	V	I	VI	benign
rs4873802	NP_055932	A	S	AS	benign
rs4874084	XP_376800	N	D	ND	benign
rs4874147	NP_055932	G	S	GS	benign
rs4878199	NP_000683	V	M	VM	possibly damaging
rs4878271	XP_372163	S	F	SF	possibly damaging
rs4878271	XP_372097	S	F	SF	possibly damaging

rs4879079	XP_497024	S	R	SR	benign
rs4879860	NP_690577	W	C	WC	probably damaging
rs4879860	NP_116023	W	C	WC	probably damaging
rs4880139	NP_945184	S	P	SP	benign
rs4880287	XP_495853	R	S	RS	benign
rs4880288	XP_495853	I	L	IL	benign
rs4880433	NP_060079	T	A	TA	benign
rs4880608	NP_817124	L	F	LF	benign
rs4880718	NP_001809	Q	R	QR	benign
rs4881159	NP_817124	N	D	ND	benign
rs4881425	XP_497211	Y	C	YC	probably damaging
rs4883263	NP_981961	V	I	VI	benign
rs4883263	NP_004235	V	I	VI	benign
rs4883918	NP_055768	S	N	SN	benign
rs4884021	NP_005349	V	I	VI	benign
rs4886730	NP_001888	R	Q	RQ	benign
rs4887662	XP_497500	W	R	WR	possibly damaging
rs4889261	NP_877417	L	P	LP	benign
rs4889523	XP_497494	R	P	RP	probably damaging
rs4889548	XP_496143	F	V	FV	benign
rs4889891	NP_065700	G	V	GV	possibly damaging
rs4890762	XP_497579	G	E	GE	possibly damaging
rs4891392	NP_775901	F	S	FS	possibly damaging
rs4893853	NP_596870	K	R	KR	benign
rs4894048	NP_596870	G	S	GS	benign
rs4895362	NP_005500	S	N	SN	benign
rs4895944	NP_511043	M	L	ML	benign
rs4900130	NP_705933	V	I	VI	benign
rs4900130	NP_705934	V	I	VI	benign
rs4901284	XP_056434	T	I	TI	benign
rs4902099	NP_114120	Q	R	QR	benign
rs4902176	NP_647479	A	T	AT	benign
rs4902283	NP_005947	P	L	PL	possibly damaging
rs4902834	XP_027236	P	A	PA	benign
rs4903104	XP_370765	T	M	TM	possibly damaging
rs4903576	XP_370769	K	E	KE	benign
rs4904210	NP_006185	A	P	AP	benign
rs4904448	NP_060888	D	N	DN	benign
rs4905081	NP_065869	V	I	VI	benign
rs4905937	NP_996801	T	A	TA	benign
rs4907250	NP_951060	A	V	AV	benign
rs4907250	NP_060093	A	V	AV	benign
rs4907817	XP_497139	I	V	IV	benign
rs4908862	NP_000974	N	T	NT	possibly damaging
rs4908923	NP_078930	R	W	RW	possibly damaging
rs4909951	NP_065697	R	L	RL	possibly damaging

rs4910755	XP_372353	K	T	KT	benign
rs4910756	XP_372353	N	S	NS	possibly damaging
rs4911287	NP_777557	S	G	SG	benign
rs4911290	NP_872599	V	M	VM	benign
rs4911494	NP_060714	R	Q	RQ	benign
rs4911494	NP_955781	R	Q	RQ	benign
rs4912470	NP_061092	A	G	AG	benign
rs4912751	NP_114479	I	V	IV	benign
rs4912751	NP_061736	I	V	IV	benign
rs4915154	NP_002829	T	A	TA	benign
rs4915212	NP_000060	R	H	RH	possibly damaging
rs4915691	XP_375737	S	N	SN	benign
rs4916104	XP_372825	C	R	CR	benign
rs4916129	XP_372827	D	N	DN	benign
rs4916130	XP_372827	C	F	CF	probably damaging
rs4916373	NP_848622	V	I	VI	benign
rs4916589	NP_079439	R	Q	RQ	benign
rs4918857	NP_006166	L	Q	LQ	possibly damaging
rs4918857	NP_932326	L	Q	LQ	possibly damaging
rs4919608	NP_079023	E	D	ED	benign
rs4919645	NP_079065	A	S	AS	benign
rs4920246	NP_005637	S	G	SG	benign
rs4921637	NP_071354	E	G	EG	benign
rs4923930	NP_056104	F	V	FV	possibly damaging
rs4924595	NP_940844	N	S	NS	benign
rs4924858	XP_371028	R	T	RT	benign
rs4925229	NP_005551	T	A	TA	benign
rs4925663	XP_060580	G	D	GD	possibly damaging
rs4925856	NP_038460	P	L	PL	probably damaging
rs4926219	NP_002732	I	V	IV	benign
rs4926219	NP_998725	I	V	IV	benign
rs4926472	XP_114067	P	L	PL	benign
rs4926581	XP_208213	V	F	VF	benign
rs4926600	XP_208213	L	F	LF	benign
rs4926885	XP_496363	A	G	AG	possibly damaging
rs4926893	NP_001972	N	K	NK	possibly damaging
rs4927413	XP_371534	E	K	EK	benign
rs4927611	NP_000538	A	S	AS	benign
rs4927611	NP_783650	A	S	AS	benign
rs4927611	NP_783651	A	S	AS	benign
rs4927611	NP_783652	A	S	AS	benign
rs4927772	XP_171032	I	V	IV	benign
rs4929762	NP_954714	P	R	PR	probably damaging
rs4929858	XP_497279	V	D	VD	possibly damaging
rs4929982	NP_055370	R	Q	RQ	benign
rs4930142	NP_066957	D	N	DN	benign

rs4930199	NP_003968	R	Q	RQ	possibly damaging
rs4930388	NP_008877	G	S	GS	benign
rs4930409	NP_055393	R	C	RC	probably damaging
rs4930695	NP_005459	S	L	SL	benign
rs4930729	NP_997321	V	L	VL	benign
rs4930979	NP_659410	R	K	RK	benign
rs4931804	XP_496026	V	I	VI	benign
rs4931827	XP_496034	R	C	RC	benign
rs4931912	XP_496026	Q	R	QR	benign
rs4931913	XP_496026	M	T	MT	benign
rs4932305	NP_064595	M	I	MI	benign
rs4932305	NP_945119	M	I	MI	benign
rs4932380	XP_370908	A	S	AS	benign
rs4932713	XP_497618	G	D	GD	benign
rs4933050	NP_037371	A	V	AV	benign
rs4933050	NP_955358	A	V	AV	benign
rs4934281	NP_079032	D	H	DH	benign
rs4935425	XP_350781	R	G	RG	benign
rs4935502	NP_149045	D	A	DA	benign
rs4935898	XP_370663	V	M	VM	benign
rs4936429	NP_000723	A	S	AS	benign
rs4936880	XP_372436	R	G	RG	probably damaging
rs4936881	XP_372436	K	Q	KQ	possibly damaging
rs4936919	XP_208543	L	P	LP	possibly damaging
rs4937586	XP_374949	L	R	LR	possibly damaging
rs4938016	NP_848605	G	R	GR	possibly damaging
rs4938063	NP_998786	S	N	SN	benign
rs4938063	NP_000860	S	N	SN	benign
rs4938895	XP_372409	C	R	CR	possibly damaging
rs4938915	XP_291885	A	T	AT	probably damaging
rs4939078	XP_372401	S	T	ST	benign
rs4940019	NP_114145	R	S	RS	benign
rs4940404	NP_443179	N	K	NK	benign
rs4940790	XP_497591	R	P	RP	benign
rs4941543	NP_002289	E	K	EK	benign
rs4942848	NP_060661	V	A	VA	benign
rs4944960	XP_374912	T	R	TR	benign
rs4945256	NP_689776	P	L	PL	probably damaging
rs4945256	NP_060642	P	L	PL	probably damaging
rs4946188	NP_659499	D	N	DN	possibly damaging
rs4946977	NP_073602	A	T	AT	benign
rs4947334	NP_000583	H	P	HP	probably damaging
rs4947334	NP_001002029	H	P	HP	probably damaging
rs4947338	NP_006772	L	W	LW	benign
rs4948970	XP_372311	N	H	NH	benign
rs4949184	XP_375712	D	N	DN	benign

rs4950394	NP_004275	S	A	SA	benign
rs4950516	XP_034717	A	V	AV	benign
rs4950532	XP_034717	S	I	SI	benign
rs4951164	NP_005067	P	L	PL	benign
rs4951168	NP_976310	R	Q	RQ	benign
rs4953961	XP_497879	K	T	KT	benign
rs4954449	NP_002290	I	V	IV	benign
rs4954474	XP_046570	D	E	DE	benign
rs4955216	XP_496634	R	L	RL	possibly damaging
rs4955217	XP_496634	R	C	RC	probably damaging
rs4955418	NP_075054	R	W	RW	benign
rs4955419	NP_075054	L	Q	LQ	benign
rs4956145	NP_005318	P	L	PL	probably damaging
rs4956462	XP_093895	Y	F	YF	benign
rs4956987	NP_443141	R	Q	RQ	possibly damaging
rs4958531	NP_064552	M	V	MV	benign
rs4958532	NP_064552	P	L	PL	possibly damaging
rs4958535	NP_064552	S	T	ST	benign
rs4959083	NP_115859	S	N	SN	benign
rs4959084	NP_115859	D	N	DN	benign
rs4959086	NP_115859	C	W	CW	probably damaging
rs4960809	XP_496985	A	V	AV	benign
rs4961206	NP_061971	T	P	TP	possibly damaging
rs4961490	NP_060107	L	V	LV	benign
rs4962173	NP_115925	A	T	AT	benign
rs4962237	NP_689499	N	D	ND	possibly damaging
rs4962930	XP_496692	F	L	FL	benign
rs4962931	XP_496692	V	L	VL	benign
rs4963182	NP_076436	D	H	DH	benign
rs4963198	NP_932341	R	H	RH	benign
rs4963245	NP_775857	R	G	RG	probably damaging
rs4964460	NP_689985	A	T	AT	benign
rs4964912	NP_079491	E	K	EK	benign
rs4965409	XP_497472	S	L	SL	benign
rs4965539	NP_919271	L	V	LV	benign
rs4965923	XP_497472	R	S	RS	benign
rs4965958	XP_497472	L	M	LM	benign
rs4968104	NP_056536	V	E	VE	benign
rs4968281	NP_003387	M	T	MT	possibly damaging
rs4968318	NP_689560	V	I	VI	benign
rs4968502	XP_496235	A	V	AV	benign
rs4968839	NP_525023	V	I	VI	benign
rs4968839	NP_758854	V	I	VI	benign
rs4968849	NP_525021	M	T	MT	benign
rs4969391	NP_059345	Q	R	QR	benign
rs4970170	XP_377778	H	R	HR	benign

rs4970471	NP_443175	T	K	TK	benign
rs4971007	NP_112175	T	P	TP	possibly damaging
rs4971053	NP_060959	A	T	AT	benign
rs4972064	XP_371511	R	T	RT	possibly damaging
rs4972450	NP_003378	P	L	PL	possibly damaging
rs4973588	NP_062824	T	M	TM	benign
rs4974539	XP_209550	W	R	WR	benign
rs4975017	NP_783864	Q	K	QK	benign
rs4975396	XP_496692	N	H	NH	possibly damaging
rs4976482	NP_065122	Y	S	YS	possibly damaging
rs4977881	NP_060264	E	K	EK	benign
rs4978584	NP_056219	A	T	AT	benign
rs4978872	NP_671492	K	Q	KQ	benign
rs4978872	NP_009134	K	Q	KQ	benign
rs4979794	NP_004738	A	V	AV	benign
rs4980895	NP_115734	S	R	SR	benign
rs4980999	NP_757365	R	C	RC	benign
rs4980999	NP_705720	R	C	RC	benign
rs4980999	NP_757380	R	C	RC	benign
rs4980999	NP_757364	R	C	RC	benign
rs4980999	NP_757363	R	C	RC	benign
rs4980999	NP_006540	R	C	RC	probably damaging
rs4981242	XP_063202	D	A	DA	benign
rs4981437	NP_005006	R	W	RW	probably damaging
rs4981473	NP_000248	E	Q	EQ	benign
rs4981500	NP_777573	T	I	TI	benign
rs4982051	NP_009041	S	L	SL	benign
rs4982419	XP_372509	L	F	LF	benign
rs4982685	NP_851312	V	A	VA	benign
rs4982685	NP_851313	V	A	VA	benign
rs4982685	NP_851824	V	A	VA	benign
rs4982685	NP_848026	V	A	VA	benign
rs4982715	NP_060285	Y	S	YS	probably damaging
rs4982766	XP_033370	V	A	VA	benign
rs4983380	NP_071934	T	A	TA	benign
rs4983659	XP_496026	D	N	DN	benign
rs4983736	XP_378494	Q	P	QP	possibly damaging
rs4984040	XP_496028	N	I	NI	benign
rs4984041	XP_496028	T	A	TA	benign
rs4984636	NP_066921	V	A	VA	benign
rs4984638	NP_036599	W	S	WS	probably damaging
rs4984948	NP_073610	P	R	PR	probably damaging
rs4985162	NP_055842	P	L	PL	benign
rs4985866	NP_066292	I	V	IV	benign
rs4986761	NP_000042	S	P	SP	benign
rs4986764	NP_114432	P	S	PS	benign

rs4986771	NP_067645	S	P	SP	benign
rs4986782	NP_000240	R	C	RC	probably damaging
rs4986783	NP_000653	S	A	SA	benign
rs4986790	NP_612567	D	G	DG	benign
rs4986790	NP_612566	D	G	DG	possibly damaging
rs4986791	NP_612567	T	I	TI	benign
rs4986791	NP_612566	T	I	TI	possibly damaging
rs4986818	NP_006428	P	L	PL	probably damaging
rs4986822	NP_006428	S	T	ST	benign
rs4986826	NP_001612	V	I	VI	benign
rs4986845	NP_009230	N	D	ND	benign
rs4986845	NP_009231	N	D	ND	benign
rs4986845	NP_009232	N	D	ND	benign
rs4986845	NP_009233	N	D	ND	possibly damaging
rs4986845	NP_009228	N	D	ND	possibly damaging
rs4986847	NP_009230	I	L	IL	benign
rs4986847	NP_009231	I	L	IL	benign
rs4986847	NP_009232	I	L	IL	benign
rs4986847	NP_009233	I	L	IL	benign
rs4986847	NP_009228	I	L	IL	benign
rs4986848	NP_009230	F	S	FS	benign
rs4986848	NP_009231	F	S	FS	benign
rs4986848	NP_009232	F	S	FS	benign
rs4986848	NP_009233	F	S	FS	benign
rs4986848	NP_009228	F	S	FS	benign
rs4986849	NP_009229	R	Q	RQ	benign
rs4986849	NP_009230	R	Q	RQ	benign
rs4986849	NP_009231	R	Q	RQ	benign
rs4986849	NP_009232	R	Q	RQ	benign
rs4986849	NP_009233	R	Q	RQ	benign
rs4986849	NP_009234	R	Q	RQ	benign
rs4986849	NP_009236	R	Q	RQ	benign
rs4986849	NP_009228	R	Q	RQ	benign
rs4986849	NP_009235	R	Q	RQ	benign
rs4986850	NP_009230	D	N	DN	benign
rs4986850	NP_009231	D	N	DN	benign
rs4986850	NP_009232	D	N	DN	benign
rs4986850	NP_009233	D	N	DN	benign
rs4986850	NP_009228	D	N	DN	benign
rs4986852	NP_009230	S	N	SN	benign
rs4986852	NP_009231	S	N	SN	benign
rs4986852	NP_009232	S	N	SN	benign
rs4986852	NP_009233	S	N	SN	benign
rs4986852	NP_009228	S	N	SN	benign
rs4986854	NP_009229	M	T	MT	possibly damaging
rs4986854	NP_009233	M	T	MT	possibly damaging



rs4986854	NP_009234	M	T	MT	possibly damaging
rs4986854	NP_009236	M	T	MT	possibly damaging
rs4986854	NP_009228	M	T	MT	possibly damaging
rs4986854	NP_009235	M	T	MT	probably damaging
rs4986859	NP_000050	N	D	ND	possibly damaging
rs4986860	NP_000050	H	R	HR	probably damaging
rs4986866	NP_510867	P	L	PL	probably damaging
rs4986867	NP_510867	F	L	FL	possibly damaging
rs4986871	NP_009294	A	V	AV	benign
rs4986887	NP_000095	D	H	DH	possibly damaging
rs4986888	NP_000095	A	G	AG	benign
rs4986891	NP_000753	R	Q	RQ	probably damaging
rs4986893	NP_000760	W	C	WC	probably damaging
rs4986907	NP_059488	R	Q	RQ	benign
rs4986908	NP_059488	D	N	DN	benign
rs4986909	NP_059488	P	L	PL	probably damaging
rs4986910	NP_059488	M	T	MT	probably damaging
rs4986913	NP_059488	P	S	PS	benign
rs4986933	NP_005227	A	D	AD	possibly damaging
rs4986939	NP_004620	S	L	SL	benign
rs4986940	NP_004620	P	S	PS	possibly damaging
rs4986941	NP_067674	M	V	MV	benign
rs4986948	NP_000843	T	S	TS	benign
rs4986949	NP_000843	D	Y	DY	probably damaging
rs4986950	NP_620574	T	I	TI	benign
rs4986950	NP_620578	T	I	TI	benign
rs4986950	NP_620579	T	I	TI	benign
rs4986950	NP_000401	T	I	TI	benign
rs4986950	NP_620573	T	I	TI	possibly damaging
rs4986950	NP_620576	T	I	TI	possibly damaging
rs4986952	NP_000853	R	I	RI	probably damaging
rs4986954	NP_000189	D	N	DN	benign
rs4986956	NP_000865	F	S	FS	benign
rs4986956	NP_997467	F	S	FS	benign
rs4986956	NP_997468	F	S	FS	benign
rs4986958	NP_005525	T	R	TR	benign
rs4986964	NP_758858	C	R	CR	probably damaging
rs4986964	NP_000580	C	R	CR	probably damaging
rs4986970	NP_000220	S	T	ST	benign
rs4986973	NP_039269	P	S	PS	benign
rs4986974	NP_002302	K	T	KT	benign
rs4986974	NP_039269	K	T	KT	possibly damaging
rs4986996	NP_000006	D	N	DN	probably damaging
rs4986997	NP_000006	L	F	LF	possibly damaging
rs4986998	NP_000894	R	W	RW	benign
rs4987023	NP_000627	G	R	GR	benign

rs4987024	NP_803564	Y	F	YF	possibly damaging
rs4987024	NP_001045	Y	F	YF	possibly damaging
rs4987042	NP_067645	I	T	IT	benign
rs4987046	NP_000050	Y	C	YC	probably damaging
rs4987047	NP_000050	I	F	IF	possibly damaging
rs4987048	NP_000050	D	N	DN	possibly damaging
rs4987051	NP_000379	P	T	PT	possibly damaging
rs4987052	NP_000638	L	V	LV	benign
rs4987052	NP_000639	L	V	LV	possibly damaging
rs4987060	NP_001970	P	L	PL	benign
rs4987063	NP_000114	V	I	VI	benign
rs4987068	NP_000225	R	H	RH	benign
rs4987070	NP_000225	D	G	DG	possibly damaging
rs4987076	NP_000653	V	I	VI	benign
rs4987090	NP_005422	A	S	AS	benign
rs4987102	NP_003730	A	T	AT	benign
rs4987104	NP_000688	E	K	EK	benign
rs4987109	NP_000029	S	T	ST	benign
rs4987115	NP_001179	A	V	AV	benign
rs4987117	NP_000050	T	M	TM	benign
rs4987121	NP_001227	M	L	ML	probably damaging
rs4987125	NP_847899	G	D	GD	benign
rs4987127	NP_478102	G	R	GR	possibly damaging
rs4987133	NP_000490	I	T	IT	probably damaging
rs4987161	NP_059488	F	S	FS	probably damaging
rs4987168	NP_000114	Q	R	QR	benign
rs4987176	NP_000845	D	N	DN	benign
rs4987181	NP_000225	P	L	PL	probably damaging
rs4987188	NP_000242	G	D	GD	benign
rs4987195	NP_000653	T	I	TI	possibly damaging
rs4987202	NP_005044	T	M	TM	benign
rs4987203	NP_005044	R	Q	RQ	benign
rs4987205	NP_597816	T	I	TI	possibly damaging
rs4987215	NP_116559	D	H	DH	possibly damaging
rs4987215	NP_002898	D	H	DH	possibly damaging
rs4987233	NP_612566	S	N	SN	benign
rs4987233	NP_612567	S	N	SN	benign
rs4987236	NP_000544	V	I	VI	benign
rs4987237	NP_000544	Q	R	QR	benign
rs4987238	NP_000544	L	F	LF	benign
rs4987241	NP_067645	M	I	MI	possibly damaging
rs4987250	NP_001391	S	L	SL	benign
rs4987262	NP_000951	R	C	RC	possibly damaging
rs4987309	NP_000646	E	Q	EQ	benign
rs4987310	NP_000646	P	S	PS	benign
rs4987382	NP_000646	N	D	ND	benign

rs4987411	NP_039224	L	P	LP	probably damaging
rs4987657	NP_061116	C	R	CR	benign
rs4987667	NP_061116	M	V	MV	benign
rs4987682	NP_061116	M	T	MT	benign
rs4987945	NP_000042	L	V	LV	benign
rs4988111	NP_612149	L	P	LP	benign
rs4988111	NP_000042	L	P	LP	possibly damaging
rs4988125	NP_612149	T	I	TI	possibly damaging
rs4988125	NP_000042	T	I	TI	possibly damaging
rs4988283	NP_005906	E	K	EK	benign
rs4988321	NP_002326	V	M	VM	benign
rs4988345	NP_114432	R	C	RC	possibly damaging
rs4988346	NP_114432	V	I	VI	benign
rs4988347	NP_114432	L	P	LP	probably damaging
rs4988349	NP_114432	Q	L	QL	benign
rs4988350	NP_114432	F	V	FV	possibly damaging
rs4988355	NP_114432	C	Y	CY	probably damaging
rs4988356	NP_114432	V	G	VG	benign
rs4988459	NP_000297	T	S	TS	benign
rs4988465	NP_001041	S	L	SL	possibly damaging
rs4988466	NP_001042	A	V	AV	benign
rs4988469	NP_001042	R	C	RC	possibly damaging
rs4988471	NP_001042	R	H	RH	possibly damaging
rs4988474	NP_001043	R	C	RC	probably damaging
rs4988477	NP_001043	V	A	VA	benign
rs4988480	NP_001044	A	T	AT	benign
rs4988482	NP_001044	G	R	GR	benign
rs4988483	NP_001044	L	M	LM	benign
rs4988484	NP_001044	A	V	AV	benign
rs4988487	NP_001044	P	S	PS	benign
rs4988489	NP_001044	R	C	RC	possibly damaging
rs4988492	NP_066567	L	F	LF	probably damaging
rs4988496	NP_000814	A	T	AT	benign
rs4988498	NP_000814	E	D	ED	benign
rs4988510	NP_004113	V	M	VM	benign
rs4988510	NP_940799	V	M	VM	benign
rs4988511	NP_004113	I	T	IT	possibly damaging
rs4988511	NP_940799	I	T	IT	possibly damaging
rs4988956	NP_057316	A	T	AT	benign
rs4988962	NP_613075	V	G	VG	benign
rs4988962	NP_613258	V	G	VG	benign
rs4988962	NP_004884	V	G	VG	benign
rs4988964	NP_613075	W	G	WG	possibly damaging
rs4988964	NP_613258	W	G	WG	possibly damaging
rs4988964	NP_004884	W	G	WG	possibly damaging
rs4989586	NP_004102	R	Q	RQ	possibly damaging

rs4989587	NP_004102	R	W	RW	probably damaging
rs4989588	NP_004102	L	Q	LQ	possibly damaging
rs4990043	XP_377797	C	F	CF	benign
rs4990044	XP_377797	N	K	NK	probably damaging
rs4990121	XP_166805	F	L	FL	benign
rs4990194	XP_372403	Y	C	YC	possibly damaging
rs4990293	XP_496341	L	V	LV	benign
rs4990444	NP_036234	A	T	AT	benign
rs4990726	NP_055382	P	S	PS	possibly damaging
rs4990810	XP_497650	S	F	SF	possibly damaging
rs4990811	XP_497650	P	S	PS	benign
rs4990813	XP_497650	C	R	CR	possibly damaging
rs4990814	XP_497650	M	R	MR	benign
rs4990815	XP_497650	F	V	FV	benign
rs4990821	NP_115528	E	Q	EQ	benign
rs4991448	NP_958799	L	P	LP	possibly damaging
rs4991751	NP_114093	V	I	VI	benign
rs4992185	XP_291625	Y	C	YC	possibly damaging
rs4992185	XP_291638	Y	C	YC	possibly damaging
rs4992186	XP_291625	Y	H	YH	benign
rs4992186	XP_291638	Y	H	YH	benign
rs4992415	NP_877496	E	D	ED	benign
rs4992999	NP_004714	L	V	LV	benign
rs4993130	NP_005865	L	H	LH	benign
rs4993132	NP_005865	N	S	NS	benign
rs4993133	NP_005865	D	N	DN	benign
rs4993134	NP_005865	D	E	DE	benign
rs4993135	NP_005865	S	T	ST	benign
rs4993136	NP_005865	E	D	ED	benign
rs4994503	NP_075408	Q	P	QP	possibly damaging
rs4994503	NP_004073	Q	P	QP	possibly damaging
rs4994504	NP_075408	E	A	EA	benign
rs4994504	NP_004073	E	A	EA	benign
rs4994540	NP_073622	E	D	ED	benign
rs4994540	NP_942153	E	D	ED	benign
rs4994541	NP_073622	H	P	HP	probably damaging
rs4994541	NP_942153	H	P	HP	probably damaging
rs4994616	NP_064512	E	A	EA	possibly damaging
rs4994617	NP_064512	A	D	AD	possibly damaging
rs4994743	XP_372576	A	S	AS	benign
rs4994919	NP_976063	E	A	EA	benign
rs4994919	NP_510880	E	A	EA	possibly damaging
rs4994920	NP_976063	E	A	EA	benign
rs4994920	NP_510880	E	A	EA	benign
rs4995059	NP_872413	N	H	NH	benign
rs4995097	NP_443134	S	I	SI	benign

rs4995423	NP_061928	H	P	HP	probably damaging
rs4995424	NP_061928	Q	P	QP	benign
rs4995481	NP_006058	D	Y	DY	probably damaging
rs4995609	NP_851849	L	F	LF	benign
rs4995611	NP_851849	T	M	TM	benign
rs4995613	NP_851849	N	K	NK	benign
rs4995884	XP_496134	H	R	HR	possibly damaging
rs4995933	NP_009102	M	V	MV	possibly damaging
rs4996021	NP_149111	R	L	RL	possibly damaging
rs4996045	NP_061028	L	I	LI	benign
rs4996211	NP_112212	Q	K	QK	benign
rs4996211	NP_006501	Q	K	QK	benign
rs4996268	XP_496394	Y	N	YN	probably damaging
rs4996483	NP_620693	D	Y	DY	possibly damaging
rs4996483	NP_001884	D	Y	DY	possibly damaging
rs4996484	NP_620693	S	A	SA	benign
rs4996484	NP_001884	S	A	SA	benign
rs4997052	NP_005505	Y	F	YF	benign
rs4997217	NP_009102	C	G	CG	probably damaging
rs4997557	NP_000753	T	S	TS	benign
rs4998015	XP_291625	C	S	CS	probably damaging
rs4998015	XP_291638	C	S	CS	probably damaging
rs4998340	XP_372437	P	Q	PQ	possibly damaging
rs4998896	NP_000488	R	H	RH	possibly damaging
rs4998901	NP_000488	P	A	PA	benign
rs4999095	NP_072049	H	Q	HQ	benign
rs4999096	NP_072049	R	L	RL	benign
rs4999211	NP_689820	F	S	FS	benign
rs4999333	XP_496202	K	N	KN	possibly damaging
rs4999691	NP_060089	F	S	FS	probably damaging
rs4999806	NP_116016	P	L	PL	probably damaging
rs4999832	NP_689844	V	A	VA	benign
rs4999833	NP_689844	E	K	EK	benign
rs4999835	NP_689844	R	P	RP	probably damaging
rs4999957	XP_372763	E	V	EV	benign
rs5000140	NP_904357	R	S	RS	possibly damaging
rs5000140	NP_904356	R	S	RS	possibly damaging
rs5000141	NP_904357	R	K	RK	benign
rs5000141	NP_904356	R	K	RK	benign
rs5001465	NP_003095	L	I	LI	benign
rs5001465	XP_007651	L	I	LI	benign
rs5002299	XP_058743	T	A	TA	benign
rs5002476	NP_002205	S	F	SF	possibly damaging
rs5003001	NP_612371	R	I	RI	possibly damaging
rs5003033	NP_000304	R	H	RH	benign
rs5003034	NP_000304	A	S	AS	benign

rs5003036	NP_000304	A	T	AT	benign
rs5003037	NP_000304	K	Q	KQ	benign
rs5003726	NP_075389	Y	H	YH	possibly damaging
rs5003730	NP_075389	Y	C	YC	benign
rs5005331	NP_055382	A	V	AV	benign
rs5005333	NP_055382	R	H	RH	benign
rs5005337	NP_055382	D	V	DV	probably damaging
rs5005480	NP_055328	L	F	LF	benign
rs5005481	NP_055328	T	P	TP	benign
rs5005483	NP_055328	T	R	TR	benign
rs5005484	NP_055328	G	A	GA	benign
rs5005485	NP_055328	H	D	HD	possibly damaging
rs5005867	XP_496576	Q	R	QR	benign
rs5005868	XP_496576	I	T	IT	benign
rs5005869	XP_496576	N	S	NS	benign
rs5005871	XP_496576	N	S	NS	benign
rs5006223	XP_371306	W	R	WR	benign
rs5006226	XP_371306	I	T	IT	benign
rs5006227	XP_371306	T	N	TN	benign
rs5006884	XP_372353	L	F	LF	possibly damaging
rs5006885	XP_372353	S	A	SA	benign
rs5006886	XP_372353	R	G	RG	possibly damaging
rs5006887	XP_372353	T	I	TI	benign
rs5006888	XP_372353	S	N	SN	possibly damaging
rs5006889	XP_372353	T	A	TA	possibly damaging
rs5007448	XP_497650	P	T	PT	possibly damaging
rs5007451	XP_497650	N	K	NK	benign
rs5007452	XP_497650	L	M	LM	benign
rs5007633	NP_976028	E	G	EG	benign
rs5007633	NP_005340	E	G	EG	benign
rs5007633	NP_056958	E	G	EG	benign
rs5007633	NP_976029	E	G	EG	benign
rs5009411	NP_653327	V	L	VL	benign
rs5010691	NP_068590	G	E	GE	probably damaging
rs5010975	NP_612371	G	S	GS	benign
rs5011134	NP_976028	A	T	AT	benign
rs5011134	NP_005340	A	T	AT	benign
rs5011134	NP_056958	A	T	AT	benign
rs5011134	NP_976029	A	T	AT	benign
rs5011135	NP_976028	M	K	MK	probably damaging
rs5011135	NP_005340	M	K	MK	probably damaging
rs5011135	NP_056958	M	K	MK	probably damaging
rs5011135	NP_976029	M	K	MK	probably damaging
rs5011295	NP_056493	A	P	AP	benign
rs5012649	XP_377797	P	S	PS	benign
rs5012651	XP_377797	A	S	AS	benign

rs5012990	NP_079334	D	Y	DY	possibly damaging
rs5013003	NP_004263	S	T	ST	benign
rs5013158	NP_002772	T	I	TI	benign
rs5014982	NP_054859	Y	D	YD	benign
rs5015283	XP_496399	G	C	GC	benign
rs5015284	XP_496399	L	S	LS	benign
rs5015286	XP_496399	P	T	PT	benign
rs5015287	XP_496399	E	G	EG	benign
rs5015288	XP_496399	G	V	GV	benign
rs5016136	NP_653327	M	R	MR	probably damaging
rs5017299	NP_667345	H	Y	HY	benign
rs5017299	NP_002495	H	Y	HY	benign
rs5017299	NP_667344	H	Y	HY	benign
rs5017567	NP_003992	Q	P	QP	probably damaging
rs5017567	NP_963857	Q	P	QP	probably damaging
rs5017712	NP_000304	I	V	IV	benign
rs5017713	NP_000304	H	R	HR	possibly damaging
rs5017714	NP_000304	S	F	SF	possibly damaging
rs5017716	NP_000304	S	G	SG	benign
rs5017719	NP_000304	R	C	RC	probably damaging
rs5017899	XP_027074	R	K	RK	benign
rs5017900	XP_027074	G	R	GR	possibly damaging
rs5018018	NP_002967	V	E	VE	benign
rs5018120	NP_775909	I	V	IV	benign
rs5018225	XP_048104	D	V	DV	benign
rs5018687	NP_612371	I	T	IT	benign
rs5018688	NP_612371	S	N	SN	benign
rs5018754	XP_378185	Q	H	QH	benign
rs5018959	NP_005147	S	F	SF	possibly damaging
rs5019203	NP_060656	T	S	TS	benign
rs5019552	NP_000834	D	N	DN	benign
rs5019554	NP_000834	T	I	TI	benign
rs5019555	NP_000834	T	P	TP	benign
rs5020147	NP_004395	D	N	DN	possibly damaging
rs5020154	NP_775909	D	E	DE	benign
rs5020212	XP_376680	D	Y	DY	probably damaging
rs5020275	XP_064879	C	Y	CY	benign
rs5020276	XP_064879	C	R	CR	benign
rs5020277	XP_064879	M	I	MI	possibly damaging
rs5020278	XP_064879	T	M	TM	benign
rs5020279	XP_064879	H	Q	HQ	possibly damaging
rs5020280	XP_064879	S	N	SN	benign
rs5020281	XP_064879	S	C	SC	benign
rs5020531	NP_852094	F	S	FS	benign
rs5021699	NP_066292	E	G	EG	probably damaging
rs5021809	NP_064553	P	R	PR	probably damaging

rs5022253	NP_775909	K	E	KE	benign
rs5022484	NP_056289	S	I	SI	benign
rs5023505	XP_290704	V	A	VA	benign
rs5023661	NP_877577	L	R	LR	possibly damaging
rs5023662	NP_877577	A	S	AS	benign
rs5023688	NP_598000	V	I	VI	benign
rs5023781	NP_001257	L	I	LI	benign
rs5023782	NP_001257	C	F	CF	probably damaging
rs5024042	XP_372353	S	R	SR	possibly damaging
rs5024185	XP_038291	D	A	DA	probably damaging
rs5025132	XP_496533	R	H	RH	benign
rs5025404	NP_114409	V	L	VL	benign
rs5025571	XP_496533	L	P	LP	possibly damaging
rs5025589	NP_829888	D	N	DN	possibly damaging
rs5025830	NP_061137	D	H	DH	possibly damaging
rs5026210	XP_496391	C	S	CS	probably damaging
rs5027004	NP_055568	M	I	MI	possibly damaging
rs5027202	XP_372763	R	W	RW	probably damaging
rs5027208	NP_004496	Q	P	QP	benign
rs5028341	NP_659460	L	F	LF	benign
rs5028973	NP_054770	G	S	GS	benign
rs5029408	NP_002974	S	G	SG	benign
rs5029702	XP_495808	G	R	GR	benign
rs5029703	XP_495808	G	V	GV	benign
rs5029705	XP_495808	N	D	ND	benign
rs5029941	NP_006281	A	V	AV	benign
rs5029942	NP_006281	F	C	FC	benign
rs5029957	NP_006281	A	P	AP	benign
rs5030015	NP_000884	G	S	GS	benign
rs5030024	NP_000884	L	P	LP	probably damaging
rs5030400	NP_000192	R	W	RW	possibly damaging
rs5030593	NP_116787	T	S	TS	benign
rs5030593	NP_001217	T	S	TS	benign
rs5030621	NP_005557	S	R	SR	probably damaging
rs5030622	NP_937799	C	W	CW	probably damaging
rs5030622	NP_000542	C	W	CW	probably damaging
rs5030655	NP_000097	W	G	WG	possibly damaging
rs5030672	NP_000202	R	W	RW	probably damaging
rs5030674	NP_116787	A	T	AT	benign
rs5030674	NP_001217	A	T	AT	benign
rs5030683	NP_116567	E	A	EA	possibly damaging
rs5030683	NP_002581	E	A	EA	possibly damaging
rs5030685	NP_116567	V	A	VA	benign
rs5030685	NP_002581	V	A	VA	benign
rs5030687	NP_620311	T	I	TI	possibly damaging
rs5030687	NP_055391	T	I	TI	possibly damaging



rs5030687	NP_620310	T	I	TI	possibly damaging
rs5030713	NP_612566	Q	R	QR	possibly damaging
rs5030713	NP_612564	Q	R	QR	possibly damaging
rs5030714	NP_612566	C	S	CS	possibly damaging
rs5030714	NP_612567	C	S	CS	possibly damaging
rs5030716	NP_612566	F	L	FL	probably damaging
rs5030716	NP_612567	F	L	FL	probably damaging
rs5030718	NP_612566	E	K	EK	benign
rs5030718	NP_612567	E	K	EK	benign
rs5030719	NP_612566	Q	H	QH	possibly damaging
rs5030719	NP_612567	Q	H	QH	possibly damaging
rs5030722	NP_612566	K	R	KR	benign
rs5030722	NP_612567	K	R	KR	benign
rs5030723	NP_612566	R	H	RH	benign
rs5030723	NP_612567	R	H	RH	benign
rs5030724	NP_612566	Q	K	QK	possibly damaging
rs5030724	NP_612567	Q	K	QK	possibly damaging
rs5030732	NP_004172	S	Y	SY	possibly damaging
rs5030737	NP_000233	R	C	RC	probably damaging
rs5030738	NP_000560	A	D	AD	benign
rs5030739	NP_060597	A	T	AT	benign
rs5030742	NP_002937	L	V	LV	benign
rs5030750	NP_002937	I	N	IN	probably damaging
rs5030751	NP_004437	P	H	PH	probably damaging
rs5030752	NP_004437	I	V	IV	benign
rs5030753	NP_004437	H	Y	HY	possibly damaging
rs5030755	NP_002936	T	A	TA	benign
rs5030764	NP_000165	N	S	NS	benign
rs5030773	NP_000885	Q	R	QR	possibly damaging
rs5030774	NP_000885	G	S	GS	benign
rs5030776	NP_000501	C	G	CG	probably damaging
rs5030777	NP_000501	C	R	CR	probably damaging
rs5030796	NP_006286	G	A	GA	benign
rs5030798	NP_006286	V	I	VI	benign
rs5030803	NP_937799	V	G	VG	possibly damaging
rs5030803	NP_000542	V	G	VG	probably damaging
rs5030804	NP_937799	N	S	NS	benign
rs5030804	NP_000542	N	S	NS	probably damaging
rs5030805	NP_937799	S	I	SI	benign
rs5030805	NP_000542	S	I	SI	probably damaging
rs5030806	NP_937799	P	S	PS	possibly damaging
rs5030806	NP_000542	P	S	PS	probably damaging
rs5030807	NP_937799	L	P	LP	possibly damaging
rs5030807	NP_000542	L	P	LP	probably damaging
rs5030808	NP_937799	G	R	GR	possibly damaging
rs5030808	NP_000542	G	R	GR	probably damaging

rs5030809	NP_937799	Y	H	YH	benign
rs5030809	NP_000542	Y	H	YH	possibly damaging
rs5030811	NP_000542	H	Y	HY	benign
rs5030812	NP_000542	H	R	HR	probably damaging
rs5030818	NP_937799	R	G	RG	possibly damaging
rs5030818	NP_000542	R	G	RG	probably damaging
rs5030820	NP_937799	R	W	RW	possibly damaging
rs5030821	NP_937799	R	Q	RQ	benign
rs5030821	NP_000542	R	Q	RQ	benign
rs5030822	NP_937799	L	Q	LQ	benign
rs5030822	NP_000542	L	Q	LQ	probably damaging
rs5030824	NP_937799	L	V	LV	benign
rs5030824	NP_000542	L	V	LV	benign
rs5030827	NP_937799	V	L	VL	benign
rs5030827	NP_000542	V	L	VL	benign
rs5030828	NP_937799	L	P	LP	possibly damaging
rs5030828	NP_000542	L	P	LP	possibly damaging
rs5030830	NP_000542	L	P	LP	probably damaging
rs5030832	NP_000542	D	G	DG	possibly damaging
rs5030833	NP_000542	F	C	FC	probably damaging
rs5030841	NP_000268	L	S	LS	probably damaging
rs5030842	NP_000268	S	P	SP	probably damaging
rs5030843	NP_000268	R	Q	RQ	probably damaging
rs5030844	NP_000268	L	P	LP	probably damaging
rs5030845	NP_000268	S	P	SP	probably damaging
rs5030847	NP_000268	R	W	RW	probably damaging
rs5030848	NP_000268	G	C	GC	probably damaging
rs5030849	NP_000268	R	Q	RQ	probably damaging
rs5030851	NP_000268	P	L	PL	probably damaging
rs5030853	NP_000268	A	S	AS	benign
rs5030856	NP_000268	E	G	EG	possibly damaging
rs5030857	NP_000268	A	V	AV	possibly damaging
rs5030858	NP_000268	R	W	RW	probably damaging
rs5030859	NP_000268	R	Q	RQ	probably damaging
rs5030860	NP_000268	Y	C	YC	probably damaging
rs5030862	NP_000097	G	R	GR	possibly damaging
rs5030866	NP_000097	G	E	GE	benign
rs5030867	NP_000097	H	P	HP	probably damaging
rs5030868	NP_000393	S	F	SF	benign
rs5030869	NP_000393	A	T	AT	benign
rs5030870	NP_000393	D	N	DN	benign
rs5030872	NP_000393	D	V	DV	possibly damaging
rs5030878	NP_002020	I	T	IT	benign
rs5030880	NP_002020	R	W	RW	probably damaging
rs5030920	NP_001048	I	T	IT	benign
rs5030965	NP_005856	S	I	SI	benign

rs5030980	NP_015531	A	T	AT	benign
rs5031003	NP_612149	A	T	AT	benign
rs5031003	NP_000042	A	T	AT	benign
rs5031003	NP_612150	A	T	AT	benign
rs5031015	NP_009294	A	T	AT	benign
rs5031016	NP_000753	I	T	IT	probably damaging
rs5031016	NP_085079	I	T	IT	probably damaging
rs5031016	NP_000755	I	T	IT	probably damaging
rs5031017	NP_000753	G	V	GV	benign
rs5031039	NP_006155	S	P	SP	benign
rs5031050	NP_612566	F	Y	FY	benign
rs5031050	NP_612567	F	Y	FY	benign
rs5741804	NP_001716	A	V	AV	benign
rs5741809	NP_001716	N	D	ND	benign
rs5742346	NP_786885	M	T	MT	probably damaging
rs5742347	NP_786885	M	I	MI	benign
rs5742796	NP_001335	A	T	AT	benign
rs5742904	NP_000375	R	Q	RQ	benign
rs5742906	NP_847899	P	L	PL	possibly damaging
rs5742912	NP_001029	W	R	WR	probably damaging
rs5742913	NP_963965	P	S	PS	benign
rs5742913	NP_963964	P	S	PS	benign
rs5742913	NP_998813	P	S	PS	benign
rs5742973	NP_000525	E	Q	EQ	benign
rs5743240	NP_006586	M	V	MV	possibly damaging
rs5743271	NP_071445	N	S	NS	benign
rs5743272	NP_071445	H	R	HR	probably damaging
rs5743275	NP_071445	P	L	PL	probably damaging
rs5743276	NP_071445	R	W	RW	benign
rs5743277	NP_071445	R	C	RC	probably damaging
rs5743278	NP_071445	A	G	AG	benign
rs5743279	NP_071445	R	Q	RQ	benign
rs5743291	NP_071445	V	I	VI	benign
rs5743295	NP_071445	R	L	RL	probably damaging
rs5743316	NP_003256	N	I	NI	probably damaging
rs5743317	NP_003256	Y	D	YD	benign
rs5743318	NP_003256	S	T	ST	benign
rs5743342	NP_006083	D	N	DN	benign
rs5743344	NP_006083	A	V	AV	benign
rs5743345	NP_006083	R	W	RW	possibly damaging
rs5743346	NP_006083	A	T	AT	benign
rs5743347	NP_006083	R	H	RH	benign
rs5743497	NP_001716	A	T	AT	benign
rs5743498	NP_001716	A	V	AV	benign
rs5743500	NP_001716	R	C	RC	probably damaging
rs5743506	NP_001716	E	Q	EQ	benign

rs5743509	NP_001716	A	V	AV	benign
rs5743513	NP_001716	K	Q	KQ	benign
rs5743523	NP_001716	P	S	PS	possibly damaging
rs5743524	NP_001716	V	I	VI	benign
rs5743542	NP_001716	K	E	KE	probably damaging
rs5743549	NP_001716	D	H	DH	possibly damaging
rs5743611	NP_003254	R	T	RT	probably damaging
rs5743612	NP_003254	H	Y	HY	probably damaging
rs5743613	NP_003254	P	L	PL	possibly damaging
rs5743617	NP_006059	G	V	GV	benign
rs5743617	NP_003254	V	G	VG	benign
rs5743618	NP_003254	S	I	SI	possibly damaging
rs5743619	NP_003254	L	R	LR	possibly damaging
rs5743621	NP_003254	P	L	PL	probably damaging
rs5743649	NP_004262	S	P	SP	possibly damaging
rs5743651	NP_004262	Y	C	YC	probably damaging
rs5743672	NP_766630	R	H	RH	possibly damaging
rs5743672	NP_005690	R	H	RH	possibly damaging
rs5743672	NP_766632	R	H	RH	possibly damaging
rs5743673	NP_766630	R	Q	RQ	benign
rs5743673	NP_005690	R	Q	RQ	benign
rs5743673	NP_766632	R	Q	RQ	benign
rs5743685	NP_006176	A	T	AT	benign
rs5743699	NP_003255	T	I	TI	possibly damaging
rs5743702	NP_003255	I	T	IT	benign
rs5743703	NP_003255	R	H	RH	benign
rs5743704	NP_003255	P	H	PH	probably damaging
rs5743706	NP_003255	Y	N	YN	probably damaging
rs5743708	NP_003255	R	Q	RQ	possibly damaging
rs5743781	NP_057646	A	V	AV	benign
rs5743808	NP_006059	I	T	IT	benign
rs5743809	NP_006059	L	P	LP	benign
rs5743810	NP_006059	S	P	SP	possibly damaging
rs5743811	NP_006059	T	I	TI	possibly damaging
rs5743813	NP_006059	H	Y	HY	probably damaging
rs5743815	NP_006059	V	A	VA	benign
rs5743816	NP_006059	V	I	VI	benign
rs5743817	NP_006059	A	T	AT	benign
rs5743819	NP_006059	N	D	ND	possibly damaging
rs5743820	NP_006059	T	M	TM	benign
rs5743822	NP_006059	M	V	MV	benign
rs5743842	NP_059138	R	C	RC	possibly damaging
rs5743843	NP_059138	H	Q	HQ	probably damaging
rs5743844	NP_059138	P	L	PL	probably damaging
rs5743845	NP_059138	R	Q	RQ	benign
rs5743846	NP_059138	A	T	AT	benign

rs5744015	NP_061882	A	S	AS	benign
rs5744077	NP_057694	M	V	MV	benign
rs5744077	NP_619542	M	V	MV	benign
rs5744082	NP_057694	R	Q	RQ	benign
rs5744082	NP_619542	R	Q	RQ	benign
rs5744166	NP_003259	P	A	PA	possibly damaging
rs5744167	NP_003259	N	T	NT	benign
rs5744171	NP_003259	L	I	LI	benign
rs5744173	NP_003259	N	T	NT	benign
rs5744174	NP_003259	F	L	FL	benign
rs5744175	NP_003259	I	F	IF	benign
rs5744176	NP_003259	D	G	DG	possibly damaging
rs5744177	NP_003259	D	G	DG	benign
rs5744204	NP_004130	V	M	VM	benign
rs5744212	NP_004130	L	F	LF	benign
rs5744213	NP_004130	R	W	RW	probably damaging
rs5744220	NP_004130	Y	C	YC	probably damaging
rs5744409	NP_001276	Y	H	YH	possibly damaging
rs5744463	NP_005573	V	L	VL	benign
rs5744525	NP_005573	D	N	DN	benign
rs5744713	NP_057302	T	I	TI	benign
rs5744716	NP_057302	S	N	SN	benign
rs5744739	NP_006222	P	L	PL	benign
rs5744751	NP_006222	A	V	AV	benign
rs5744752	NP_006222	R	Q	RQ	benign
rs5744760	NP_006222	N	S	NS	benign
rs5744799	NP_006222	F	I	FI	possibly damaging
rs5744800	NP_006222	P	S	PS	probably damaging
rs5744904	NP_006222	R	C	RC	probably damaging
rs5744933	NP_006222	Y	C	YC	probably damaging
rs5744934	NP_006222	N	S	NS	possibly damaging
rs5744935	NP_006222	E	Q	EQ	benign
rs5744947	NP_006222	K	R	KR	benign
rs5744948	NP_006222	E	A	EA	benign
rs5744950	NP_006222	A	V	AV	benign
rs5744971	NP_006222	K	R	KR	benign
rs5744991	NP_006222	C	Y	CY	benign
rs5745021	NP_006222	A	V	AV	benign
rs5745066	NP_006222	E	K	EK	benign
rs5745067	NP_006222	R	C	RC	possibly damaging
rs5745068	NP_006222	R	H	RH	benign
rs5745100	NP_001196	Q	H	QH	possibly damaging
rs5745100	NP_053581	Q	H	QH	possibly damaging
rs5745100	NP_053583	Q	H	QH	possibly damaging
rs5745100	NP_053582	Q	H	QH	possibly damaging
rs5745311	NP_002431	A	V	AV	benign

rs5745324	NP_002431	A	T	AT	benign
rs5745325	NP_002431	A	T	AT	benign
rs5745329	NP_002431	E	K	EK	benign
rs5745459	NP_002431	Y	C	YC	probably damaging
rs5745549	NP_002431	S	N	SN	benign
rs5745592	NP_001179	S	R	SR	possibly damaging
rs5745687	NP_000592	E	K	EK	benign
rs5745688	NP_000592	D	Y	DY	probably damaging
rs5745796	NP_031396	A	T	AT	benign
rs5745905	NP_078884	S	C	SC	benign
rs5745906	NP_078884	G	D	GD	possibly damaging
rs5745907	NP_078884	C	R	CR	probably damaging
rs5745926	NP_078884	D	N	DN	benign
rs5745934	NP_006706	R	K	RK	benign
rs5746025	NP_001057	V	M	VM	benign
rs5746026	NP_001057	E	K	EK	benign
rs5746027	NP_001057	A	T	AT	benign
rs5746031	NP_001057	L	P	LP	possibly damaging
rs5746032	NP_001057	Q	R	QR	benign
rs5746096	NP_000627	S	I	SI	possibly damaging
rs5746097	NP_000627	E	V	EV	benign
rs5746129	NP_000627	R	W	RW	benign
rs5746220	NP_002871	P	L	PL	probably damaging
rs5746260	NP_054879	R	Q	RQ	possibly damaging
rs5746841	NP_665691	Q	H	QH	possibly damaging
rs5746841	NP_006431	Q	H	QH	possibly damaging
rs5746841	NP_665690	Q	H	QH	probably damaging
rs5746863	NP_002873	A	V	AV	benign
rs5747933	NP_057419	T	N	TN	benign
rs5747972	NP_005128	V	G	VG	possibly damaging
rs5748449	NP_443730	R	H	RH	benign
rs5748469	NP_665691	A	S	AS	benign
rs5748469	NP_006431	A	S	AS	benign
rs5748493	NP_001661	G	R	GR	possibly damaging
rs5748529	NP_073557	A	V	AV	benign
rs5748539	NP_037505	A	T	AT	benign
rs5749088	XP_117224	A	T	AT	benign
rs5749118	XP_496524	R	K	RK	benign
rs5749408	NP_006595	Y	C	YC	benign
rs5749645	NP_680481	L	V	LV	benign
rs5749645	NP_680480	L	V	LV	benign
rs5750925	XP_039385	Q	H	QH	benign
rs5751066	NP_113676	S	F	SF	benign
rs5751819	NP_004112	E	K	EK	benign
rs5751823	XP_496518	H	R	HR	benign
rs5752195	NP_004773	T	I	TI	benign

rs5752330	NP_690054	V	M	VM	benign
rs5752330	NP_071364	V	M	VM	benign
rs5753190	XP_496524	Q	R	QR	possibly damaging
rs5753567	NP_114439	A	T	AT	benign
rs5753567	NP_114440	A	T	AT	benign
rs5753567	NP_114441	A	T	AT	benign
rs5753567	NP_055138	A	T	AT	benign
rs5753700	XP_038520	Y	H	YH	possibly damaging
rs5754014	NP_006595	P	S	PS	probably damaging
rs5755713	NP_002124	Q	H	QH	possibly damaging
rs5756514	NP_694564	S	F	SF	possibly damaging
rs5756514	NP_705837	S	F	SF	possibly damaging
rs5756870	NP_008872	D	N	DN	possibly damaging
rs5756896	NP_036539	Q	H	QH	benign
rs5757262	NP_004277	Q	H	QH	possibly damaging
rs5757921	NP_000017	S	N	SN	possibly damaging
rs5758075	NP_006349	L	M	LM	benign
rs5758252	NP_001420	T	S	TS	benign
rs5758380	NP_001089	L	I	LI	benign
rs5758399	NP_001460	I	F	IF	benign
rs5758651	NP_852469	S	G	SG	benign
rs5758651	NP_005641	S	G	SG	benign
rs5758702	NP_006106	L	V	LV	benign
rs5758778	NP_056518	V	L	VL	benign
rs5758801	NP_055324	V	D	VD	possibly damaging
rs5758801	NP_733795	V	D	VD	possibly damaging
rs5759612	NP_004905	N	D	ND	benign
rs5760010	NP_005931	Q	H	QH	benign
rs5760185	NP_036427	A	T	AT	benign
rs5760243	NP_062547	L	M	LM	benign
rs5760274	NP_004112	L	I	LI	benign
rs5760289	XP_371424	R	G	RG	probably damaging
rs5760340	XP_037759	S	F	SF	possibly damaging
rs5760619	XP_496521	L	V	LV	benign
rs5761170	NP_115997	W	R	WR	possibly damaging
rs5761360	NP_115997	S	I	SI	benign
rs5761634	NP_001878	G	R	GR	possibly damaging
rs5761750	NP_006758	E	Q	EQ	benign
rs5762046	XP_496501	D	V	DV	benign
rs5762809	NP_005071	A	T	AT	benign
rs5763120	NP_036397	S	R	SR	benign
rs5763933	NP_114143	R	S	RS	possibly damaging
rs5764214	NP_073622	T	A	TA	benign
rs5764214	NP_942153	T	A	TA	benign
rs5764698	NP_683515	L	M	LM	benign
rs5766190	NP_612424	S	N	SN	benign

rs5766863	NP_006062	S	N	SN	benign
rs5768535	NP_057510	L	V	LV	benign
rs5769060	XP_027105	T	I	TI	possibly damaging
rs5770848	NP_149977	R	S	RS	benign
rs5770886	NP_612442	Q	R	QR	benign
rs5771002	NP_001088	M	V	MV	benign
rs5771107	NP_065194	S	C	SC	benign
rs5771231	NP_113642	A	S	AS	benign
rs5771604	XP_496486	S	Y	SY	benign
rs5904570	NP_055742	S	R	SR	possibly damaging
rs5904861	XP_497170	D	Y	DY	probably damaging
rs5905720	NP_079135	L	V	LV	benign
rs5905881	XP_372204	L	W	LW	probably damaging
rs5906354	NP_695012	R	H	RH	benign
rs5906358	NP_148978	P	L	PL	probably damaging
rs5906526	XP_092995	T	S	TS	benign
rs5906744	NP_079135	R	H	RH	benign
rs5906755	NP_005174	R	L	RL	probably damaging
rs5909299	XP_372199	A	T	AT	benign
rs5910348	NP_061918	S	R	SR	possibly damaging
rs5911741	NP_006594	R	K	RK	benign
rs5911751	NP_006594	P	L	PL	probably damaging
rs5913638	NP_000282	E	D	ED	possibly damaging
rs5915289	XP_050478	S	N	SN	benign
rs5916769	NP_942582	H	Q	HQ	possibly damaging
rs5916769	NP_060222	H	Q	HQ	probably damaging
rs5917414	NP_004643	M	T	MT	benign
rs5917414	NP_068706	M	T	MT	benign
rs5918228	NP_005291	E	Q	EQ	benign
rs5918811	NP_002538	G	R	GR	possibly damaging
rs5921979	NP_000298	A	G	AG	possibly damaging
rs5924658	NP_775764	Q	E	QE	benign
rs5926895	XP_293354	T	A	TA	benign
rs5926910	XP_498353	I	V	IV	benign
rs5927629	NP_690000	R	W	RW	possibly damaging
rs5927629	NP_938054	R	W	RW	probably damaging
rs5928433	XP_066695	P	R	PR	benign
rs5929931	XP_498392	W	L	WL	probably damaging
rs5930670	NP_003919	S	W	SW	benign
rs5930781	XP_498390	P	S	PS	possibly damaging
rs5931046	NP_473362	L	P	LP	benign
rs5934750	NP_056506	A	T	AT	benign
rs5937160	NP_071763	S	N	SN	benign
rs5937160	NP_660095	S	N	SN	benign
rs5937177	XP_498452	R	Q	RQ	benign
rs5940668	NP_001280	R	C	RC	benign



rs5943854	XP_373340	N	S	NS	benign
rs5944317	NP_775970	S	P	SP	benign
rs5944420	XP_093087	A	T	AT	benign
rs5944856	NP_525129	G	A	GA	benign
rs5944882	XP_040486	Q	R	QR	benign
rs5945029	NP_525129	A	V	AV	benign
rs5945234	NP_001354	S	N	SN	benign
rs5945418	NP_001447	T	P	TP	benign
rs5945430	NP_059984	E	D	ED	benign
rs5948798	NP_037371	A	T	AT	benign
rs5950504	XP_498383	V	A	VA	benign
rs5950505	XP_498383	I	T	IT	probably damaging
rs5951426	NP_689790	D	E	DE	benign
rs5951639	NP_056968	R	P	RP	probably damaging
rs5952410	NP_000257	D	E	DE	benign
rs5952474	NP_775493	R	C	RC	probably damaging
rs5952606	XP_498361	R	K	RK	benign
rs5953089	XP_373344	R	G	RG	possibly damaging
rs5953281	XP_372210	R	H	RH	benign
rs5953618	NP_115793	V	L	VL	benign
rs5953851	XP_066457	V	I	VI	benign
rs5956583	NP_001158	Q	P	QP	possibly damaging
rs5958251	XP_373368	V	A	VA	benign
rs5959129	XP_497185	R	Q	RQ	probably damaging
rs5959130	NP_000043	V	L	VL	benign
rs5962707	NP_060485	M	I	MI	benign
rs5962813	NP_005368	H	Q	HQ	benign
rs5963403	NP_000319	Q	H	QH	benign
rs5963719	NP_940913	F	S	FS	possibly damaging
rs5963721	NP_940913	A	V	AV	benign
rs5964967	XP_374328	A	P	AP	benign
rs5964968	XP_374328	P	L	PL	probably damaging
rs5968704	NP_000381	T	S	TS	possibly damaging
rs5969783	NP_060830	I	V	IV	benign
rs5970376	NP_786885	V	D	VD	benign
rs5971193	NP_997202	E	D	ED	benign
rs5972599	NP_000100	A	V	AV	benign
rs5972599	NP_003997	A	V	AV	benign
rs5972599	NP_003998	A	V	AV	benign
rs5972599	NP_004000	A	V	AV	benign
rs5972599	NP_004001	A	V	AV	benign
rs5974620	NP_004831	Q	H	QH	possibly damaging
rs5975187	NP_848566	S	L	SL	benign
rs5976127	XP_498392	D	N	DN	benign
rs5977625	NP_919253	S	L	SL	benign
rs5982146	NP_065983	A	T	AT	benign

rs5983119	NP_056234	V	I	VI	benign
rs5983120	NP_056234	V	L	VL	benign
rs5985391	XP_497141	R	C	RC	possibly damaging
rs5986182	NP_775494	D	N	DN	benign
rs5986591	NP_005382	R	K	RK	benign
rs5987003	NP_066274	P	A	PA	possibly damaging
rs5987076	NP_000123	T	P	TP	benign
rs5987155	NP_005384	M	T	MT	benign
rs5987182	NP_001657	A	V	AV	benign
rs5987256	NP_006721	D	A	DA	possibly damaging
rs5988564	XP_498350	K	N	KN	benign
rs5988564	XP_498407	K	N	KN	benign
rs5989643	NP_037371	Q	H	QH	possibly damaging
rs5989643	NP_955358	Q	H	QH	possibly damaging
rs5992128	XP_032997	M	L	ML	benign
rs5992495	NP_665690	S	R	SR	benign
rs5992495	NP_665691	S	R	SR	benign
rs5992495	NP_006431	S	R	SR	benign
rs5994570	NP_777592	V	L	VL	benign
rs5995361	NP_000622	A	E	AE	benign
rs5995378	NP_694564	S	L	SL	possibly damaging
rs5995378	NP_705837	S	L	SL	possibly damaging
rs5995649	NP_004891	T	K	TK	benign
rs5995720	NP_009059	E	K	EK	benign
rs5995741	NP_002400	A	D	AD	possibly damaging
rs5995794	NP_612444	R	G	RG	possibly damaging
rs5996694	XP_037759	A	V	AV	benign
rs5997872	NP_008863	A	V	AV	benign
rs5997872	NP_599031	A	V	AV	benign
rs5997872	NP_599032	A	V	AV	benign
rs5997875	NP_599031	K	N	KN	benign
rs5997883	XP_496526	Q	H	QH	benign
rs5997917	NP_005560	G	S	GS	benign
rs5998267	XP_086894	L	P	LP	possibly damaging
rs5998478	NP_777592	S	P	SP	possibly damaging
rs5998495	NP_777592	S	R	SR	benign
rs5999923	NP_085144	N	K	NK	benign
rs6000152	NP_085147	A	V	AV	benign
rs6000152	NP_663614	A	V	AV	benign
rs6000152	NP_663615	A	V	AV	benign
rs6000152	NP_055164	A	V	AV	benign
rs6000546	NP_078957	E	K	EK	benign
rs6000577	NP_000869	S	Y	SY	benign
rs6000698	XP_056282	S	Y	SY	possibly damaging
rs6000998	NP_563581	L	F	LF	possibly damaging
rs6001000	NP_563581	S	G	SG	possibly damaging

rs6001200	NP_055691	S	R	SR	benign
rs6001210	NP_004277	K	N	KN	possibly damaging
rs6001357	NP_004891	E	D	ED	benign
rs6001854	XP_039385	Q	H	QH	benign
rs6002520	NP_004590	A	T	AT	benign
rs6002656	NP_852469	T	N	TN	benign
rs6002656	NP_005641	T	N	TN	benign
rs6003030	NP_036395	S	L	SL	benign
rs6003139	NP_954578	R	Q	RQ	benign
rs6003139	NP_543029	R	Q	RQ	possibly damaging
rs6003982	XP_208261	S	C	SC	benign
rs6004105	NP_004112	Q	H	QH	benign
rs6004132	XP_037759	T	A	TA	benign
rs6004318	XP_059318	L	V	LV	benign
rs6004350	XP_059318	T	P	TP	benign
rs6004901	NP_115997	G	A	GA	benign
rs6004989	NP_066938	P	L	PL	benign
rs6005062	NP_036275	N	S	NS	benign
rs6005371	XP_375963	A	T	AT	benign
rs6005716	XP_496502	M	V	MV	benign
rs6006259	NP_115580	R	L	RL	probably damaging
rs6006436	NP_073622	E	K	EK	benign
rs6006436	NP_942153	E	K	EK	benign
rs6006438	NP_073622	S	A	SA	benign
rs6006438	NP_942153	S	A	SA	benign
rs6006514	NP_942153	R	W	RW	possibly damaging
rs6006514	NP_073622	R	W	RW	probably damaging
rs6006979	NP_008884	Q	L	QL	probably damaging
rs6007304	NP_851851	R	W	RW	probably damaging
rs6007344	NP_851851	G	R	GR	benign
rs6007594	NP_060381	H	R	HR	benign
rs6007897	NP_055061	T	A	TA	benign
rs6008057	NP_055161	K	N	KN	benign
rs6008384	NP_006062	N	S	NS	benign
rs6008394	NP_006062	R	Q	RQ	benign
rs6008600	NP_057510	T	A	TA	benign
rs6008622	NP_057510	S	N	SN	benign
rs6008684	NP_057510	D	E	DE	benign
rs6008777	NP_055061	S	L	SL	possibly damaging
rs6008794	NP_055061	L	P	LP	probably damaging
rs6008795	NP_055061	L	P	LP	probably damaging
rs6008842	NP_055061	V	I	VI	benign
rs6009915	XP_376023	S	I	SI	possibly damaging
rs6009968	NP_002963	R	K	RK	benign
rs6010066	NP_002963	L	V	LV	benign
rs6010154	NP_079480	P	L	PL	possibly damaging

rs6010209	NP_065194	D	E	DE	benign
rs6010260	NP_055981	C	F	CF	probably damaging
rs6010260	NP_631941	C	F	CF	probably damaging
rs6010318	XP_496486	R	C	RC	benign
rs6010456	XP_496486	R	H	RH	benign
rs6010714	NP_942016	V	I	VI	benign
rs6010736	NP_004526	P	L	PL	probably damaging
rs6011194	NP_542189	P	L	PL	benign
rs6011414	NP_001844	G	S	GS	possibly damaging
rs6011439	NP_689515	P	L	PL	benign
rs6011440	NP_689515	P	L	PL	benign
rs6011693	NP_071444	A	G	AG	benign
rs6011693	NP_647478	A	G	AG	benign
rs6011889	NP_543013	A	V	AV	benign
rs6011974	NP_955473	R	K	RK	benign
rs6012504	NP_065871	A	T	AT	benign
rs6012764	NP_056081	L	F	LF	benign
rs6015225	NP_542405	F	Y	FY	benign
rs6015609	NP_817089	I	T	IT	benign
rs6017104	NP_056293	I	M	IM	benign
rs6017146	NP_002457	N	S	NS	benign
rs6017577	NP_542771	T	I	TI	benign
rs6017577	NP_542772	T	I	TI	possibly damaging
rs6017577	NP_542774	T	I	TI	possibly damaging
rs6017667	XP_372869	G	S	GS	benign
rs6017704	NP_542790	L	F	LF	benign
rs6017725	NP_004985	P	L	PL	probably damaging
rs6018008	NP_110404	T	A	TA	benign
rs6018260	NP_938033	L	F	LF	benign
rs6018612	NP_006525	P	L	PL	probably damaging
rs6018612	NP_858045	P	L	PL	probably damaging
rs6018831	XP_378982	A	E	AE	benign
rs6019092	XP_378983	S	P	SP	possibly damaging
rs6019331	NP_065871	R	C	RC	probably damaging
rs6019652	NP_055717	A	T	AT	benign
rs6020123	NP_006029	P	L	PL	probably damaging
rs6020624	NP_543019	P	L	PL	benign
rs6021695	NP_955459	S	I	SI	possibly damaging
rs6021773	NP_060667	P	L	PL	benign
rs6021773	NP_955458	P	L	PL	benign
rs6021773	NP_955459	P	L	PL	probably damaging
rs6022363	NP_055472	L	F	LF	benign
rs6022903	NP_003648	G	E	GE	benign
rs6024235	XP_028810	P	L	PL	probably damaging
rs6024909	NP_057491	T	A	TA	benign
rs6025516	NP_003601	L	F	LF	possibly damaging

rs6025606	NP_542185	T	A	TA	benign
rs6026113	NP_065069	A	S	AS	benign
rs6026151	XP_086650	R	W	RW	probably damaging
rs6026192	NP_065724	G	S	GS	possibly damaging
rs6027210	NP_071389	Y	C	YC	probably damaging
rs6028244	NP_068750	P	L	PL	probably damaging
rs6029542	NP_003277	G	S	GS	possibly damaging
rs6029673	NP_115597	P	L	PL	probably damaging
rs6029674	NP_115597	P	L	PL	possibly damaging
rs6029707	NP_115597	P	L	PL	probably damaging
rs6030948	NP_056293	H	R	HR	possibly damaging
rs6031602	NP_000448	P	L	PL	probably damaging
rs6031602	NP_849180	P	L	PL	probably damaging
rs6031861	NP_647539	F	Y	FY	benign
rs6031861	NP_003395	F	Y	FY	benign
rs6032575	NP_542175	P	L	PL	probably damaging
rs6032577	NP_542787	H	Q	HQ	probably damaging
rs6032606	NP_071378	S	T	ST	benign
rs6032623	NP_004985	P	L	PL	probably damaging
rs6032913	NP_000205	G	S	GS	possibly damaging
rs6033876	XP_209363	G	E	GE	possibly damaging
rs6034239	NP_061026	L	S	LS	possibly damaging
rs6034464	NP_078980	M	T	MT	benign
rs6034867	NP_004578	H	L	HL	benign
rs6035037	NP_060622	G	S	GS	benign
rs6036399	NP_071363	A	T	AT	possibly damaging
rs6036661	NP_077301	G	S	GS	benign
rs6037077	NP_002853	P	L	PL	benign
rs6037626	NP_036202	L	F	LF	benign
rs6037626	NP_647538	L	F	LF	benign
rs6037626	NP_647537	L	F	LF	benign
rs6037651	NP_075556	V	M	VM	benign
rs6037782	NP_787034	P	L	PL	probably damaging
rs6037782	NP_787036	P	L	PL	probably damaging
rs6037782	NP_787033	P	L	PL	probably damaging
rs6040067	NP_000205	V	I	VI	benign
rs6042203	NP_060184	G	S	GS	benign
rs6042368	NP_077025	L	F	LF	benign
rs6042507	XP_209363	E	A	EA	benign
rs6045115	NP_689413	P	L	PL	probably damaging
rs6045116	NP_689413	P	L	PL	probably damaging
rs6045322	NP_003425	R	K	RK	benign
rs6045391	NP_060622	S	C	SC	possibly damaging
rs6045440	NP_116781	P	L	PL	probably damaging
rs6045442	NP_116781	P	L	PL	probably damaging
rs6046368	NP_695001	K	N	KN	benign

rs6046544	NP_852668	G	S	GS	possibly damaging
rs6046544	NP_852669	G	S	GS	possibly damaging
rs6046544	NP_057184	G	S	GS	possibly damaging
rs6046905	XP_046600	R	K	RK	benign
rs6046906	XP_046600	R	K	RK	benign
rs6046965	XP_046600	P	L	PL	probably damaging
rs6047420	NP_036387	R	C	RC	possibly damaging
rs6048538	NP_036204	S	Y	SY	benign
rs6048760	NP_071927	Q	P	QP	benign
rs6048766	NP_071927	D	N	DN	benign
rs6049415	NP_077301	P	L	PL	probably damaging
rs6050063	NP_542789	K	R	KR	benign
rs6050249	NP_115890	V	M	VM	benign
rs6050307	NP_955457	R	S	RS	benign
rs6050307	NP_055403	R	S	RS	benign
rs6050446	NP_001238	E	K	EK	benign
rs6051452	NP_536338	I	L	IL	benign
rs6051452	NP_072097	I	L	IL	benign
rs6051545	NP_847901	A	V	AV	benign
rs6051545	NP_847902	A	V	AV	benign
rs6051545	NP_001492	A	V	AV	benign
rs6053426	NP_787073	I	K	IK	probably damaging
rs6053427	NP_787073	A	T	AT	benign
rs6053827	NP_061968	G	R	GR	possibly damaging
rs6053860	NP_689824	E	K	EK	benign
rs6053892	NP_060141	Q	H	QH	possibly damaging
rs6054614	NP_212134	D	G	DG	benign
rs6055290	NP_997004	L	I	LI	benign
rs6056634	NP_000924	M	L	ML	possibly damaging
rs6056634	NP_877949	M	L	ML	possibly damaging
rs6057581	NP_056153	L	F	LF	benign
rs6057717	NP_872599	H	Q	HQ	benign
rs6057900	NP_116208	A	T	AT	benign
rs6058693	NP_056153	V	I	VI	benign
rs6058694	NP_056153	P	L	PL	benign
rs6059063	NP_872599	Y	C	YC	benign
rs6059745	NP_001663	P	L	PL	benign
rs6059862	NP_113671	R	K	RK	benign
rs6060022	NP_054790	I	V	IV	benign
rs6060031	NP_054790	P	L	PL	probably damaging
rs6060147	XP_371398	A	V	AV	benign
rs6060148	XP_371398	Q	R	QR	probably damaging
rs6060248	NP_060687	R	Q	RQ	benign
rs6060465	NP_938408	G	S	GS	benign
rs6060465	NP_057050	G	S	GS	benign
rs6060714	NP_361012	T	I	TI	benign

rs6060750	NP_543024	S	P	SP	probably damaging
rs6060966	NP_149109	K	N	KN	benign
rs6060969	NP_149109	G	R	GR	probably damaging
rs6061210	NP_848560	V	I	VI	benign
rs6061520	NP_543023	L	V	LV	benign
rs6062133	NP_056481	G	S	GS	benign
rs6062179	NP_055650	L	F	LF	possibly damaging
rs6062179	NP_653081	L	F	LF	possibly damaging
rs6062223	NP_005551	V	M	VM	benign
rs6062554	NP_542189	S	N	SN	benign
rs6062592	NP_060329	L	F	LF	benign
rs6062599	NP_065764	A	T	AT	benign
rs6062627	NP_872588	Q	H	QH	benign
rs6062680	NP_060727	G	S	GS	possibly damaging
rs6063343	NP_006411	A	V	AV	benign
rs6063377	NP_060365	S	G	SG	benign
rs6063921	NP_775756	P	L	PL	benign
rs6063966	NP_006517	V	I	VI	benign
rs6065316	NP_002651	L	F	LF	benign
rs6065316	NP_877963	L	F	LF	benign
rs6065903	NP_872617	R	W	RW	probably damaging
rs6065903	NP_006218	R	W	RW	probably damaging
rs6066247	NP_898868	P	L	PL	possibly damaging
rs6066247	NP_036540	P	L	PL	possibly damaging
rs6066247	NP_898869	P	L	PL	probably damaging
rs6066424	NP_006525	L	V	LV	benign
rs6066424	NP_858045	L	V	LV	benign
rs6066430	NP_940998	L	M	LM	benign
rs6066430	NP_061325	L	M	LM	benign
rs6066805	NP_065871	S	N	SN	benign
rs6067121	NP_000952	Q	H	QH	benign
rs6067232	NP_056081	A	T	AT	benign
rs6067593	NP_110517	L	I	LI	benign
rs6067777	NP_775114	P	L	PL	probably damaging
rs6067785	NP_775114	T	N	TN	benign
rs6068589	NP_006517	M	V	MV	benign
rs6068699	XP_372870	P	L	PL	probably damaging
rs6069717	NP_003591	G	R	GR	benign
rs6069717	NP_940835	G	R	GR	benign
rs6069717	NP_940836	G	R	GR	benign
rs6069717	NP_940837	G	R	GR	benign
rs6069717	NP_940838	G	R	GR	benign
rs6069717	NP_940839	G	R	GR	benign
rs6069926	NP_004130	G	S	GS	benign
rs6069986	NP_055717	L	F	LF	benign
rs6069986	NP_892118	L	F	LF	possibly damaging

rs6070122	NP_542185	Q	E	QE	benign
rs6070128	NP_542185	E	Q	EQ	benign
rs6070697	NP_110400	R	H	RH	benign
rs6071006	NP_055073	T	I	TI	possibly damaging
rs6071059	NP_817089	G	R	GR	probably damaging
rs6071067	NP_817089	P	L	PL	probably damaging
rs6071069	NP_817089	A	S	AS	benign
rs6073538	NP_071753	P	T	PT	benign
rs6073648	NP_002942	G	R	GR	possibly damaging
rs6073652	NP_543145	G	R	GR	possibly damaging
rs6074204	NP_848693	L	F	LF	benign
rs6074550	NP_060797	Y	H	YH	benign
rs6074681	XP_209363	S	I	SI	benign
rs6076020	NP_036204	G	C	GC	benign
rs6076022	NP_036204	Q	H	QH	benign
rs6076347	XP_375911	V	I	VI	benign
rs6076383	NP_056470	G	S	GS	benign
rs6076437	NP_072097	P	L	PL	possibly damaging
rs6076556	NP_060817	P	L	PL	probably damaging
rs6077510	NP_000924	T	A	TA	benign
rs6077510	NP_877949	T	A	TA	benign
rs6077563	NP_817127	S	I	SI	possibly damaging
rs6077853	XP_059267	R	Q	RQ	benign
rs6077862	NP_000205	H	Q	HQ	probably damaging
rs6077865	NP_000205	G	C	GC	probably damaging
rs6078529	NP_055538	A	S	AS	benign
rs6079171	NP_057733	P	L	PL	probably damaging
rs6079391	NP_938205	H	Q	HQ	benign
rs6080719	NP_001186	G	S	GS	benign
rs6081011	NP_808779	P	L	PL	probably damaging
rs6081027	NP_808779	A	S	AS	benign
rs6081370	XP_497758	L	Q	LQ	probably damaging
rs6081371	XP_497758	A	T	AT	benign
rs6081830	NP_061866	G	S	GS	benign
rs6082984	NP_001043	G	S	GS	benign
rs6083553	NP_079169	G	R	GR	possibly damaging
rs6084275	NP_068598	P	L	PL	probably damaging
rs6084434	NP_694882	R	K	RK	benign
rs6084434	NP_079496	R	K	RK	benign
rs6084654	NP_787033	R	P	RP	possibly damaging
rs6085324	NP_001810	S	T	ST	benign
rs6085329	NP_057023	Q	H	QH	possibly damaging
rs6085333	NP_877954	A	P	AP	benign
rs6085333	NP_115874	A	P	AP	benign
rs6085343	NP_061968	A	T	AT	benign
rs6086575	NP_877398	R	K	RK	benign



rs6086575	NP_056007	R	K	RK	benign
rs6086931	NP_817127	L	F	LF	benign
rs6087119	NP_942093	R	Q	RQ	possibly damaging
rs6087680	NP_851998	L	M	LM	benign
rs6087680	NP_002156	L	M	LM	benign
rs6087714	NP_009117	A	D	AD	benign
rs6087870	NP_004789	Q	H	QH	benign
rs6088066	NP_079503	K	M	KM	benign
rs6088729	NP_851998	S	R	SR	benign
rs6088729	NP_002156	S	R	SR	benign
rs6088810	NP_060714	P	L	PL	probably damaging
rs6088810	NP_955781	P	L	PL	probably damaging
rs6088868	NP_009117	A	D	AD	benign
rs6088929	NP_004893	P	L	PL	probably damaging
rs6088929	NP_909122	P	L	PL	probably damaging
rs6089009	NP_818932	R	K	RK	possibly damaging
rs6089009	NP_036288	R	K	RK	possibly damaging
rs6089015	NP_818932	R	K	RK	benign
rs6089015	NP_036288	R	K	RK	benign
rs6089016	NP_818932	P	R	PR	possibly damaging
rs6089016	NP_036288	P	R	PR	probably damaging
rs6089095	NP_004109	T	I	TI	benign
rs6089165	NP_002101	T	I	TI	benign
rs6089166	NP_002101	S	I	SI	probably damaging
rs6089219	XP_496479	T	K	TK	possibly damaging
rs6089366	NP_543023	E	K	EK	benign
rs6089387	NP_536721	G	R	GR	probably damaging
rs6089558	NP_001785	A	D	AD	benign
rs6089728	NP_005551	R	C	RC	benign
rs6089764	NP_852149	P	L	PL	probably damaging
rs6089764	NP_852150	P	L	PL	probably damaging
rs6089764	NP_115916	P	L	PL	probably damaging
rs6089959	NP_057518	G	S	GS	benign
rs6089959	NP_116575	G	S	GS	benign
rs6090066	NP_004526	G	S	GS	benign
rs6090070	NP_004526	D	N	DN	benign
rs6090151	NP_057438	R	K	RK	benign
rs6090160	NP_071388	P	L	PL	probably damaging
rs6090160	NP_542986	P	L	PL	probably damaging
rs6090160	NP_542987	P	L	PL	probably damaging
rs6090161	NP_071388	P	L	PL	probably damaging
rs6090161	NP_542986	P	L	PL	probably damaging
rs6090161	NP_542987	P	L	PL	probably damaging
rs6090343	NP_783202	Q	H	QH	possibly damaging
rs6090343	NP_060679	Q	H	QH	possibly damaging
rs6091375	NP_065169	I	L	IL	benign

rs6091654	NP_055472	K	E	KE	benign
rs6092491	NP_542185	R	H	RH	benign
rs6092497	NP_002582	P	L	PL	probably damaging
rs6092501	NP_110403	Q	H	QH	benign
rs6092514	NP_954638	G	S	GS	benign
rs6092514	NP_954640	G	S	GS	benign
rs6093434	NP_689470	G	S	GS	benign
rs6093571	NP_008981	R	K	RK	benign
rs6093571	NP_573400	R	K	RK	benign
rs6093980	NP_000448	L	F	LF	benign
rs6093980	NP_849180	L	F	LF	benign
rs6093980	NP_849181	L	F	LF	benign
rs6094061	NP_006800	R	K	RK	benign
rs6094231	NP_071378	G	S	GS	benign
rs6094438	NP_110404	A	S	AS	benign
rs6094645	NP_036540	G	S	GS	benign
rs6094645	NP_898868	G	S	GS	possibly damaging
rs6094645	NP_898869	G	S	GS	possibly damaging
rs6094752	NP_006525	R	C	RC	probably damaging
rs6094752	NP_858045	R	C	RC	probably damaging
rs6094755	NP_006525	P	L	PL	probably damaging
rs6094755	NP_858045	P	L	PL	probably damaging
rs6094756	NP_006525	L	F	LF	benign
rs6094756	NP_858045	L	F	LF	benign
rs6095318	NP_065871	L	M	LM	benign
rs6095427	NP_001307	A	T	AT	benign
rs6096164	NP_852107	G	S	GS	benign
rs6096166	NP_852107	P	L	PL	probably damaging
rs6096533	XP_030577	L	F	LF	benign
rs6097319	NP_775756	A	T	AT	benign
rs6099115	NP_543011	P	S	PS	possibly damaging
rs6100055	NP_065069	R	Q	RQ	benign
rs6100056	NP_065069	R	K	RK	benign
rs6100072	NP_699191	S	N	SN	benign
rs6100663	NP_006233	R	K	RK	benign
rs6100927	NP_542119	G	S	GS	possibly damaging
rs6101367	NP_068750	G	R	GR	possibly damaging
rs6102365	XP_372866	P	L	PL	probably damaging
rs6102410	NP_115597	L	F	LF	benign
rs6103584	NP_116272	V	A	VA	benign
rs6103955	NP_006273	R	K	RK	benign
rs6104066	NP_002999	G	S	GS	benign
rs6104216	NP_852611	R	K	RK	benign
rs6104386	NP_542170	F	L	FL	benign
rs6104428	NP_004985	R	K	RK	benign
rs6105156	NP_061327	R	Q	RQ	possibly damaging

rs6105156	NP_872289	R	Q	RQ	possibly damaging
rs6105156	NP_057227	R	Q	RQ	possibly damaging
rs6107308	NP_036202	D	A	DA	benign
rs6107308	NP_647538	D	A	DA	benign
rs6107308	NP_647537	D	A	DA	benign
rs6107314	NP_036202	L	F	LF	benign
rs6107314	NP_647538	L	F	LF	benign
rs6107314	NP_647537	L	F	LF	benign
rs6107751	NP_689824	L	P	LP	probably damaging
rs6108299	NP_000924	S	F	SF	possibly damaging
rs6108299	NP_877949	S	F	SF	possibly damaging
rs6109963	NP_060184	G	S	GS	benign
rs6110025	NP_061327	R	K	RK	benign
rs6110025	NP_872289	R	K	RK	benign
rs6110025	NP_057227	R	K	RK	benign
rs6111264	NP_937863	E	K	EK	possibly damaging
rs6111951	NP_060622	G	R	GR	probably damaging
rs6112001	NP_116781	R	T	RT	possibly damaging
rs6112008	NP_116781	L	M	LM	benign
rs6112935	XP_046600	L	F	LF	benign
rs6112939	XP_046600	R	Q	RQ	benign
rs6114063	NP_037380	N	K	NK	probably damaging
rs6114068	NP_071927	K	N	KN	benign
rs6114069	NP_071927	S	I	SI	benign
rs6114486	NP_077301	P	L	PL	probably damaging
rs6115023	NP_055403	D	E	DE	benign
rs6115125	NP_002853	P	L	PL	probably damaging
rs6115242	NP_542789	E	Q	EQ	benign
rs6115249	NP_056470	P	L	PL	probably damaging
rs6115671	NP_079234	G	S	GS	benign
rs6115950	NP_036202	G	S	GS	possibly damaging
rs6115950	NP_647538	G	S	GS	possibly damaging
rs6115950	NP_647537	G	S	GS	possibly damaging
rs6117014	NP_877954	K	N	KN	benign
rs6117014	NP_115874	K	N	KN	benign
rs6117050	NP_689824	L	F	LF	benign
rs6118003	NP_060015	R	K	RK	benign
rs6118041	NP_620713	P	L	PL	probably damaging
rs6118603	NP_000924	G	S	GS	possibly damaging
rs6118603	NP_877949	G	S	GS	possibly damaging
rs6118865	NP_942093	L	F	LF	benign
rs6118866	NP_942093	P	L	PL	probably damaging
rs6119662	NP_057520	P	L	PL	probably damaging
rs6119663	NP_057520	P	L	PL	probably damaging
rs6119664	NP_057520	P	L	PL	probably damaging
rs6120180	NP_570913	L	F	LF	benign

rs6120181	NP_570913	P	L	PL	probably damaging
rs6120221	NP_149974	S	P	SP	benign
rs6120222	NP_149974	S	I	SI	benign
rs6120366	NP_116208	S	I	SI	possibly damaging
rs6120367	NP_116208	G	R	GR	possibly damaging
rs6120453	XP_371395	G	S	GS	benign
rs6120454	XP_371395	R	K	RK	benign
rs6120789	NP_955400	R	K	RK	benign
rs6120789	NP_056453	R	K	RK	benign
rs6120850	NP_060687	S	I	SI	possibly damaging
rs6121176	NP_818932	R	Q	RQ	benign
rs6121176	NP_036288	R	Q	RQ	benign
rs6121183	NP_056326	P	T	PT	probably damaging
rs6121233	XP_372864	L	S	LS	benign
rs6121577	NP_543023	P	L	PL	probably damaging
rs6121579	NP_543023	E	K	EK	benign
rs6121906	NP_002783	R	K	RK	probably damaging
rs6122203	NP_955391	A	V	AV	benign
rs6122203	NP_955392	A	V	AV	benign
rs6122203	NP_955393	A	V	AV	benign
rs6122203	NP_955394	A	V	AV	benign
rs6122203	NP_955395	A	V	AV	benign
rs6122203	NP_003279	A	V	AV	benign
rs6122246	NP_005864	Q	H	QH	benign
rs6122312	NP_031372	S	I	SI	possibly damaging
rs6122313	NP_031372	R	S	RS	benign
rs6122315	NP_031372	S	T	ST	benign
rs6122396	NP_060268	P	Q	PQ	possibly damaging
rs6122480	NP_036516	L	F	LF	benign
rs6122487	NP_036516	L	M	LM	benign
rs6122801	NP_004767	Y	C	YC	probably damaging
rs6124571	NP_056293	L	F	LF	benign
rs6124698	NP_003824	G	S	GS	possibly damaging
rs6124698	NP_085080	G	S	GS	possibly damaging
rs6124698	NP_085095	G	S	GS	possibly damaging
rs6124823	NP_073740	P	R	PR	probably damaging
rs6125056	NP_006525	P	L	PL	benign
rs6125056	NP_858045	P	L	PL	benign
rs6125068	NP_940998	S	N	SN	benign
rs6125068	NP_061325	S	N	SN	benign
rs6126121	NP_852107	P	L	PL	probably damaging
rs6126269	XP_030577	G	R	GR	possibly damaging
rs6126344	NP_065169	L	R	LR	benign
rs6126799	NP_775756	R	K	RK	benign
rs6127031	NP_003648	Q	H	QH	benign
rs6127140	NP_002614	E	Q	EQ	benign

rs6127231	NP_060901	D	N	DN	benign
rs6128079	NP_002582	P	L	PL	probably damaging
rs6128714	NP_055073	V	A	VA	benign
rs6128739	NP_068582	L	F	LF	benign
rs6128739	NP_817089	L	F	LF	benign
rs6128740	NP_068582	P	L	PL	probably damaging
rs6128740	NP_817089	P	L	PL	probably damaging
rs6129757	NP_003277	E	K	EK	benign
rs6129847	NP_115597	R	K	RK	benign
rs6130037	NP_056289	Y	C	YC	benign
rs6130063	NP_008981	S	I	SI	benign
rs6130063	NP_573400	S	I	SI	benign
rs6130514	NP_116272	S	N	SN	benign
rs6130805	NP_003824	P	L	PL	probably damaging
rs6130805	NP_085080	P	L	PL	probably damaging
rs6130805	NP_085095	P	L	PL	probably damaging
rs6130886	NP_742003	D	H	DH	benign
rs6130960	NP_542790	N	H	NH	benign
rs6130965	NP_872617	S	F	SF	benign
rs6130965	NP_006218	S	F	SF	benign
rs6130982	NP_071378	R	C	RC	possibly damaging
rs6131323	NP_055538	R	C	RC	benign
rs6131835	NP_078980	G	R	GR	possibly damaging
rs6132996	NP_002827	P	L	PL	benign
rs6132996	NP_543031	P	L	PL	possibly damaging
rs6133050	NP_036202	A	V	AV	benign
rs6133050	NP_647538	A	V	AV	benign
rs6133050	NP_647537	A	V	AV	benign
rs6133278	NP_001810	D	N	DN	benign
rs6133918	NP_740754	R	K	RK	benign
rs6134758	NP_060797	T	A	TA	benign
rs6135774	NP_078980	S	N	SN	benign
rs6135876	NP_064542	L	P	LP	possibly damaging
rs6136153	NP_004578	L	M	LM	benign
rs6136386	NP_006457	R	K	RK	benign
rs6136807	NP_065740	G	S	GS	benign
rs6137081	XP_046600	S	N	SN	benign
rs6137317	NP_036387	R	H	RH	benign
rs6137324	NP_036387	R	K	RK	benign
rs6137954	NP_543020	L	F	LF	benign
rs6137954	NP_570612	L	F	LF	benign
rs6138429	NP_003641	A	S	AS	benign
rs6138482	NP_955457	R	H	RH	benign
rs6138541	NP_001238	S	N	SN	benign
rs6139012	NP_055763	A	D	AD	possibly damaging
rs6139012	NP_955447	A	D	AD	possibly damaging

rs6139131	NP_112504	Q	H	QH	benign
rs6139131	NP_112505	Q	H	QH	benign
rs6139131	NP_006453	Q	H	QH	benign
rs6139131	NP_112506	Q	H	QH	benign
rs6139158	NP_036202	G	S	GS	possibly damaging
rs6139158	NP_647538	G	S	GS	possibly damaging
rs6139158	NP_647537	G	S	GS	possibly damaging
rs6139194	NP_443202	R	H	RH	benign
rs6139196	NP_443202	E	K	EK	benign
rs6139873	NP_001810	R	Q	RQ	possibly damaging
rs6139876	NP_057023	E	K	EK	benign
rs6140402	NP_997004	A	T	AT	benign
rs6140807	XP_297816	R	Q	RQ	benign
rs6141383	NP_149974	V	M	VM	benign
rs6141816	NP_787044	E	K	EK	benign
rs6141816	NP_787045	E	K	EK	benign
rs6141816	NP_787046	E	K	EK	benign
rs6141816	NP_008823	V	M	VM	benign
rs6141831	NP_695021	L	F	LF	benign
rs6142471	NP_543024	T	A	TA	benign
rs6142528	NP_818932	A	T	AT	benign
rs6142528	NP_036288	A	T	AT	benign
rs6142531	NP_818932	R	P	RP	possibly damaging
rs6142531	NP_036288	R	P	RP	possibly damaging
rs6142592	NP_542192	P	L	PL	probably damaging
rs6142638	NP_002648	P	L	PL	benign
rs6142775	NP_536721	T	P	TP	benign
rs6142884	NP_001785	K	R	KR	benign
rs6143021	NP_005551	H	R	HR	benign
rs6151411	NP_000478	P	L	PL	probably damaging
rs6151415	NP_000478	W	C	WC	probably damaging
rs6151422	NP_000478	F	V	FV	benign
rs6151427	NP_000478	N	S	NS	possibly damaging
rs6151428	NP_000478	R	H	RH	benign
rs6151509	NP_004321	S	T	ST	benign
rs6413413	NP_000659	T	S	TS	benign
rs6413419	NP_000764	V	I	VI	benign
rs6413438	NP_000760	P	L	PL	probably damaging
rs6413462	NP_001748	V	I	VI	benign
rs6413463	NP_000068	H	Q	HQ	probably damaging
rs6413464	NP_000068	A	S	AS	benign
rs6413474	NP_000753	K	R	KR	benign
rs6413478	NP_001946	V	I	VI	benign
rs6413481	NP_001954	G	R	GR	probably damaging
rs6413484	NP_000154	V	F	VF	benign
rs6413485	NP_005304	K	R	KR	benign

rs6413489	NP_000867	R	Q	RQ	benign
rs6413491	NP_000867	A	T	AT	benign
rs6413498	NP_002169	R	Q	RQ	benign
rs6413500	NP_000409	S	L	SL	possibly damaging
rs6413508	NP_002476	P	L	PL	benign
rs6413532	NP_055394	G	E	GE	possibly damaging
rs6413537	NP_001042	S	F	SF	possibly damaging
rs6414624	NP_714928	Y	H	YH	possibly damaging
rs6415788	NP_689842	Q	P	QP	benign
rs6416668	NP_001162	V	M	VM	benign
rs6420424	NP_877417	R	W	RW	benign
rs6421985	NP_612202	L	M	LM	benign
rs6422224	XP_496026	N	T	NT	benign
rs6425977	NP_005110	V	A	VA	benign
rs6426616	XP_372769	Q	R	QR	benign
rs6427128	NP_003806	K	T	KT	benign
rs6427128	NP_997077	K	T	KT	benign
rs6427128	NP_997078	K	T	KT	benign
rs6427128	NP_997079	K	T	KT	benign
rs6427128	NP_997080	K	T	KT	benign
rs6427128	NP_997074	K	T	KT	benign
rs6427235	XP_089281	S	P	SP	benign
rs6427384	NP_112571	I	V	IV	benign
rs6427504	NP_653300	D	G	DG	probably damaging
rs6428388	NP_060606	R	G	RG	probably damaging
rs6428538	XP_375746	I	M	IM	benign
rs6429745	NP_056933	R	Q	RQ	benign
rs6429757	NP_079034	G	R	GR	benign
rs6430896	XP_496601	N	S	NS	benign
rs6430897	XP_496601	D	E	DE	benign
rs6431625	NP_061966	V	A	VA	benign
rs6431634	XP_371603	V	A	VA	benign
rs6432225	NP_036476	V	A	VA	benign
rs6433295	XP_376154	Q	P	QP	probably damaging
rs6433296	XP_376154	R	P	RP	probably damaging
rs6433818	XP_034594	S	R	SR	possibly damaging
rs6434197	NP_872327	Y	C	YC	probably damaging
rs6435421	XP_371592	C	R	CR	possibly damaging
rs6436058	NP_065986	S	L	SL	benign
rs6436153	NP_061144	P	Q	PQ	possibly damaging
rs6436153	NP_878267	P	Q	PQ	possibly damaging
rs6436155	NP_078812	R	Q	RQ	benign
rs6436669	NP_112734	G	E	GE	benign
rs6438191	NP_009067	R	H	RH	benign
rs6438544	NP_203528	P	A	PA	probably damaging
rs6438869	XP_087386	M	T	MT	benign

rs6441977	NP_003956	V	M	VM	benign
rs6442089	NP_002366	V	I	VI	benign
rs6442827	NP_006605	I	V	IV	benign
rs6443930	NP_872343	G	A	GA	benign
rs6446261	NP_000572	A	T	AT	benign
rs6447368	NP_068746	P	L	PL	benign
rs6447804	XP_496692	A	V	AV	benign
rs6448389	NP_006415	G	D	GD	possibly damaging
rs6449160	XP_209656	H	N	HN	benign
rs6453022	XP_371755	P	Q	PQ	benign
rs6453373	NP_003655	V	E	VE	possibly damaging
rs6454127	NP_057655	N	H	NH	benign
rs6456834	XP_498064	C	G	CG	probably damaging
rs6456880	XP_212581	K	Q	KQ	benign
rs6457477	NP_115859	R	H	RH	possibly damaging
rs6458687	NP_000246	V	I	VI	benign
rs6459165	NP_065121	K	Q	KQ	benign
rs6459166	NP_001714	V	L	VL	benign
rs6460012	XP_498257	V	M	VM	benign
rs6460315	XP_377946	A	T	AT	benign
rs6460939	XP_371878	K	N	KN	benign
rs6461378	XP_376564	H	Y	HY	benign
rs6461515	NP_848654	K	E	KE	benign
rs6463529	XP_374396	L	P	LP	benign
rs6464006	XP_376576	N	T	NT	probably damaging
rs6464007	XP_376576	D	H	DH	probably damaging
rs6464008	XP_376576	R	C	RC	benign
rs6464011	XP_496854	E	G	EG	benign
rs6464201	NP_071370	P	S	PS	probably damaging
rs6464465	XP_376684	F	L	FL	benign
rs6464573	XP_069619	A	S	AS	benign
rs6464574	XP_069619	A	T	AT	benign
rs6464833	XP_371960	I	T	IT	benign
rs6465147	XP_498223	H	R	HR	benign
rs6465770	NP_060454	T	A	TA	benign
rs6466786	XP_069734	F	V	FV	benign
rs6467210	XP_294357	R	W	RW	possibly damaging
rs6468171	NP_115898	Q	R	QR	benign
rs6470147	NP_060494	F	I	FI	benign
rs6470187	NP_659400	I	V	IV	benign
rs6471482	NP_061971	W	C	WC	possibly damaging
rs6472285	NP_066280	I	T	IT	possibly damaging
rs6472812	NP_056179	G	R	GR	probably damaging
rs6474226	NP_064515	I	V	IV	benign
rs6474906	XP_498305	R	H	RH	probably damaging
rs6475273	NP_714918	S	P	SP	benign



rs6475322	NP_060395	N	H	NH	benign
rs6478078	NP_056219	Q	H	QH	benign
rs6478854	NP_057474	T	R	TR	benign
rs6478859	NP_116198	E	K	EK	benign
rs6479259	XP_071093	N	S	NS	benign
rs6479260	XP_071093	F	L	FL	benign
rs6482626	XP_370541	L	P	LP	possibly damaging
rs6483617	NP_660093	R	K	RK	benign
rs6483617	NP_892009	R	K	RK	benign
rs6483700	NP_005779	N	S	NS	benign
rs6484341	XP_084514	D	V	DV	possibly damaging
rs6485702	XP_035037	I	V	IV	benign
rs6485921	XP_372378	A	V	AV	benign
rs6486602	NP_919337	S	T	ST	benign
rs6486602	NP_001971	S	T	ST	benign
rs6487451	NP_006143	T	A	TA	benign
rs6489400	XP_292109	F	I	FI	benign
rs6489795	NP_002553	T	S	TS	benign
rs6490073	XP_027045	V	L	VL	benign
rs6490312	XP_497370	T	A	TA	possibly damaging
rs6492027	XP_497383	C	R	CR	probably damaging
rs6495228	NP_001027	E	G	EG	possibly damaging
rs6496589	NP_002657	A	P	AP	possibly damaging
rs6496598	NP_061140	A	P	AP	possibly damaging
rs6497759	NP_055309	A	T	AT	benign
rs6499548	NP_079410	E	D	ED	benign
rs6500304	NP_150229	Y	H	YH	benign
rs6500305	NP_660188	T	S	TS	benign
rs6500305	NP_660190	T	S	TS	benign
rs6500305	NP_660191	T	S	TS	benign
rs6500305	NP_150229	T	S	TS	benign
rs6500437	NP_689500	W	R	WR	probably damaging
rs6500633	NP_653206	Q	R	QR	benign
rs6501741	NP_835454	G	W	GW	benign
rs6502446	NP_114104	V	A	VA	benign
rs6502774	NP_758955	S	F	SF	benign
rs6502776	NP_758955	G	S	GS	benign
rs6503235	NP_659491	K	E	KE	benign
rs6503627	NP_002268	A	V	AV	possibly damaging
rs6503628	NP_002268	A	G	AG	benign
rs6503640	NP_000517	Y	C	YC	benign
rs6504191	NP_000325	G	S	GS	benign
rs6504255	XP_496237	I	V	IV	benign
rs6504459	NP_002728	I	V	IV	benign
rs6504649	NP_071450	T	R	TR	benign
rs6505140	NP_203747	V	A	VA	benign

rs6505727	XP_497573	F	I	FI	benign
rs6505776	NP_112493	N	T	NT	benign
rs6506448	XP_371108	T	S	TS	benign
rs6506948	NP_055754	S	L	SL	possibly damaging
rs6507992	NP_659497	V	I	VI	benign
rs6509138	NP_037493	I	L	IL	benign
rs6509358	NP_071425	D	N	DN	benign
rs6509544	NP_443729	H	Q	HQ	benign
rs6509544	NP_201586	H	Q	HQ	possibly damaging
rs6509593	NP_075562	G	D	GD	possibly damaging
rs6509862	NP_006856	L	R	LR	benign
rs6510057	NP_998763	P	A	PA	benign
rs6510758	XP_496281	A	V	AV	benign
rs6511280	XP_375590	P	A	PA	probably damaging
rs6511281	XP_375590	I	T	IT	possibly damaging
rs6511379	XP_065124	K	T	KT	benign
rs6511763	XP_371139	A	P	AP	benign
rs6511874	XP_064883	V	A	VA	benign
rs6512087	NP_473454	G	E	GE	probably damaging
rs6512265	NP_660299	P	S	PS	possibly damaging
rs6512577	NP_066363	M	I	MI	possibly damaging
rs6513956	XP_114158	S	G	SG	benign
rs6516618	NP_997354	K	E	KE	benign
rs6517105	NP_653260	H	R	HR	possibly damaging
rs6517549	NP_031367	N	D	ND	benign
rs6517869	NP_778146	S	G	SG	benign
rs6517870	NP_778146	V	I	VI	benign
rs6518289	NP_006022	V	A	VA	benign
rs6518291	NP_006022	I	V	IV	benign
rs6519993	NP_006062	L	P	LP	probably damaging
rs6520408	NP_005174	P	L	PL	probably damaging
rs6525447	NP_116192	V	L	VL	benign
rs6526155	NP_037496	A	V	AV	benign
rs6527569	XP_379699	H	R	HR	benign
rs6532068	XP_496710	T	I	TI	possibly damaging
rs6533514	XP_497976	Q	R	QR	benign
rs6533515	XP_497976	Q	R	QR	benign
rs6533616	NP_079420	N	D	ND	possibly damaging
rs6535411	NP_078948	D	N	DN	benign
rs6535883	XP_087500	M	T	MT	probably damaging
rs6537662	XP_496383	V	I	VI	benign
rs6537699	XP_497697	C	R	CR	benign
rs6537825	NP_148980	T	I	TI	benign
rs6537825	NP_056990	T	I	TI	benign
rs6540433	NP_001868	A	E	AE	benign
rs6540718	NP_057532	T	K	TK	benign

rs6542522	XP_496588	I	V	IV	benign
rs6544718	NP_071882	V	A	VA	benign
rs6544834	NP_060549	T	M	TM	benign
rs6552141	XP_291095	T	P	TP	possibly damaging
rs6552804	NP_078905	I	T	IT	benign
rs6553227	XP_208320	G	D	GD	possibly damaging
rs6553229	XP_208320	V	L	VL	benign
rs6553695	XP_497982	K	E	KE	benign
rs6556276	NP_443131	V	M	VM	benign
rs6557280	XP_371853	A	T	AT	possibly damaging
rs6558394	NP_874365	L	P	LP	probably damaging
rs6558394	NP_056171	L	P	LP	probably damaging
rs6558399	XP_372063	T	A	TA	benign
rs6558407	NP_958786	R	H	RH	benign
rs6558407	NP_958785	R	H	RH	benign
rs6558407	NP_958784	R	H	RH	benign
rs6558407	NP_958783	R	H	RH	benign
rs6558407	NP_958782	R	H	RH	benign
rs6558407	NP_958781	R	H	RH	benign
rs6558407	NP_958780	R	H	RH	benign
rs6558407	NP_000436	R	H	RH	benign
rs6560142	NP_996830	Q	R	QR	benign
rs6560142	NP_996829	Q	R	QR	benign
rs6560142	NP_066003	Q	R	QR	benign
rs6560142	NP_996828	Q	R	QR	benign
rs6560142	NP_996827	Q	R	QR	benign
rs6560142	NP_079247	Q	R	QR	benign
rs6564343	NP_207837	Q	H	QH	possibly damaging
rs6564343	NP_620481	Q	H	QH	probably damaging
rs6564838	NP_877417	E	G	EG	probably damaging
rs6564956	NP_660151	S	T	ST	benign
rs6569605	NP_000417	V	A	VA	benign
rs6570065	XP_371838	N	S	NS	benign
rs6571751	NP_065099	K	E	KE	benign
rs6573560	NP_758953	T	I	TI	benign
rs6575799	NP_003827	G	R	GR	possibly damaging
rs6578323	NP_065947	T	I	TI	possibly damaging
rs6578533	XP_061627	N	Y	NY	probably damaging
rs6578670	NP_569073	T	S	TS	benign
rs6578670	NP_067629	T	S	TS	benign
rs6579255	NP_690908	Q	R	QR	benign
rs6580012	NP_114062	K	E	KE	benign
rs6580012	NP_061734	K	E	KE	benign
rs6580126	XP_209695	R	L	RL	benign
rs6580870	NP_005547	R	H	RH	possibly damaging
rs6580873	NP_002272	R	L	RL	possibly damaging

rs6580904	NP_056932	T	A	TA	benign
rs6580942	NP_036423	D	A	DA	possibly damaging
rs6582584	XP_047770	A	G	AG	possibly damaging
rs6583272	XP_171032	Q	R	QR	benign
rs6583274	XP_171032	V	E	VE	possibly damaging
rs6583275	XP_171032	H	Y	HY	possibly damaging
rs6584066	NP_004079	G	R	GR	benign
rs6584356	NP_057196	R	L	RL	possibly damaging
rs6585847	XP_291697	T	P	TP	possibly damaging
rs6586145	NP_004181	F	I	FI	benign
rs6586179	NP_000226	G	R	GR	benign
rs6586239	NP_065690	A	G	AG	benign
rs6586250	NP_387510	R	Q	RQ	benign
rs6586566	XP_371227	R	G	RG	benign
rs6587220	NP_683723	A	V	AV	benign
rs6587220	NP_055779	A	V	AV	benign
rs6587624	NP_872384	V	L	VL	benign
rs6587625	NP_872384	D	G	DG	possibly damaging
rs6587648	XP_373868	S	G	SG	benign
rs6587649	XP_373868	N	D	ND	benign
rs6587650	XP_373868	M	T	MT	benign
rs6587651	XP_373868	A	D	AD	benign
rs6587652	XP_373868	N	K	NK	benign
rs6587653	XP_373868	P	L	PL	probably damaging
rs6588100	NP_065976	T	M	TM	benign
rs6590021	XP_166781	R	W	RW	possibly damaging
rs6590022	XP_166781	I	T	IT	benign
rs6590942	XP_374927	S	N	SN	benign
rs6591182	XP_170658	V	G	VG	benign
rs6591270	NP_000686	R	H	RH	possibly damaging
rs6591324	XP_166831	C	R	CR	benign
rs6591536	XP_166899	D	N	DN	probably damaging
rs6591561	NP_683876	M	V	MV	benign
rs6591569	XP_166871	F	L	FL	benign
rs6593795	NP_057445	M	V	MV	benign
rs6594681	NP_002378	R	K	RK	benign
rs6595440	NP_694955	L	V	LV	benign
rs6595908	NP_598377	G	S	GS	possibly damaging
rs6596474	NP_689898	A	S	AS	benign
rs6596474	NP_005838	A	S	AS	benign
rs6597293	NP_689913	G	R	GR	probably damaging
rs6597630	NP_065118	R	K	RK	benign
rs6597801	NP_071409	R	Q	RQ	benign
rs6598679	NP_079021	T	M	TM	benign
rs6599079	NP_005100	T	I	TI	benign
rs6599241	NP_006505	V	M	VM	possibly damaging

rs6599528	NP_777582	R	S	RS	benign
rs6599743	NP_997238	C	R	CR	benign
rs6599891	XP_496026	T	A	TA	benign
rs6599902	XP_496026	R	W	RW	probably damaging
rs6601158	XP_498029	T	M	TM	benign
rs6601158	XP_498031	T	M	TM	benign
rs6604961	XP_496343	P	L	PL	probably damaging
rs6604961	XP_496345	P	L	PL	probably damaging
rs6606009	XP_497051	M	T	MT	possibly damaging
rs6606566	NP_945352	V	A	VA	benign
rs6606582	NP_940987	P	L	PL	probably damaging
rs6607437	NP_055328	N	D	ND	benign
rs6608756	XP_092995	A	P	AP	benign
rs6609158	NP_005291	R	S	RS	benign
rs6609463	NP_004642	R	W	RW	probably damaging
rs6609702	NP_777622	S	P	SP	probably damaging
rs6614290	NP_957516	Q	H	QH	benign
rs6614344	XP_050478	S	T	ST	benign
rs6616421	NP_612446	R	S	RS	benign
rs6616890	NP_055311	D	N	DN	benign
rs6621017	NP_001930	S	N	SN	benign
rs6621549	NP_612446	R	S	RS	possibly damaging
rs6621640	XP_291334	R	P	RP	probably damaging
rs6622126	NP_078933	I	T	IT	benign
rs6622613	XP_497185	E	K	EK	possibly damaging
rs6624371	XP_373354	F	L	FL	benign
rs6624535	NP_061850	N	K	NK	benign
rs6624547	NP_031389	L	P	LP	possibly damaging
rs6624600	NP_997305	E	K	EK	possibly damaging
rs6625346	XP_373354	R	Q	RQ	benign
rs6625580	NP_001542	R	K	RK	benign
rs6625784	NP_620278	W	G	WG	probably damaging
rs6625784	NP_004597	W	G	WG	probably damaging
rs6627455	NP_005131	D	H	DH	benign
rs6628025	NP_004836	Q	H	QH	benign
rs6632130	NP_689844	L	V	LV	benign
rs6632427	NP_689845	C	R	CR	probably damaging
rs6635182	NP_061136	A	P	AP	benign
rs6635230	XP_066752	S	F	SF	benign
rs6637826	NP_001546	N	H	NH	benign
rs6637934	NP_919253	R	H	RH	benign
rs6638192	XP_298045	A	V	AV	benign
rs6641350	NP_005357	R	P	RP	possibly damaging
rs6642535	NP_835469	A	T	AT	benign
rs6643533	NP_003138	S	G	SG	benign
rs6643651	NP_005325	S	I	SI	possibly damaging

rs6643652	NP_005325	N	S	NS	benign
rs6643670	NP_006721	Q	H	QH	benign
rs6643791	NP_005384	E	D	ED	benign
rs6643803	NP_001657	L	V	LV	benign
rs6643804	NP_001657	K	E	KE	benign
rs6646500	NP_542199	S	F	SF	benign
rs6646500	NP_075386	S	F	SF	benign
rs6646501	NP_542199	L	F	LF	benign
rs6646501	NP_075386	L	F	LF	benign
rs6647813	XP_208438	V	A	VA	benign
rs6648942	XP_210042	T	K	TK	possibly damaging
rs6649271	NP_055068	K	E	KE	benign
rs6650119	NP_000076	I	V	IV	benign
rs6650202	NP_060893	R	G	RG	possibly damaging
rs6650971	NP_001438	M	I	MI	benign
rs6651635	XP_048235	V	I	VI	benign
rs6653745	NP_775970	D	A	DA	benign
rs6653909	XP_373341	A	S	AS	benign
rs6654212	XP_066457	K	N	KN	benign
rs6654993	XP_498396	T	I	TI	probably damaging
rs6654994	XP_498396	N	I	NI	probably damaging
rs6655782	NP_006594	N	K	NK	possibly damaging
rs6657127	NP_932340	S	P	SP	possibly damaging
rs6657239	NP_000341	R	H	RH	benign
rs6657480	XP_371257	M	T	MT	benign
rs6657616	XP_371237	D	N	DN	benign
rs6657997	NP_056372	S	I	SI	probably damaging
rs6658141	XP_372823	V	L	VL	benign
rs6658227	XP_372824	P	L	PL	probably damaging
rs6658256	XP_372824	S	L	SL	possibly damaging
rs6658335	NP_277025	G	R	GR	benign
rs6658335	NP_277022	G	R	GR	benign
rs6658371	NP_653299	N	K	NK	benign
rs6658555	NP_938141	R	Q	RQ	benign
rs6658555	NP_938142	R	Q	RQ	benign
rs6658555	NP_620057	R	Q	RQ	benign
rs6658555	NP_620056	R	Q	RQ	benign
rs6658555	NP_620055	R	Q	RQ	benign
rs6658555	NP_060214	R	Q	RQ	benign
rs6659176	NP_068804	G	A	GA	possibly damaging
rs6659222	NP_055685	A	T	AT	benign
rs6659520	NP_115612	E	K	EK	benign
rs6659553	NP_060209	V	M	VM	benign
rs6660068	NP_775909	Q	L	QL	benign
rs6660222	XP_060945	V	A	VA	benign
rs6660448	NP_009135	A	D	AD	benign

rs6661002	NP_004714	S	A	SA	benign
rs6661132	XP_208213	K	T	KT	benign
rs6661132	NP_000769	K	T	KT	benign
rs6661410	NP_005392	T	M	TM	benign
rs6661625	NP_057611	L	M	LM	benign
rs6661946	XP_375853	S	N	SN	benign
rs6662272	XP_032397	D	H	DH	possibly damaging
rs6662276	NP_689418	A	T	AT	benign
rs6662382	XP_060945	I	M	IM	benign
rs6662450	XP_373868	V	L	VL	benign
rs6662597	XP_060945	I	V	IV	benign
rs6662744	NP_002499	T	I	TI	benign
rs6663417	NP_008965	P	H	PH	probably damaging
rs6663523	XP_496394	D	Y	DY	probably damaging
rs6663799	NP_689711	A	S	AS	benign
rs6664276	XP_040527	R	S	RS	benign
rs6664332	XP_372822	S	N	SN	benign
rs6664593	XP_060537	Q	R	QR	benign
rs6664730	XP_375853	S	L	SL	possibly damaging
rs6665021	XP_375726	L	P	LP	possibly damaging
rs6665210	NP_003628	R	Q	RQ	benign
rs6665568	NP_000072	Q	H	QH	possibly damaging
rs6665583	XP_375688	L	P	LP	benign
rs6665583	XP_290949	L	P	LP	benign
rs6665926	NP_006358	G	C	GC	possibly damaging
rs6665933	NP_006358	S	I	SI	possibly damaging
rs6665936	NP_006358	G	C	GC	benign
rs6665937	NP_006358	D	Y	DY	possibly damaging
rs6665944	NP_006358	A	S	AS	benign
rs6665989	XP_375746	E	A	EA	benign
rs6666048	XP_372824	I	T	IT	benign
rs6666097	XP_373868	A	T	AT	benign
rs6666178	NP_899228	R	L	RL	possibly damaging
rs6666585	XP_291548	P	S	PS	possibly damaging
rs6666652	NP_000341	S	I	SI	benign
rs6667171	XP_060305	R	L	RL	probably damaging
rs6667260	NP_002212	S	A	SA	benign
rs6667718	NP_919424	S	N	SN	benign
rs6667720	XP_209234	R	W	RW	probably damaging
rs6668293	XP_497652	V	A	VA	benign
rs6668765	NP_067649	A	S	AS	benign
rs6668826	XP_043739	R	H	RH	benign
rs6668968	NP_536354	R	Q	RQ	benign
rs6669070	XP_496347	W	R	WR	probably damaging
rs6669367	NP_057532	V	A	VA	benign
rs6669585	XP_371354	T	M	TM	benign

rs6669627	XP_371227	R	P	RP	possibly damaging
rs6670599	XP_496357	R	Q	RQ	benign
rs6670759	NP_003680	V	M	VM	benign
rs6670984	NP_653299	S	P	SP	benign
rs6671088	XP_496357	G	E	GE	benign
rs6671297	XP_496446	R	P	RP	benign
rs6671324	XP_496394	E	Q	EQ	benign
rs6671335	XP_496394	A	P	AP	benign
rs6671551	XP_378185	S	N	SN	benign
rs6672356	NP_689699	R	W	RW	possibly damaging
rs6673154	XP_375746	E	K	EK	possibly damaging
rs6673384	XP_042500	K	M	KM	possibly damaging
rs6673641	NP_009098	P	S	PS	benign
rs6673767	XP_375688	P	L	PL	probably damaging
rs6673767	XP_290949	P	L	PL	probably damaging
rs6674407	XP_375685	R	W	RW	possibly damaging
rs6674599	NP_982284	P	R	PR	possibly damaging
rs6674773	NP_006463	R	Q	RQ	benign
rs6675215	NP_899228	C	R	CR	benign
rs6675281	NP_061132	L	F	LF	benign
rs6675526	NP_899228	R	K	RK	benign
rs6675529	NP_859070	A	T	AT	benign
rs6675747	NP_004485	A	T	AT	benign
rs6675871	XP_371352	S	N	SN	benign
rs6676290	NP_002624	V	I	VI	benign
rs6677543	NP_000855	I	L	IL	benign
rs6677787	NP_899632	A	T	AT	benign
rs6677787	NP_004886	A	T	AT	benign
rs6677924	NP_055227	H	D	HD	probably damaging
rs6678040	NP_612400	T	A	TA	benign
rs6678138	XP_060305	M	V	MV	benign
rs6678405	NP_113663	Q	E	QE	benign
rs6678540	NP_689585	M	T	MT	benign
rs6678923	XP_291607	E	D	ED	benign
rs6679056	XP_291548	E	G	EG	possibly damaging
rs6679078	NP_000121	K	R	KR	benign
rs6679197	XP_371227	T	M	TM	benign
rs6679793	NP_112571	H	Y	HY	benign
rs6680969	NP_543154	R	H	RH	benign
rs6681346	NP_031383	N	K	NK	benign
rs6681516	NP_060530	T	S	TS	benign
rs6681879	NP_000341	V	G	VG	probably damaging
rs6682039	XP_372778	Q	H	QH	possibly damaging
rs6682552	NP_689823	R	W	RW	probably damaging
rs6682823	XP_378185	R	Q	RQ	benign
rs6683047	XP_057040	A	T	AT	benign



rs6684514	NP_115699	V	M	VM	possibly damaging
rs6684619	XP_371227	D	N	DN	benign
rs6684974	NP_000853	G	S	GS	benign
rs6685323	NP_536354	H	Y	HY	benign
rs6685961	NP_057062	L	S	LS	benign
rs6686209	NP_937792	R	M	RM	benign
rs6688201	XP_086604	L	V	LV	benign
rs6688832	NP_004276	R	Q	RQ	benign
rs6689014	NP_848509	G	R	GR	probably damaging
rs6689281	XP_372838	D	G	DG	benign
rs6689850	NP_689823	V	A	VA	benign
rs6690497	NP_697021	E	D	ED	benign
rs6690497	NP_006057	E	D	ED	benign
rs6690992	NP_840059	T	M	TM	benign
rs6691117	NP_000564	I	V	IV	benign
rs6691117	NP_000642	V	I	VI	benign
rs6691220	NP_443171	V	M	VM	benign
rs6691379	NP_149033	A	T	AT	benign
rs6691379	NP_036222	A	T	AT	benign
rs6691547	NP_115640	E	K	EK	benign
rs6691840	NP_000822	S	A	SA	benign
rs6692219	NP_055625	R	T	RT	possibly damaging
rs6692357	XP_291439	A	V	AV	benign
rs6692357	XP_372826	V	A	VA	benign
rs6692949	XP_060945	K	N	KN	benign
rs6693235	XP_497702	K	R	KR	probably damaging
rs6693243	XP_497702	N	Y	NY	probably damaging
rs6693255	XP_371257	T	I	TI	benign
rs6693391	NP_078930	A	S	AS	benign
rs6693400	NP_078930	R	W	RW	possibly damaging
rs6693648	XP_498811	K	R	KR	benign
rs6693815	NP_078802	G	S	GS	benign
rs6693815	NP_573444	G	S	GS	benign
rs6693815	NP_620641	G	S	GS	benign
rs6694078	XP_040527	M	V	MV	benign
rs6695033	NP_733844	T	A	TA	benign
rs6695216	NP_775909	P	Q	PQ	probably damaging
rs6695302	XP_060580	V	M	VM	benign
rs6695357	XP_291439	R	W	RW	probably damaging
rs6695686	NP_001843	T	M	TM	benign
rs6695690	NP_078798	S	N	SN	benign
rs6695710	NP_060595	R	W	RW	possibly damaging
rs6695830	NP_057274	Q	H	QH	benign
rs6695966	NP_663320	E	G	EG	possibly damaging
rs6696162	NP_563578	T	I	TI	benign
rs6696162	NP_563579	T	I	TI	benign

rs6696162	NP_002829	T	I	TI	benign
rs6696455	XP_040527	W	R	WR	benign
rs6697153	XP_372778	E	V	EV	probably damaging
rs6697322	XP_496691	L	Q	LQ	probably damaging
rs6697472	NP_932340	A	T	AT	benign
rs6697521	XP_496354	S	A	SA	benign
rs6697793	XP_086604	R	C	RC	benign
rs6697812	XP_372824	V	F	VF	benign
rs6697938	NP_777283	Q	P	QP	benign
rs6697938	NP_036225	Q	P	QP	benign
rs6698023	NP_001928	V	I	VI	benign
rs6698109	NP_060143	R	H	RH	benign
rs6698159	NP_006393	P	L	PL	benign
rs6698998	NP_005415	R	C	RC	possibly damaging
rs6699881	XP_209234	W	R	WR	possibly damaging
rs6700245	NP_689585	R	Q	RQ	benign
rs6700677	NP_071751	G	R	GR	probably damaging
rs6700727	XP_375688	A	T	AT	benign
rs6700727	XP_290949	A	T	AT	benign
rs6700731	XP_375688	D	N	DN	benign
rs6700731	XP_290949	D	N	DN	benign
rs6702263	NP_073611	H	L	HL	probably damaging
rs6702407	NP_065156	P	L	PL	possibly damaging
rs6702407	NP_851607	P	L	PL	probably damaging
rs6702447	XP_291395	Q	H	QH	benign
rs6702693	NP_932340	L	V	LV	benign
rs6702823	NP_689822	S	L	SL	benign
rs6704203	XP_371263	K	Q	KQ	possibly damaging
rs6704321	NP_000528	A	P	AP	benign
rs6704505	NP_775804	K	E	KE	benign
rs6706460	NP_055297	L	V	LV	benign
rs6707568	NP_079137	P	L	PL	probably damaging
rs6707930	NP_062564	Q	K	QK	benign
rs6708120	XP_059482	H	R	HR	possibly damaging
rs6708527	NP_061720	R	H	RH	possibly damaging
rs6709000	NP_078859	C	G	CG	probably damaging
rs6709148	XP_092342	R	G	RG	possibly damaging
rs6709303	NP_056505	Q	P	QP	benign
rs6709619	NP_055963	Q	R	QR	benign
rs6710142	NP_078777	A	T	AT	benign
rs6710480	NP_775491	R	S	RS	benign
rs6710817	NP_056993	A	T	AT	benign
rs6711032	XP_372911	H	Q	HQ	benign
rs6711382	NP_004534	H	Y	HY	possibly damaging
rs6712645	NP_999626	L	P	LP	possibly damaging
rs6713137	NP_115895	F	L	FL	benign

rs6713162	NP_004534	S	P	SP	probably damaging
rs6714619	XP_210411	G	A	GA	benign
rs6715286	NP_115993	D	E	DE	benign
rs6715286	NP_690609	D	E	DE	benign
rs6715951	NP_849143	I	F	IF	possibly damaging
rs6716066	NP_689598	I	V	IV	benign
rs6716400	NP_078859	V	A	VA	possibly damaging
rs6716834	NP_004516	S	N	SN	benign
rs6716965	XP_497863	E	K	EK	possibly damaging
rs6717362	NP_002072	M	T	MT	benign
rs6718487	XP_497899	A	D	AD	possibly damaging
rs6719500	NP_061720	K	E	KE	benign
rs6720173	NP_071881	Q	E	QE	benign
rs6721345	XP_059482	R	Q	RQ	benign
rs6722682	NP_003194	T	A	TA	benign
rs6722745	XP_497863	M	T	MT	benign
rs6723697	XP_056455	R	Q	RQ	benign
rs6723823	NP_006046	V	E	VE	possibly damaging
rs6724198	NP_004248	A	T	AT	benign
rs6724344	XP_376154	P	L	PL	possibly damaging
rs6724579	XP_372941	F	V	FV	possibly damaging
rs6725443	NP_149055	S	G	SG	benign
rs6726491	NP_002971	D	N	DN	benign
rs6727226	NP_055963	V	M	VM	benign
rs6728999	NP_002017	R	Q	RQ	benign
rs6728999	NP_997639	R	Q	RQ	benign
rs6728999	NP_997640	R	Q	RQ	benign
rs6728999	NP_997641	R	Q	RQ	benign
rs6728999	NP_997643	R	Q	RQ	benign
rs6728999	NP_997647	R	Q	RQ	benign
rs6729801	NP_061854	D	N	DN	benign
rs6730396	NP_954702	C	R	CR	probably damaging
rs6731704	NP_659429	I	M	IM	benign
rs6731822	NP_689728	V	I	VI	benign
rs6733578	XP_496603	Y	C	YC	probably damaging
rs6733774	XP_291019	E	K	EK	benign
rs6733841	NP_079352	C	G	CG	probably damaging
rs6733871	NP_849161	S	N	SN	benign
rs6734114	NP_054859	I	F	IF	benign
rs6735208	NP_004534	N	K	NK	benign
rs6735666	NP_004062	N	D	ND	benign
rs6735958	NP_073153	G	D	GD	possibly damaging
rs6736017	NP_000858	M	V	MV	benign
rs6736609	NP_620482	V	I	VI	benign
rs6736670	NP_003639	F	L	FL	possibly damaging
rs6736670	NP_690618	F	L	FL	possibly damaging

rs6736913	NP_061936	E	K	EK	benign
rs6737124	NP_065960	A	V	AV	benign
rs6737478	XP_371476	R	G	RG	possibly damaging
rs6737993	XP_497905	S	G	SG	benign
rs6738031	NP_002967	I	M	IM	benign
rs6739001	NP_000070	D	V	DV	benign
rs6740879	NP_659415	R	K	RK	benign
rs6741084	NP_006217	W	C	WC	probably damaging
rs6741626	XP_496597	R	G	RG	probably damaging
rs6741892	NP_620156	N	Y	NY	benign
rs6742404	NP_036232	I	V	IV	benign
rs6742946	NP_003194	Q	E	QE	benign
rs6743376	NP_775184	A	D	AD	benign
rs6743719	XP_371494	A	V	AV	benign
rs6744055	XP_210411	A	V	AV	benign
rs6744817	NP_055483	V	M	VM	benign
rs6744817	NP_683701	V	M	VM	benign
rs6744817	NP_149081	V	M	VM	benign
rs6744926	NP_079492	I	V	IV	benign
rs6745497	NP_872342	S	N	SN	benign
rs6746030	NP_002968	R	W	RW	probably damaging
rs6748148	NP_714923	Q	H	QH	benign
rs6748672	NP_115990	L	R	LR	benign
rs6748684	NP_057431	Y	H	YH	possibly damaging
rs6749066	NP_114034	E	G	EG	possibly damaging
rs6749066	NP_002365	E	G	EG	possibly damaging
rs6750289	NP_006830	S	P	SP	probably damaging
rs6751083	NP_057047	Y	N	YN	probably damaging
rs6751706	NP_078859	L	I	LI	benign
rs6751827	XP_496601	R	H	RH	possibly damaging
rs6752026	NP_000375	P	S	PS	possibly damaging
rs6753459	NP_115697	I	T	IT	benign
rs6753929	XP_371486	V	L	VL	benign
rs6754398	NP_076990	R	M	RM	benign
rs6755527	XP_498895	S	P	SP	benign
rs6755571	NP_009051	P	T	PT	benign
rs6756629	NP_071881	R	C	RC	probably damaging
rs6757519	NP_997404	E	Q	EQ	benign
rs6757705	NP_997404	S	C	SC	possibly damaging
rs6757850	NP_150375	G	A	GA	benign
rs6758025	NP_598407	T	M	TM	benign
rs6758025	NP_057737	T	M	TM	benign
rs6758480	NP_006627	E	K	EK	benign
rs6758492	NP_006627	A	T	AT	benign
rs6758815	XP_291015	L	I	LI	benign
rs6759356	NP_055383	Q	H	QH	benign

rs6759854	NP_110395	S	T	ST	benign
rs6759892	NP_001063	S	A	SA	benign
rs6760593	NP_002967	A	V	AV	benign
rs6760811	NP_997195	I	N	IN	benign
rs6760929	NP_997195	F	C	FC	probably damaging
rs6761276	NP_775184	I	T	IT	benign
rs6761379	NP_001866	T	A	TA	benign
rs6761637	NP_006761	F	S	FS	benign
rs6761641	NP_055963	F	C	FC	benign
rs6761729	XP_372941	P	A	PA	possibly damaging
rs6763816	NP_003801	V	I	VI	benign
rs6764043	XP_372991	M	V	MV	benign
rs6764714	NP_714919	Q	E	QE	benign
rs6765537	NP_115513	I	V	IV	benign
rs6766212	NP_002213	S	I	SI	probably damaging
rs6766410	NP_570126	N	K	NK	possibly damaging
rs6767237	NP_115707	K	E	KE	benign
rs6767658	XP_496652	T	A	TA	benign
rs6768523	XP_210562	T	A	TA	benign
rs6770105	XP_291062	V	G	VG	possibly damaging
rs6770319	NP_071432	L	V	LV	benign
rs6771386	NP_001780	R	W	RW	benign
rs6772054	NP_006061	T	P	TP	benign
rs6772467	NP_114119	G	R	GR	possibly damaging
rs6773138	NP_078904	K	R	KR	benign
rs6774192	NP_077817	N	D	ND	benign
rs6776150	XP_497929	P	L	PL	probably damaging
rs6776576	NP_115545	V	L	VL	benign
rs6777426	NP_066278	T	S	TS	benign
rs6777766	NP_065941	R	T	RT	possibly damaging
rs6777976	NP_612390	R	C	RC	probably damaging
rs6778728	NP_065851	T	S	TS	benign
rs6779254	NP_009003	I	T	IT	benign
rs6779520	NP_001287	L	V	LV	benign
rs6779903	NP_002709	A	S	AS	benign
rs6780013	NP_056281	A	T	AT	benign
rs6780543	NP_113646	T	A	TA	benign
rs6780995	NP_060033	M	T	MT	benign
rs6781558	XP_293581	R	Q	RQ	benign
rs6781844	XP_210562	Q	K	QK	benign
rs6782766	XP_376254	G	E	GE	possibly damaging
rs6782980	NP_005668	S	G	SG	benign
rs6782980	NP_536799	S	G	SG	benign
rs6782980	NP_536800	S	G	SG	benign
rs6782980	NP_536802	S	G	SG	benign
rs6784095	NP_065868	E	D	ED	benign

rs6784362	NP_778226	I	F	IF	benign
rs6784389	NP_778226	N	S	NS	benign
rs6785067	NP_055190	G	S	GS	benign
rs6785339	NP_612470	P	Q	PQ	benign
rs6785620	NP_909119	T	S	TS	benign
rs6785620	NP_057537	T	S	TS	benign
rs6786354	XP_376254	V	M	VM	benign
rs6787209	NP_006539	T	P	TP	possibly damaging
rs6787281	NP_036562	Q	P	QP	possibly damaging
rs6787592	NP_006539	T	P	TP	possibly damaging
rs6787633	NP_891550	D	E	DE	benign
rs6787916	NP_995325	E	D	ED	benign
rs6788319	NP_937795	I	S	IS	benign
rs6788448	NP_115655	I	M	IM	benign
rs6789754	NP_872343	R	H	RH	benign
rs6790129	NP_115513	L	V	LV	benign
rs6790173	NP_689830	E	K	EK	benign
rs6790768	NP_997190	R	G	RG	possibly damaging
rs6790837	XP_087386	F	S	FS	possibly damaging
rs6791037	NP_066278	S	G	SG	benign
rs6791924	NP_932173	R	C	RC	possibly damaging
rs6791924	NP_000326	R	C	RC	possibly damaging
rs6795271	NP_079199	A	V	AV	benign
rs6795497	NP_001175	A	S	AS	benign
rs6795530	NP_078789	D	E	DE	benign
rs6795815	NP_872434	P	L	PL	benign
rs6795970	NP_006505	A	V	AV	benign
rs6800728	NP_056535	D	V	DV	benign
rs6800762	NP_055594	T	S	TS	benign
rs6802937	NP_996898	S	P	SP	benign
rs6803501	NP_006398	L	F	LF	benign
rs6804162	NP_005450	M	V	MV	benign
rs6804746	NP_000657	R	C	RC	probably damaging
rs6804951	NP_055893	T	A	TA	benign
rs6805248	NP_919269	Q	R	QR	benign
rs6805421	NP_689606	N	S	NS	benign
rs6806770	NP_997370	T	I	TI	benign
rs6807273	XP_373001	T	I	TI	benign
rs6807362	NP_570126	G	A	GA	benign
rs6807963	NP_005326	A	T	AT	benign
rs6808056	NP_055276	F	S	FS	benign
rs6808605	NP_004523	G	E	GE	benign
rs6808605	NP_612154	G	E	GE	benign
rs6809436	NP_065705	K	Q	KQ	benign
rs6810039	XP_171054	E	D	ED	benign
rs6810394	NP_733828	E	K	EK	benign

rs6811370	NP_938022	A	V	AV	benign
rs6811423	NP_775931	Q	R	QR	benign
rs6811863	NP_006598	P	R	PR	probably damaging
rs6812252	NP_758454	R	W	RW	probably damaging
rs6813092	NP_002083	P	S	PS	benign
rs6813102	NP_996672	P	L	PL	benign
rs6814713	XP_291095	R	H	RH	benign
rs6815155	XP_371717	D	N	DN	benign
rs6815360	XP_371717	V	L	VL	benign
rs6816604	NP_065828	S	P	SP	benign
rs6817280	NP_598375	P	S	PS	probably damaging
rs6818265	XP_496727	L	V	LV	benign
rs6818498	XP_496692	T	K	TK	benign
rs6820230	NP_001001290	A	T	AT	benign
rs6824133	NP_060109	S	N	SN	benign
rs6825562	XP_039169	V	A	VA	benign
rs6825812	NP_006443	K	N	KN	possibly damaging
rs6826961	NP_689504	N	K	NK	benign
rs6827370	NP_689988	Q	R	QR	benign
rs6828134	NP_036356	Q	E	QE	benign
rs6828191	NP_444267	H	D	HD	benign
rs6829380	NP_000018	S	T	ST	benign
rs6830030	XP_497963	L	S	LS	possibly damaging
rs6830772	XP_371701	Q	R	QR	possibly damaging
rs6831040	NP_001192	F	L	FL	benign
rs6831280	NP_000194	A	T	AT	benign
rs6831595	NP_598375	E	V	EV	benign
rs6832638	NP_002080	M	L	ML	benign
rs6832675	NP_002083	P	R	PR	probably damaging
rs6834237	NP_443096	T	M	TM	possibly damaging
rs6834385	XP_496692	Y	H	YH	benign
rs6835769	NP_996672	A	V	AV	benign
rs6835933	NP_115689	K	E	KE	benign
rs6836335	NP_036577	R	G	RG	possibly damaging
rs6836994	NP_009124	L	M	LM	benign
rs6838959	NP_065926	S	Y	SY	benign
rs6838959	NP_116252	S	Y	SY	benign
rs6838959	NP_996672	S	Y	SY	benign
rs6840615	NP_004325	I	V	IV	benign
rs6840796	XP_094074	Y	N	YN	benign
rs6843141	NP_060098	M	V	MV	benign
rs6843325	NP_065186	F	L	FL	benign
rs6843900	NP_444267	I	R	IR	benign
rs6844109	NP_055637	P	L	PL	probably damaging
rs6844611	XP_496692	K	E	KE	benign
rs6845630	NP_061859	R	C	RC	probably damaging

rs6846627	NP_004468	V	I	VI	benign
rs6847454	XP_293656	Q	L	QL	benign
rs6848030	NP_065926	I	V	IV	benign
rs6848030	NP_116252	I	V	IV	benign
rs6848030	NP_996672	I	V	IV	benign
rs6848868	XP_371706	I	T	IT	benign
rs6852908	NP_060772	D	E	DE	benign
rs6855526	XP_376334	M	I	MI	benign
rs6855813	NP_955352	N	S	NS	benign
rs6855837	NP_004889	L	I	LI	benign
rs6856967	NP_004555	A	V	AV	benign
rs6858328	XP_052620	R	C	RC	probably damaging
rs6858658	NP_006230	M	L	ML	benign
rs6858712	NP_060109	S	L	SL	benign
rs6858913	NP_113683	P	L	PL	benign
rs6858913	NP_113684	P	L	PL	benign
rs6858913	NP_061728	P	L	PL	benign
rs6859235	XP_047995	I	T	IT	possibly damaging
rs6859950	NP_075561	I	T	IT	benign
rs6860507	XP_371777	R	G	RG	benign
rs6860508	NP_065777	P	S	PS	possibly damaging
rs6860590	NP_115268	F	Y	FY	benign
rs6860590	NP_061747	F	Y	FY	benign
rs6860609	NP_115268	V	A	VA	benign
rs6860609	NP_061747	V	A	VA	benign
rs6861622	NP_057065	T	S	TS	benign
rs6861622	NP_741960	T	S	TS	benign
rs6862252	XP_114432	T	N	TN	benign
rs6862925	XP_047995	N	S	NS	benign
rs6863012	NP_065777	K	R	KR	benign
rs6864342	NP_001875	N	S	NS	benign
rs6865472	NP_057688	T	A	TA	benign
rs6865950	NP_056280	P	S	PS	benign
rs6867105	NP_005451	E	G	EG	benign
rs6867221	NP_872400	Y	C	YC	benign
rs6867419	NP_115956	E	K	EK	benign
rs6867460	NP_115270	G	S	GS	possibly damaging
rs6867460	NP_061748	G	S	GS	possibly damaging
rs6867856	NP_942123	A	P	AP	benign
rs6870069	XP_498018	L	P	LP	possibly damaging
rs6870170	NP_036466	E	D	ED	benign
rs6872614	NP_001438	Y	H	YH	benign
rs6872851	NP_940968	S	T	ST	benign
rs6873421	NP_003053	V	I	VI	benign
rs6873763	NP_114062	I	M	IM	benign
rs6873763	NP_061734	I	M	IM	benign



rs6874468	NP_003109	P	S	PS	benign
rs6874630	NP_078853	A	V	AV	benign
rs6875787	NP_064612	T	S	TS	benign
rs6875902	NP_078853	A	S	AS	benign
rs6876207	NP_114399	S	C	SC	benign
rs6876792	NP_940969	R	C	RC	possibly damaging
rs6877058	NP_061721	A	S	AS	benign
rs6877058	NP_114088	A	S	AS	benign
rs6877337	NP_473368	A	E	AE	possibly damaging
rs6878145	NP_114398	Q	R	QR	benign
rs6878145	NP_061738	Q	R	QR	benign
rs6878669	NP_689761	S	P	SP	benign
rs6879091	XP_498030	F	L	FL	benign
rs6879322	NP_079434	H	Q	HQ	possibly damaging
rs6880234	NP_114040	A	G	AG	possibly damaging
rs6880234	NP_061733	A	G	AG	possibly damaging
rs6880739	XP_496785	Y	F	YF	benign
rs6881677	NP_061734	S	N	SN	benign
rs6881677	NP_114062	S	N	SN	possibly damaging
rs6882138	NP_114443	P	L	PL	benign
rs6882138	NP_061741	P	L	PL	possibly damaging
rs6883021	NP_631938	L	P	LP	possibly damaging
rs6883562	XP_376372	Q	H	QH	benign
rs6884652	NP_075561	I	V	IV	benign
rs6884950	XP_380171	P	T	PT	benign
rs6884959	XP_371778	T	A	TA	benign
rs6886336	NP_060899	M	V	MV	benign
rs6887708	NP_689838	T	I	TI	possibly damaging
rs6888275	XP_498012	V	I	VI	benign
rs6888348	NP_004159	F	Y	FY	benign
rs6889154	NP_114062	P	Q	PQ	probably damaging
rs6889154	NP_061734	P	Q	PQ	probably damaging
rs6890689	NP_006781	Q	K	QK	benign
rs6891442	NP_115271	S	A	SA	benign
rs6891442	NP_061749	S	A	SA	benign
rs6891496	NP_061934	F	S	FS	benign
rs6892335	NP_001438	F	S	FS	benign
rs6892971	NP_113655	S	L	SL	possibly damaging
rs6893297	NP_055548	A	E	AE	benign
rs6895344	XP_293923	I	T	IT	benign
rs6895902	NP_055572	S	N	SN	benign
rs6896011	NP_000056	K	E	KE	benign
rs6896558	NP_001983	S	R	SR	possibly damaging
rs6896808	NP_942568	R	C	RC	possibly damaging
rs6896808	NP_055858	R	C	RC	possibly damaging
rs6897179	NP_689616	H	N	HN	benign

rs6897179	NP_877950	H	N	HN	benign
rs6897513	NP_079143	N	H	NH	possibly damaging
rs6897513	NP_653323	N	H	NH	possibly damaging
rs6897932	NP_002176	T	I	TI	possibly damaging
rs6898012	NP_002388	N	D	ND	possibly damaging
rs6898087	XP_498030	E	D	ED	benign
rs6900094	NP_002812	G	D	GD	possibly damaging
rs6900094	NP_690622	G	D	GD	possibly damaging
rs6900094	NP_690621	G	D	GD	possibly damaging
rs6900094	NP_690620	G	D	GD	possibly damaging
rs6900094	NP_690619	G	D	GD	possibly damaging
rs6901992	NP_258261	T	I	TI	benign
rs6902389	XP_498052	M	T	MT	benign
rs6902392	XP_498052	E	K	EK	benign
rs6902566	NP_005290	R	H	RH	benign
rs6903584	NP_079494	L	I	LI	benign
rs6905054	NP_056070	E	D	ED	benign
rs6905231	NP_003278	R	K	RK	benign
rs6905654	NP_005115	P	L	PL	probably damaging
rs6906499	NP_005115	N	K	NK	benign
rs6906577	XP_498150	N	D	ND	benign
rs6907125	NP_722581	Q	R	QR	benign
rs6908862	XP_498152	P	L	PL	probably damaging
rs6909298	NP_115570	G	S	GS	benign
rs6909714	NP_001714	H	Y	HY	benign
rs6910062	XP_293984	A	T	AT	benign
rs6910140	NP_001842	M	V	MV	benign
rs6910140	NP_511040	M	V	MV	probably damaging
rs6910390	NP_061978	T	I	TI	benign
rs6910541	XP_048070	V	I	VI	benign
rs6911096	NP_149062	S	T	ST	benign
rs6911096	NP_892006	T	S	TS	benign
rs6911245	NP_277037	T	A	TA	benign
rs6911245	NP_060885	T	A	TA	benign
rs6911245	NP_277036	T	A	TA	benign
rs6911720	NP_612466	T	A	TA	benign
rs6911885	NP_115507	E	K	EK	benign
rs6912568	NP_002215	Y	S	YS	probably damaging
rs6913689	NP_116183	S	T	ST	benign
rs6913689	NP_079533	S	T	ST	benign
rs6914331	XP_498108	H	Y	HY	possibly damaging
rs6915800	NP_116183	R	C	RC	probably damaging
rs6915800	NP_079533	R	C	RC	probably damaging
rs6917033	NP_056070	A	T	AT	benign
rs6918004	NP_006819	E	K	EK	benign
rs6919726	NP_060240	V	M	VM	benign

rs6919807	NP_056160	R	H	RH	benign
rs6919947	NP_861447	A	S	AS	benign
rs6920105	NP_000583	E	D	ED	benign
rs6920105	NP_001002029	E	D	ED	benign
rs6920695	NP_061978	K	Q	KQ	benign
rs6921269	NP_000358	Q	H	QH	benign
rs6922302	NP_665916	A	P	AP	benign
rs6922986	NP_874360	Q	H	QH	possibly damaging
rs6923492	NP_000829	P	S	PS	benign
rs6923761	NP_002053	G	S	GS	benign
rs6924078	XP_371797	I	V	IV	benign
rs6924628	NP_001494	G	S	GS	possibly damaging
rs6925151	NP_631904	R	H	RH	benign
rs6925344	NP_059117	S	G	SG	possibly damaging
rs6926101	NP_439896	V	I	VI	benign
rs6926224	XP_373419	H	Y	HY	possibly damaging
rs6926570	NP_067547	I	V	IV	benign
rs6926628	NP_006111	G	A	GA	possibly damaging
rs6926723	XP_373419	G	R	GR	benign
rs6926857	NP_612200	T	A	TA	benign
rs6926944	XP_496798	H	R	HR	possibly damaging
rs6926980	XP_166451	V	M	VM	benign
rs6927567	XP_496824	R	H	RH	benign
rs6927569	XP_168053	I	T	IT	benign
rs6927685	NP_631904	V	G	VG	possibly damaging
rs6929069	NP_004406	R	Q	RQ	benign
rs6929137	NP_079335	V	I	VI	benign
rs6929334	XP_498109	P	L	PL	probably damaging
rs6929350	XP_498109	R	W	RW	possibly damaging
rs6930033	NP_110503	L	W	LW	benign
rs6930932	NP_056060	A	D	AD	benign
rs6933573	NP_005065	S	N	SN	benign
rs6934360	NP_060379	R	H	RH	benign
rs6934505	NP_932347	R	Q	RQ	benign
rs6934603	NP_940970	F	L	FL	benign
rs6934613	NP_002627	T	S	TS	benign
rs6934613	NP_077084	T	S	TS	benign
rs6935293	NP_001362	N	S	NS	benign
rs6936639	NP_114155	L	P	LP	possibly damaging
rs6938102	XP_498140	N	S	NS	benign
rs6938396	XP_376464	V	L	VL	benign
rs6938667	NP_872358	V	M	VM	benign
rs6938938	NP_008989	V	M	VM	benign
rs6939591	XP_291170	T	S	TS	benign
rs6940018	NP_055554	S	C	SC	benign
rs6940875	NP_060121	Q	P	QP	benign

rs6941356	XP_048070	N	S	NS	benign
rs6941583	NP_006493	M	L	ML	benign
rs6941704	NP_115859	R	H	RH	possibly damaging
rs6942245	NP_008929	A	V	AV	benign
rs6942697	XP_496854	P	L	PL	probably damaging
rs6942882	XP_496859	I	V	IV	benign
rs6943717	NP_003218	S	R	SR	benign
rs6943851	NP_037532	A	S	AS	benign
rs6943851	NP_055189	A	S	AS	benign
rs6945306	NP_113602	Q	H	QH	possibly damaging
rs6945306	NP_116562	Q	H	QH	possibly damaging
rs6945354	XP_376720	D	A	DA	probably damaging
rs6946698	NP_000080	D	N	DN	benign
rs6946812	XP_168583	D	N	DN	benign
rs6947097	NP_006083	A	V	AV	benign
rs6947660	NP_064577	K	E	KE	benign
rs6947833	NP_000594	C	S	CS	probably damaging
rs6948380	NP_543147	S	P	SP	benign
rs6948907	NP_116570	S	R	SR	benign
rs6948907	NP_116571	S	R	SR	benign
rs6948907	NP_116572	S	R	SR	benign
rs6948907	NP_127461	S	R	SR	benign
rs6948907	NP_116569	S	R	SR	benign
rs6949082	NP_036401	A	S	AS	benign
rs6949654	XP_374625	H	R	HR	benign
rs6949738	XP_376680	P	H	PH	probably damaging
rs6950119	XP_376680	R	S	RS	benign
rs6950836	XP_379881	S	F	SF	possibly damaging
rs6951123	XP_379488	R	W	RW	possibly damaging
rs6951159	NP_067053	T	A	TA	benign
rs6951159	NP_733751	T	A	TA	benign
rs6951485	XP_373210	S	N	SN	benign
rs6952195	XP_295195	E	D	ED	benign
rs6952324	NP_619713	E	D	ED	benign
rs6952324	NP_001698	E	D	ED	benign
rs6953000	NP_689772	V	M	VM	benign
rs6953943	XP_054313	S	G	SG	benign
rs6954345	NP_000296	S	C	SC	benign
rs6955556	XP_371954	I	T	IT	benign
rs6955671	NP_683682	G	R	GR	possibly damaging
rs6955671	NP_110425	R	G	RG	possibly damaging
rs6956198	XP_498257	S	P	SP	benign
rs6956292	XP_294370	L	I	LI	possibly damaging
rs6956616	NP_073587	D	V	DV	probably damaging
rs6956789	NP_853559	T	A	TA	benign
rs6957339	NP_060454	V	L	VL	benign

rs6957510	NP_853559	R	Q	RQ	benign
rs6957669	XP_380044	G	E	GE	possibly damaging
rs6957768	NP_071903	T	A	TA	benign
rs6958498	NP_005001	P	A	PA	probably damaging
rs6960270	NP_660335	R	C	RC	probably damaging
rs6960328	NP_060124	I	S	IS	possibly damaging
rs6960867	NP_005742	N	S	NS	possibly damaging
rs6960867	NP_671714	N	S	NS	possibly damaging
rs6960867	NP_671700	N	S	NS	possibly damaging
rs6960868	XP_168578	A	V	AV	benign
rs6961012	XP_376576	S	T	ST	benign
rs6961412	NP_061167	I	V	IV	benign
rs6961822	XP_069734	Y	H	YH	benign
rs6962156	XP_069734	G	S	GS	benign
rs6962756	NP_563616	P	L	PL	benign
rs6962993	NP_857597	N	D	ND	benign
rs6963781	NP_857597	M	V	MV	benign
rs6964029	NP_002905	V	I	VI	benign
rs6964029	NP_852136	V	I	VI	benign
rs6964535	NP_064529	K	R	KR	benign
rs6964587	NP_671695	M	I	MI	benign
rs6964587	NP_005742	M	I	MI	possibly damaging
rs6964587	NP_671714	M	I	MI	possibly damaging
rs6964587	NP_671700	M	I	MI	possibly damaging
rs6965052	XP_088140	D	V	DV	probably damaging
rs6965332	NP_997219	T	A	TA	benign
rs6965694	XP_496870	G	R	GR	probably damaging
rs6967117	NP_005223	V	M	VM	benign
rs6967330	NP_689963	C	Y	CY	benign
rs6967385	XP_371878	Q	K	QK	benign
rs6968037	XP_294634	D	V	DV	benign
rs6968293	XP_498195	Q	P	QP	benign
rs6969304	XP_054313	C	S	CS	benign
rs6969691	NP_060124	I	T	IT	benign
rs6970210	NP_006765	N	S	NS	benign
rs6970227	XP_376576	P	S	PS	possibly damaging
rs6970350	NP_060454	E	K	EK	benign
rs6970605	NP_006765	R	H	RH	possibly damaging
rs6970768	XP_373219	K	R	KR	benign
rs6970916	NP_000457	S	R	SR	possibly damaging
rs6971091	NP_115988	E	K	EK	benign
rs6972013	XP_294634	D	E	DE	benign
rs6972158	NP_997055	Q	R	QR	benign
rs6972461	XP_291247	I	T	IT	benign
rs6975981	NP_009119	S	N	SN	benign
rs6976756	NP_002794	R	G	RG	probably damaging

rs6976847	NP_002132	T	P	TP	possibly damaging
rs6977072	NP_006294	P	A	PA	benign
rs6979487	NP_065943	A	T	AT	benign
rs6980124	NP_835226	L	P	LP	probably damaging
rs6980476	NP_057117	N	K	NK	benign
rs6980542	XP_114618	A	T	AT	benign
rs6980553	NP_006274	I	T	IT	benign
rs6980829	NP_003808	L	P	LP	possibly damaging
rs6982284	NP_068547	A	V	AV	benign
rs6982874	XP_372063	R	H	RH	probably damaging
rs6985081	NP_115754	D	E	DE	benign
rs6985234	NP_958786	V	A	VA	benign
rs6985234	NP_958785	V	A	VA	benign
rs6985234	NP_958784	V	A	VA	benign
rs6985234	NP_958783	V	A	VA	benign
rs6985234	NP_958782	V	A	VA	benign
rs6985234	NP_958781	V	A	VA	benign
rs6985234	NP_958780	V	A	VA	benign
rs6985234	NP_000436	V	A	VA	benign
rs6985914	XP_114618	P	H	PH	possibly damaging
rs6986845	XP_376756	R	S	RS	benign
rs6987002	XP_376756	P	S	PS	possibly damaging
rs6987984	XP_498284	G	R	GR	benign
rs6988591	NP_478136	N	S	NS	benign
rs6990563	NP_473369	G	D	GD	possibly damaging
rs6990761	NP_115613	I	V	IV	benign
rs6991366	NP_001547	L	M	LM	benign
rs6993291	NP_036463	A	D	AD	possibly damaging
rs6993345	XP_496962	K	N	KN	benign
rs6994975	NP_542382	A	S	AS	benign
rs6995099	NP_004297	V	I	VI	benign
rs6995412	NP_004309	R	M	RM	benign
rs6998705	XP_372035	R	P	RP	probably damaging
rs6998760	NP_149117	A	S	AS	benign
rs6999234	NP_060494	I	V	IV	benign
rs7001647	NP_068547	N	S	NS	benign
rs7001647	NP_055080	N	S	NS	benign
rs7001647	NP_068548	N	S	NS	benign
rs7001720	XP_114618	N	T	NT	benign
rs7001774	NP_689841	L	F	LF	benign
rs7001839	XP_376756	R	Q	RQ	benign
rs7001845	XP_376756	A	S	AS	benign
rs7001867	XP_498284	T	S	TS	benign
rs7002002	NP_958786	A	V	AV	benign
rs7002002	NP_958785	A	V	AV	benign
rs7002002	NP_958784	A	V	AV	benign

rs7002002	NP_958783	A	V	AV	benign
rs7002002	NP_958782	A	V	AV	benign
rs7002002	NP_958781	A	V	AV	benign
rs7002002	NP_958780	A	V	AV	benign
rs7002002	NP_000436	A	V	AV	benign
rs7002131	XP_376756	M	I	MI	benign
rs7002384	NP_054831	S	L	SL	benign
rs7004867	XP_291266	R	Q	RQ	possibly damaging
rs7005578	NP_079043	T	A	TA	benign
rs7005697	XP_372063	L	V	LV	benign
rs7006422	XP_376756	G	D	GD	possibly damaging
rs7007084	NP_055294	M	T	MT	benign
rs7008199	NP_116166	G	D	GD	benign
rs7008562	XP_498277	N	S	NS	benign
rs7009117	NP_006188	G	V	GV	probably damaging
rs7012390	XP_372063	V	D	VD	possibly damaging
rs7012758	XP_376781	I	T	IT	benign
rs7014678	NP_060494	N	S	NS	benign
rs7014851	NP_005135	T	A	TA	benign
rs7014851	NP_060881	T	A	TA	benign
rs7016250	NP_689627	S	A	SA	benign
rs7016831	NP_758954	T	N	TN	benign
rs7017776	NP_060841	N	S	NS	benign
rs7018553	XP_071099	F	S	FS	probably damaging
rs7019339	XP_497019	V	I	VI	benign
rs7019819	NP_006406	P	L	PL	probably damaging
rs7019819	NP_847894	P	L	PL	probably damaging
rs7019867	XP_372092	N	K	NK	benign
rs7019867	XP_497031	N	K	NK	benign
rs7020782	NP_002572	S	Y	SY	benign
rs7020958	NP_002151	G	S	GS	benign
rs7021366	NP_003789	E	Q	EQ	benign
rs7021572	NP_714918	E	K	EK	benign
rs7022785	XP_088459	V	A	VA	benign
rs7023652	NP_149078	D	E	DE	benign
rs7023954	NP_002442	V	I	VI	benign
rs7024108	NP_006050	T	M	TM	benign
rs7024916	XP_372117	S	R	SR	benign
rs7025336	NP_002188	E	D	ED	benign
rs7025559	NP_060418	D	E	DE	benign
rs7025570	XP_071093	P	S	PS	benign
rs7025570	XP_373308	P	S	PS	benign
rs7025599	NP_110394	S	F	SF	possibly damaging
rs7026705	XP_071096	A	D	AD	benign
rs7026851	NP_055379	N	D	ND	possibly damaging
rs7026851	NP_835258	N	D	ND	possibly damaging

rs7028124	XP_498309	S	R	SR	possibly damaging
rs7028288	XP_291314	E	D	ED	benign
rs7028996	XP_497048	G	A	GA	benign
rs7028998	XP_372092	K	N	KN	benign
rs7028998	XP_497031	K	N	KN	benign
rs7029707	NP_060418	K	E	KE	benign
rs7029864	XP_048462	L	Q	LQ	possibly damaging
rs7030179	NP_000161	H	N	HN	possibly damaging
rs7030366	XP_376888	A	V	AV	benign
rs7030820	XP_071099	T	M	TM	benign
rs7030823	NP_848631	V	A	VA	benign
rs7030899	NP_536856	S	A	SA	benign
rs7031762	XP_498307	R	P	RP	probably damaging
rs7031810	NP_997188	I	V	IV	benign
rs7031966	NP_055722	T	N	TN	benign
rs7032134	NP_000467	G	R	GR	benign
rs7033581	XP_497061	S	G	SG	possibly damaging
rs7035276	NP_060208	I	T	IT	benign
rs7036014	NP_060383	S	F	SF	benign
rs7036635	NP_005445	V	I	VI	benign
rs7036849	XP_497061	C	R	CR	benign
rs7037849	NP_997192	V	A	VA	benign
rs7037864	NP_068800	D	G	DG	benign
rs7038707	XP_497051	V	A	VA	benign
rs7039287	NP_671492	C	Y	CY	probably damaging
rs7039287	NP_009134	C	Y	CY	probably damaging
rs7039409	NP_671492	R	Q	RQ	benign
rs7039409	NP_009134	R	Q	RQ	benign
rs7040763	XP_372118	R	P	RP	probably damaging
rs7040838	NP_064530	C	S	CS	benign
rs7041513	NP_689634	R	K	RK	benign
rs7041938	XP_171207	N	H	NH	benign
rs7042337	XP_088525	I	M	IM	benign
rs7042502	XP_071093	L	M	LM	benign
rs7042502	XP_373308	L	M	LM	benign
rs7042788	NP_003854	T	A	TA	benign
rs7042996	XP_372090	V	G	VG	benign
rs7043846	NP_653254	A	T	AT	benign
rs7044352	XP_372128	Y	H	YH	benign
rs7044405	XP_373289	H	R	HR	benign
rs7044561	XP_291314	H	N	HN	possibly damaging
rs7045088	NP_006257	C	S	CS	probably damaging
rs7046603	XP_373317	W	R	WR	benign
rs7047404	XP_030729	P	S	PS	possibly damaging
rs7047681	NP_006634	L	V	LV	benign
rs7048652	NP_060418	A	S	AS	benign



rs7049042	XP_071099	F	S	FS	probably damaging
rs7050077	NP_543022	N	S	NS	benign
rs7050904	XP_172801	E	A	EA	benign
rs7051260	NP_065983	E	D	ED	benign
rs7053761	XP_208423	R	Q	RQ	possibly damaging
rs7056263	XP_377062	T	I	TI	benign
rs7056365	NP_787064	S	I	SI	possibly damaging
rs7057232	NP_061136	N	D	ND	benign
rs7058123	NP_114100	E	V	EV	probably damaging
rs7058353	NP_006214	S	R	SR	benign
rs7059443	XP_373351	E	K	EK	benign
rs7059508	NP_056968	Y	S	YS	possibly damaging
rs7059610	XP_498374	S	L	SL	benign
rs7061150	XP_291321	T	I	TI	benign
rs7061195	XP_373373	I	F	IF	benign
rs7061500	XP_293342	G	D	GD	probably damaging
rs7062352	NP_079460	E	K	EK	benign
rs7062640	NP_803134	R	C	RC	benign
rs7063611	XP_172801	P	A	PA	possibly damaging
rs7063931	XP_377014	V	G	VG	probably damaging
rs7064613	NP_079193	S	R	SR	benign
rs7065449	NP_006141	R	C	RC	possibly damaging
rs7065872	NP_114422	L	F	LF	benign
rs7065978	NP_001542	T	I	TI	probably damaging
rs7066252	NP_001930	V	L	VL	benign
rs7066649	NP_005305	F	I	FI	probably damaging
rs7066976	XP_373351	I	T	IT	probably damaging
rs7067496	NP_004645	E	D	ED	benign
rs7067625	NP_063946	T	A	TA	benign
rs7067816	NP_073713	R	L	RL	possibly damaging
rs7068431	NP_068815	S	P	SP	possibly damaging
rs7070135	NP_003165	V	L	VL	benign
rs7070135	NP_068506	V	L	VL	benign
rs7071400	NP_055535	G	E	GE	benign
rs7071768	NP_002408	N	S	NS	benign
rs7072484	NP_060601	C	R	CR	benign
rs7072520	XP_495824	P	R	PR	probably damaging
rs7072606	NP_775795	P	S	PS	benign
rs7072728	XP_495843	L	P	LP	possibly damaging
rs7073433	NP_996744	R	W	RW	probably damaging
rs7073610	NP_060764	P	L	PL	benign
rs7074707	NP_937781	Y	C	YC	probably damaging
rs7074707	NP_056305	Y	C	YC	probably damaging
rs7074847	NP_758442	Q	R	QR	benign
rs7074847	NP_036575	Q	R	QR	benign
rs7075067	NP_115939	S	R	SR	possibly damaging

rs7075296	NP_002207	S	N	SN	benign
rs7075840	NP_997255	H	R	HR	benign
rs7078073	NP_075261	P	A	PA	benign
rs7078073	NP_075417	P	A	PA	benign
rs7078073	NP_075420	P	A	PA	benign
rs7078073	NP_075264	P	A	PA	benign
rs7078073	NP_075418	P	A	PA	possibly damaging
rs7078073	NP_075258	P	A	PA	possibly damaging
rs7078073	NP_075259	P	A	PA	possibly damaging
rs7078073	NP_075262	P	A	PA	possibly damaging
rs7078073	NP_075263	P	A	PA	possibly damaging
rs7078073	NP_075419	P	A	PA	possibly damaging
rs7078073	NP_000132	P	A	PA	possibly damaging
rs7079053	NP_003864	A	V	AV	benign
rs7079388	NP_542166	N	S	NS	benign
rs7079481	NP_115967	P	T	PT	probably damaging
rs7080536	NP_004123	G	E	GE	probably damaging
rs7080681	NP_000383	R	H	RH	benign
rs7080916	NP_060601	A	T	AT	benign
rs7081076	NP_056200	G	V	GV	probably damaging
rs7081659	NP_776152	P	H	PH	benign
rs7081726	NP_055271	I	V	IV	benign
rs7081726	NP_663314	I	V	IV	benign
rs7083033	NP_660355	H	R	HR	possibly damaging
rs7083331	NP_996742	I	T	IT	benign
rs7083331	NP_996743	I	T	IT	benign
rs7083331	NP_996744	I	T	IT	benign
rs7083331	NP_008928	I	T	IT	benign
rs7083344	NP_689799	G	D	GD	benign
rs7083418	NP_009196	E	K	EK	benign
rs7083532	NP_009196	D	N	DN	benign
rs7083622	NP_002408	T	N	TN	benign
rs7083776	NP_996744	D	G	DG	benign
rs7084118	NP_004367	V	G	VG	benign
rs7084118	NP_510870	V	G	VG	possibly damaging
rs7084817	NP_002207	L	V	LV	benign
rs7084877	NP_004732	P	R	PR	probably damaging
rs7086200	NP_149091	A	V	AV	benign
rs7087107	NP_689416	M	I	MI	benign
rs7087328	XP_089747	Q	H	QH	possibly damaging
rs7088165	NP_003930	V	I	VI	benign
rs7088165	NP_378663	V	I	VI	benign
rs7089948	NP_005389	A	S	AS	benign
rs7089970	XP_372331	A	E	AE	benign
rs7090059	NP_056428	P	Q	PQ	possibly damaging
rs7090248	NP_997204	K	R	KR	benign

rs7091419	NP_006711	R	G	RG	benign
rs7091419	NP_002304	R	G	RG	possibly damaging
rs7092117	XP_495798	K	E	KE	benign
rs7092170	NP_006552	A	V	AV	benign
rs7094973	NP_065082	A	T	AT	benign
rs7095762	NP_060487	Q	K	QK	benign
rs7097295	XP_291723	R	H	RH	benign
rs7099177	NP_004397	R	L	RL	benign
rs7099177	NP_060049	R	L	RL	possibly damaging
rs7099177	NP_015568	R	L	RL	possibly damaging
rs7099565	NP_631908	R	K	RK	benign
rs7101891	XP_495873	V	L	VL	benign
rs7101919	XP_372359	I	T	IT	possibly damaging
rs7102322	NP_473373	N	S	NS	benign
rs7102464	NP_112224	E	K	EK	benign
rs7102536	XP_291980	Y	C	YC	probably damaging
rs7102584	NP_000881	Q	E	QE	benign
rs7102825	XP_495863	M	V	MV	benign
rs7103026	XP_166917	K	E	KE	benign
rs7103126	NP_620123	V	A	VA	benign
rs7103820	NP_955384	G	R	GR	possibly damaging
rs7103994	XP_497315	E	Q	EQ	benign
rs7104156	NP_071504	H	L	HL	probably damaging
rs7104156	NP_000911	H	L	HL	probably damaging
rs7104422	NP_149023	P	L	PL	probably damaging
rs7104979	NP_848605	P	L	PL	probably damaging
rs7105443	XP_495863	K	R	KR	benign
rs7105528	NP_001226	A	P	AP	benign
rs7105729	NP_938016	D	V	DV	probably damaging
rs7106300	XP_372369	P	L	PL	possibly damaging
rs7106330	XP_372353	V	L	VL	benign
rs7106654	NP_057307	A	V	AV	possibly damaging
rs7106897	XP_495885	T	I	TI	benign
rs7107077	XP_372391	L	I	LI	benign
rs7107539	XP_208543	C	W	CW	benign
rs7108205	NP_878904	A	G	AG	benign
rs7108205	NP_065693	A	G	AG	benign
rs7108225	XP_061619	M	T	MT	benign
rs7108654	XP_061619	V	A	VA	benign
rs7108757	NP_112554	A	T	AT	benign
rs7108757	NP_068743	A	T	AT	benign
rs7109028	NP_003728	P	L	PL	probably damaging
rs7109316	NP_060543	Y	S	YS	probably damaging
rs7109614	XP_374927	P	S	PS	probably damaging
rs7110221	NP_005238	Q	L	QL	probably damaging
rs7110736	NP_110397	F	L	FL	benign

rs7110845	NP_055167	H	R	HR	possibly damaging
rs7111280	NP_955361	W	R	WR	probably damaging
rs7111428	XP_084672	I	M	IM	benign
rs7111429	XP_374927	M	T	MT	possibly damaging
rs7111486	NP_059509	I	V	IV	benign
rs7111528	XP_291816	T	M	TM	benign
rs7111538	NP_997257	R	Q	RQ	possibly damaging
rs7111634	XP_166831	D	G	DG	possibly damaging
rs7111805	NP_079047	A	V	AV	benign
rs7111912	XP_495874	E	G	EG	probably damaging
rs7112010	XP_061674	S	L	SL	possibly damaging
rs7112053	NP_000042	L	V	LV	benign
rs7112649	XP_495863	L	V	LV	benign
rs7112652	NP_060964	P	S	PS	possibly damaging
rs7112652	NP_665894	P	S	PS	possibly damaging
rs7112652	NP_665893	P	S	PS	possibly damaging
rs7112904	NP_006380	K	E	KE	benign
rs7113015	XP_372371	P	L	PL	possibly damaging
rs7113308	XP_062300	F	L	FL	benign
rs7114037	XP_374898	H	Q	HQ	benign
rs7114415	XP_166869	S	T	ST	benign
rs7114672	XP_372371	V	M	VM	possibly damaging
rs7114712	NP_060327	E	V	EV	possibly damaging
rs7114712	NP_060746	E	V	EV	possibly damaging
rs7116027	XP_290536	E	A	EA	possibly damaging
rs7116126	NP_060017	H	R	HR	probably damaging
rs7116130	NP_787128	W	R	WR	benign
rs7116575	XP_210186	C	F	CF	benign
rs7117260	XP_061624	L	R	LR	possibly damaging
rs7117340	NP_065079	N	S	NS	benign
rs7117495	NP_002171	A	T	AT	benign
rs7117511	NP_000251	D	N	DN	benign
rs7118113	NP_149419	I	V	IV	benign
rs7118695	NP_714916	T	P	TP	probably damaging
rs7118900	NP_848605	A	T	AT	benign
rs7120079	XP_166903	F	L	FL	benign
rs7120555	NP_443200	Q	H	QH	benign
rs7120634	NP_006770	I	F	IF	benign
rs7120743	XP_372378	G	E	GE	probably damaging
rs7121106	NP_060631	P	L	PL	possibly damaging
rs7121276	XP_372403	A	S	AS	benign
rs7121880	XP_166820	H	D	HD	probably damaging
rs7122089	NP_002171	P	A	PA	probably damaging
rs7122277	NP_058648	K	R	KR	benign
rs7122468	NP_060310	G	S	GS	possibly damaging
rs7122514	XP_166820	T	M	TM	benign

rs7122644	NP_003687	A	V	AV	benign
rs7123108	XP_166831	C	Y	CY	probably damaging
rs7123885	NP_002680	S	N	SN	benign
rs7123948	XP_290536	A	V	AV	benign
rs7124068	NP_002412	T	P	TP	benign
rs7124407	NP_542390	R	T	RT	benign
rs7124409	NP_057404	L	H	LH	possibly damaging
rs7124834	NP_057404	T	S	TS	benign
rs7124834	NP_624357	T	S	TS	benign
rs7124871	XP_372386	R	L	RL	benign
rs7125451	NP_066288	A	T	AT	benign
rs7125822	NP_055176	L	R	LR	possibly damaging
rs7125959	NP_060960	R	G	RG	benign
rs7126079	XP_372394	P	L	PL	probably damaging
rs7126904	NP_068813	M	I	MI	benign
rs7128017	NP_852609	L	M	LM	benign
rs7128029	NP_787128	T	A	TA	benign
rs7128044	NP_787128	Y	C	YC	benign
rs7128652	NP_004467	N	S	NS	benign
rs7128850	XP_374922	Q	K	QK	benign
rs7129272	NP_077019	E	G	EG	possibly damaging
rs7129887	NP_944605	L	P	LP	possibly damaging
rs7130086	XP_497275	T	M	TM	possibly damaging
rs7130624	XP_497281	R	C	RC	possibly damaging
rs7130656	NP_060859	I	V	IV	benign
rs7131283	XP_495876	N	Y	NY	possibly damaging
rs7132347	XP_372459	H	D	HD	possibly damaging
rs7132431	XP_372459	C	Y	CY	probably damaging
rs7132464	XP_495908	N	D	ND	benign
rs7132600	XP_372459	T	I	TI	probably damaging
rs7132916	XP_372459	V	I	VI	benign
rs7133444	NP_112592	D	N	DN	benign
rs7133914	XP_058513	R	H	RH	benign
rs7135018	NP_795370	K	E	KE	benign
rs7135642	NP_115523	R	G	RG	benign
rs7137123	NP_066289	P	S	PS	probably damaging
rs7137185	NP_004438	D	E	DE	benign
rs7137719	NP_387467	V	E	VE	benign
rs7138580	XP_374987	E	Q	EQ	benign
rs7138767	XP_033113	A	T	AT	benign
rs7140044	NP_006428	N	S	NS	benign
rs7140561	NP_005921	V	A	VA	benign
rs7140561	NP_976230	V	A	VA	benign
rs7140914	NP_060440	C	F	CF	probably damaging
rs7141532	XP_113763	P	A	PA	possibly damaging
rs7142020	NP_001827	V	A	VA	probably damaging

rs7142228	XP_375085	S	P	SP	probably damaging
rs7143633	XP_370737	V	L	VL	benign
rs7143758	NP_872198	E	D	ED	benign
rs7143758	NP_004746	E	D	ED	benign
rs7144523	NP_031387	R	Q	RQ	benign
rs7144658	NP_004487	A	T	AT	benign
rs7145583	XP_029353	F	S	FS	possibly damaging
rs7145814	XP_372509	I	V	IV	benign
rs7146310	NP_078934	V	A	VA	benign
rs7146672	NP_002809	H	P	HP	probably damaging
rs7147177	NP_976046	P	S	PS	benign
rs7147300	NP_000350	D	N	DN	benign
rs7147671	NP_071356	D	G	DG	benign
rs7148147	NP_689542	R	W	RW	benign
rs7149578	XP_050278	S	Y	SY	benign
rs7149586	NP_004545	S	P	SP	benign
rs7149769	XP_050278	P	R	PR	benign
rs7150973	XP_375087	N	S	NS	benign
rs7151995	XP_377338	W	L	WL	benign
rs7153640	NP_006862	E	V	EV	possibly damaging
rs7154732	NP_861535	F	L	FL	benign
rs7154732	NP_853511	F	L	FL	benign
rs7155490	XP_051699	E	K	EK	benign
rs7155504	XP_170749	Y	C	YC	probably damaging
rs7155812	NP_851937	N	S	NS	benign
rs7156206	NP_056161	S	N	SN	benign
rs7156590	NP_113652	R	Q	RQ	benign
rs7157076	XP_063308	M	V	MV	benign
rs7157156	XP_050278	A	V	AV	benign
rs7157583	NP_071337	R	Q	RQ	benign
rs7157599	NP_996801	S	N	SN	benign
rs7157661	NP_001093	N	T	NT	benign
rs7157977	XP_113763	A	T	AT	benign
rs7158653	NP_055175	S	F	SF	possibly damaging
rs7160308	XP_029353	L	V	LV	benign
rs7161563	NP_004187	Q	E	QE	benign
rs7161680	XP_063202	D	N	DN	benign
rs7161810	XP_031744	P	L	PL	probably damaging
rs7162168	NP_009131	M	T	MT	benign
rs7162168	NP_006729	M	T	MT	benign
rs7162473	NP_003913	D	E	DE	benign
rs7162519	NP_003913	H	N	HN	possibly damaging
rs7163313	NP_056347	N	K	NK	possibly damaging
rs7165897	NP_857593	P	L	PL	benign
rs7165897	NP_003701	P	L	PL	benign
rs7166441	XP_372589	R	G	RG	benign

rs7166994	NP_054799	D	E	DE	benign
rs7167216	NP_000048	V	I	VI	benign
rs7167318	NP_078781	K	E	KE	benign
rs7167896	XP_496026	S	P	SP	benign
rs7168025	NP_078781	R	G	RG	possibly damaging
rs7168069	NP_036343	R	L	RL	possibly damaging
rs7168775	NP_699205	S	F	SF	possibly damaging
rs7169142	NP_733468	L	S	LS	benign
rs7169142	NP_653091	L	S	LS	benign
rs7169262	XP_031561	P	S	PS	possibly damaging
rs7169362	XP_497467	T	A	TA	benign
rs7169404	XP_031561	R	L	RL	probably damaging
rs7169420	XP_497472	V	L	VL	benign
rs7170589	NP_073752	H	N	HN	possibly damaging
rs7170637	NP_055423	G	S	GS	benign
rs7170898	NP_056355	R	G	RG	possibly damaging
rs7171194	XP_372589	M	T	MT	benign
rs7172685	NP_055767	N	S	NS	benign
rs7172758	NP_955445	E	A	EA	possibly damaging
rs7172758	NP_955446	E	A	EA	possibly damaging
rs7172758	NP_003972	E	A	EA	possibly damaging
rs7172804	XP_496034	T	A	TA	benign
rs7173005	XP_170777	I	R	IR	possibly damaging
rs7173104	NP_057726	Q	H	QH	benign
rs7173448	NP_079516	P	L	PL	possibly damaging
rs7173476	NP_079516	R	S	RS	possibly damaging
rs7173744	XP_496045	A	T	AT	benign
rs7173826	NP_078942	L	I	LI	benign
rs7174493	NP_002866	L	V	LV	benign
rs7175005	NP_004830	R	H	RH	benign
rs7175005	NP_955362	R	H	RH	benign
rs7175332	XP_496026	T	M	TM	possibly damaging
rs7175654	NP_000129	P	A	PA	benign
rs7175910	NP_997400	M	T	MT	probably damaging
rs7175979	NP_777576	E	Q	EQ	benign
rs7176688	XP_370893	F	S	FS	probably damaging
rs7176831	XP_496026	L	P	LP	possibly damaging
rs7177092	NP_004127	T	I	TI	possibly damaging
rs7177107	NP_009131	E	K	EK	benign
rs7177107	NP_006729	E	K	EK	benign
rs7177192	NP_733468	R	T	RT	benign
rs7177192	NP_653091	R	T	RT	benign
rs7178160	XP_091156	G	V	GV	possibly damaging
rs7178181	NP_570854	S	F	SF	benign
rs7178181	NP_000453	S	F	SF	benign
rs7178181	NP_570853	S	F	SF	benign

rs7178234	NP_064597	T	M	TM	benign
rs7178634	NP_060924	T	A	TA	benign
rs7178777	NP_060924	T	N	TN	benign
rs7179073	NP_997221	T	M	TM	possibly damaging
rs7180279	NP_937784	Q	R	QR	benign
rs7180330	NP_997205	A	S	AS	benign
rs7180374	XP_375150	R	C	RC	probably damaging
rs7181742	NP_937784	F	S	FS	benign
rs7181869	XP_372576	Q	H	QH	benign
rs7182648	NP_116255	S	F	SF	benign
rs7182723	NP_076968	Q	R	QR	benign
rs7182782	NP_003913	G	R	GR	possibly damaging
rs7182971	NP_055874	V	I	VI	benign
rs7183491	NP_078884	I	M	IM	benign
rs7185231	XP_377407	P	L	PL	probably damaging
rs7185611	XP_372611	I	T	IT	possibly damaging
rs7185774	NP_877417	G	D	GD	possibly damaging
rs7185990	NP_005877	E	D	ED	benign
rs7186361	XP_496156	Q	R	QR	benign
rs7186504	NP_005539	P	Q	PQ	probably damaging
rs7187001	NP_115909	S	G	SG	benign
rs7187073	NP_005242	Q	H	QH	benign
rs7187227	NP_004195	G	S	GS	possibly damaging
rs7187246	XP_058743	L	P	LP	benign
rs7187826	NP_775186	L	P	LP	possibly damaging
rs7187826	NP_775187	L	P	LP	possibly damaging
rs7187826	NP_004546	L	P	LP	possibly damaging
rs7187826	NP_775188	L	P	LP	possibly damaging
rs7187889	NP_000503	T	M	TM	benign
rs7188200	NP_777577	L	P	LP	probably damaging
rs7188554	NP_071938	H	R	HR	possibly damaging
rs7188856	NP_057340	I	T	IT	benign
rs7189300	XP_496134	L	Q	LQ	possibly damaging
rs7189697	NP_071752	G	S	GS	benign
rs7189978	XP_370992	Q	R	QR	benign
rs7190372	NP_001288	P	S	PS	benign
rs7190666	NP_055526	M	I	MI	benign
rs7190823	NP_000126	T	A	TA	benign
rs7190978	NP_001288	D	E	DE	benign
rs7191155	NP_694940	L	P	LP	benign
rs7191331	NP_060701	T	I	TI	benign
rs7191351	NP_877417	Q	L	QL	probably damaging
rs7191921	NP_060594	G	V	GV	possibly damaging
rs7192210	NP_060358	E	K	EK	benign
rs7192948	NP_877417	S	Y	SY	possibly damaging
rs7192962	NP_060460	N	I	NI	probably damaging



rs7193297	NP_008816	A	S	AS	benign
rs7193541	NP_060594	I	V	IV	benign
rs7193572	NP_060701	L	P	LP	benign
rs7193955	NP_150229	C	R	CR	possibly damaging
rs7194136	NP_877417	Q	H	QH	possibly damaging
rs7194407	XP_292512	S	P	SP	possibly damaging
rs7194844	NP_997397	Q	E	QE	benign
rs7194844	NP_060172	Q	E	QE	benign
rs7194871	NP_877417	K	Q	KQ	benign
rs7195066	NP_000126	G	D	GD	benign
rs7195142	NP_055586	R	Q	RQ	benign
rs7195142	NP_919333	R	Q	RQ	possibly damaging
rs7195194	NP_659547	T	R	TR	benign
rs7195805	NP_055430	R	Q	RQ	benign
rs7196016	NP_115645	S	C	SC	probably damaging
rs7196188	NP_005613	P	T	PT	benign
rs7196188	NP_973729	P	T	PT	benign
rs7196345	NP_115820	P	S	PS	benign
rs7196482	NP_758857	G	R	GR	possibly damaging
rs7196726	NP_055514	G	D	GD	benign
rs7196804	NP_074035	V	M	VM	benign
rs7196804	NP_002465	V	M	VM	benign
rs7197352	NP_001248	L	S	LS	benign
rs7197424	XP_292504	P	S	PS	possibly damaging
rs7197779	NP_000237	R	Q	RQ	benign
rs7198458	NP_004156	Q	P	QP	benign
rs7198494	NP_689550	I	T	IT	benign
rs7198865	NP_036238	E	K	EK	benign
rs7199313	XP_377407	R	C	RC	possibly damaging
rs7200126	NP_060028	T	N	TN	benign
rs7200143	NP_689865	Q	R	QR	benign
rs7200466	NP_071449	V	I	VI	benign
rs7200485	NP_060028	R	P	RP	possibly damaging
rs7201174	XP_370968	H	R	HR	possibly damaging
rs7201448	NP_000623	A	V	AV	benign
rs7201481	NP_055515	A	S	AS	benign
rs7201683	NP_061030	L	V	LV	benign
rs7202010	NP_631909	A	V	AV	benign
rs7202502	XP_372607	A	V	AV	benign
rs7202618	NP_660313	P	L	PL	probably damaging
rs7202925	NP_207837	E	D	ED	benign
rs7203084	XP_497494	A	V	AV	benign
rs7203801	NP_006653	A	V	AV	benign
rs7205299	NP_997397	A	V	AV	benign
rs7205673	NP_877417	P	L	PL	probably damaging
rs7206111	NP_443722	T	K	TK	benign

rs7206332	NP_036258	A	T	AT	benign
rs7206332	NP_078809	A	T	AT	benign
rs7206509	NP_689669	S	T	ST	benign
rs7207402	NP_000410	V	L	VL	benign
rs7207414	XP_064265	M	R	MR	probably damaging
rs7207965	NP_064706	A	T	AT	benign
rs7208207	NP_061184	Y	C	YC	probably damaging
rs7208422	NP_689681	N	I	NI	benign
rs7208693	NP_000241	V	F	VF	benign
rs7208980	NP_115971	H	Y	HY	possibly damaging
rs7209228	NP_853513	G	D	GD	benign
rs7209474	NP_932348	M	V	MV	benign
rs7209610	NP_113644	R	G	RG	probably damaging
rs7210156	XP_371053	P	L	PL	probably damaging
rs7210262	NP_115971	E	G	EG	benign
rs7210616	NP_839947	R	Q	RQ	benign
rs7211159	NP_112497	D	E	DE	benign
rs7211440	NP_922921	S	P	SP	benign
rs7211440	NP_115698	S	P	SP	possibly damaging
rs7211480	NP_061889	G	D	GD	probably damaging
rs7211875	NP_597683	S	P	SP	benign
rs7211875	NP_001479	S	P	SP	possibly damaging
rs7212260	NP_005073	V	G	VG	benign
rs7212483	NP_061883	S	N	SN	benign
rs7212506	NP_525023	M	I	MI	benign
rs7212573	NP_543139	T	A	TA	benign
rs7212634	NP_659505	T	I	TI	benign
rs7212938	NP_835465	L	V	LV	benign
rs7212944	NP_835465	E	K	EK	benign
rs7213119	NP_057602	R	C	RC	possibly damaging
rs7213256	NP_998821	R	Q	RQ	benign
rs7213444	XP_371084	T	A	TA	benign
rs7213548	XP_371079	C	S	CS	benign
rs7213731	NP_694962	I	M	IM	benign
rs7213894	XP_085578	T	I	TI	possibly damaging
rs7214136	NP_004167	R	Q	RQ	benign
rs7214448	NP_689483	G	S	GS	possibly damaging
rs7214723	NP_757343	E	G	EG	benign
rs7214723	NP_757344	G	E	GE	possibly damaging
rs7214751	NP_689483	A	T	AT	benign
rs7215148	NP_683718	E	Q	EQ	benign
rs7215148	NP_004160	E	Q	EQ	benign
rs7215209	NP_060566	K	R	KR	benign
rs7215458	NP_000143	P	R	PR	probably damaging
rs7215698	NP_002713	E	G	EG	possibly damaging
rs7215958	XP_050041	R	H	RH	possibly damaging

rs7216284	NP_699169	W	R	WR	probably damaging
rs7216445	NP_689513	M	V	MV	benign
rs7216445	NP_008941	M	V	MV	benign
rs7216623	NP_002894	T	A	TA	benign
rs7216787	XP_290743	G	D	GD	possibly damaging
rs7218599	NP_543139	Q	H	QH	benign
rs7218738	XP_371079	P	S	PS	possibly damaging
rs7218767	NP_001979	E	D	ED	benign
rs7218964	XP_292627	L	I	LI	benign
rs7219366	NP_005883	A	P	AP	benign
rs7220243	NP_066005	S	P	SP	benign
rs7220988	NP_056258	P	L	PL	possibly damaging
rs7221187	NP_976063	A	V	AV	benign
rs7221187	NP_510880	A	V	AV	benign
rs7221752	NP_079473	T	P	TP	benign
rs7221752	NP_788275	T	P	TP	benign
rs7221752	NP_788276	T	P	TP	possibly damaging
rs7222013	NP_004685	F	I	FI	possibly damaging
rs7222276	NP_938190	R	H	RH	benign
rs7222276	NP_938191	R	H	RH	benign
rs7222276	NP_938192	R	H	RH	benign
rs7222276	NP_938193	R	H	RH	benign
rs7222276	NP_938194	R	H	RH	benign
rs7222276	NP_938196	R	H	RH	benign
rs7222276	NP_938197	R	H	RH	benign
rs7222276	NP_938198	R	H	RH	benign
rs7222276	NP_938199	R	H	RH	benign
rs7222276	NP_938200	R	H	RH	benign
rs7222276	NP_938201	R	H	RH	benign
rs7222276	NP_938202	R	H	RH	benign
rs7222276	NP_938406	R	H	RH	benign
rs7222276	NP_938407	R	H	RH	benign
rs7222276	NP_061496	R	H	RH	benign
rs7222388	NP_056109	V	I	VI	benign
rs7222491	NP_004850	L	V	LV	benign
rs7222520	NP_689676	V	I	VI	benign
rs7222757	NP_775818	V	G	VG	benign
rs7222862	NP_115684	R	W	RW	probably damaging
rs7223226	NP_114171	N	D	ND	benign
rs7224330	NP_543139	T	I	TI	benign
rs7224496	NP_443160	I	R	IR	possibly damaging
rs7224723	NP_065704	K	T	KT	benign
rs7224861	NP_694960	R	Q	RQ	benign
rs7224888	NP_703147	C	R	CR	probably damaging
rs7224902	NP_002542	L	F	LF	benign
rs7224902	NP_036505	L	F	LF	benign

rs7225107	NP_001132	I	V	IV	probably damaging
rs7225888	NP_115698	H	Q	HQ	benign
rs7225888	NP_922921	H	Q	HQ	possibly damaging
rs7226091	XP_375500	H	Q	HQ	benign
rs7226137	NP_002135	E	G	EG	benign
rs7226192	NP_005548	G	S	GS	possibly damaging
rs7226363	NP_114104	R	H	RH	benign
rs7229252	NP_817123	I	T	IT	benign
rs7229433	NP_003794	E	K	EK	benign
rs7229690	NP_057355	K	R	KR	benign
rs7229727	XP_496264	V	A	VA	benign
rs7230131	NP_115500	R	Q	RQ	benign
rs7232237	XP_290811	M	V	MV	benign
rs7234328	NP_056291	D	N	DN	benign
rs7234999	NP_443179	H	Y	HY	benign
rs7235420	NP_003400	Q	R	QR	benign
rs7235423	XP_113971	D	V	DV	probably damaging
rs7235740	NP_003400	E	G	EG	possibly damaging
rs7235917	NP_056276	D	N	DN	benign
rs7236435	XP_371116	H	P	HP	probably damaging
rs7238035	XP_371114	P	S	PS	benign
rs7238500	NP_005350	M	V	MV	possibly damaging
rs7239480	XP_091830	I	V	IV	benign
rs7240487	XP_292700	A	P	AP	possibly damaging
rs7240666	NP_443179	V	I	VI	benign
rs7240860	NP_741996	T	A	TA	possibly damaging
rs7242538	NP_031371	S	F	SF	possibly damaging
rs7243088	NP_056023	T	S	TS	benign
rs7244624	NP_056276	I	V	IV	benign
rs7245396	NP_060378	G	A	GA	benign
rs7245423	XP_496314	T	I	TI	benign
rs7245429	NP_115823	P	H	PH	probably damaging
rs7245558	NP_115823	T	N	TN	benign
rs7245561	NP_612143	K	R	KR	benign
rs7245761	XP_373433	V	A	VA	benign
rs7245805	NP_077293	S	G	SG	benign
rs7245807	NP_201586	Y	C	YC	possibly damaging
rs7245807	NP_443729	Y	C	YC	probably damaging
rs7245858	XP_372741	L	P	LP	possibly damaging
rs7245978	NP_002774	Y	H	YH	possibly damaging
rs7246232	NP_005348	R	S	RS	benign
rs7246376	NP_115823	P	L	PL	benign
rs7246400	NP_775802	I	T	IT	benign
rs7246737	NP_005865	F	S	FS	benign
rs7246856	XP_371200	I	R	IR	possibly damaging
rs7246969	XP_064883	S	F	SF	probably damaging

rs7246980	XP_064883	A	V	AV	possibly damaging
rs7246981	NP_000765	P	L	PL	probably damaging
rs7247001	NP_201574	N	S	NS	benign
rs7247025	NP_005865	R	G	RG	benign
rs7247055	NP_005865	T	R	TR	benign
rs7247162	NP_892018	E	K	EK	benign
rs7247190	NP_059979	P	S	PS	benign
rs7247190	NP_612630	P	S	PS	probably damaging
rs7247284	NP_006388	L	S	LS	benign
rs7247451	NP_005865	W	C	WC	benign
rs7247504	NP_060190	N	D	ND	benign
rs7247538	NP_005865	Y	H	YH	benign
rs7247751	XP_372708	P	L	PL	possibly damaging
rs7248193	NP_060770	H	R	HR	benign
rs7248295	NP_112490	Y	S	YS	benign
rs7248296	NP_006857	L	F	LF	benign
rs7248508	NP_004136	V	A	VA	benign
rs7248674	NP_612143	H	D	HD	benign
rs7248778	NP_001514	R	C	RC	benign
rs7248839	NP_003881	G	V	GV	probably damaging
rs7248888	NP_060685	C	Y	CY	benign
rs7248970	NP_000166	A	G	AG	benign
rs7249021	NP_112490	A	T	AT	benign
rs7249054	NP_006857	R	C	RC	benign
rs7249069	NP_940873	E	K	EK	benign
rs7249106	XP_290865	A	V	AV	benign
rs7249154	NP_006857	G	A	GA	benign
rs7249156	NP_005157	A	P	AP	benign
rs7249222	NP_068713	D	N	DN	benign
rs7249222	NP_001690	D	N	DN	benign
rs7249230	NP_004354	E	K	EK	benign
rs7249305	NP_000946	H	R	HR	benign
rs7249379	XP_371138	V	F	VF	probably damaging
rs7249410	NP_940942	R	W	RW	probably damaging
rs7249419	NP_542157	R	G	RG	possibly damaging
rs7249419	NP_004049	R	G	RG	probably damaging
rs7249743	NP_003881	M	V	MV	benign
rs7249808	XP_496291	P	L	PL	benign
rs7249811	NP_006857	V	G	VG	probably damaging
rs7249952	NP_065863	I	T	IT	benign
rs7249989	NP_056534	R	Q	RQ	benign
rs7250083	NP_065746	K	M	KM	benign
rs7250282	NP_061025	L	S	LS	benign
rs7250438	XP_371152	T	I	TI	possibly damaging
rs7250630	NP_003429	H	R	HR	probably damaging
rs7250795	XP_371138	T	M	TM	possibly damaging

rs7250894	XP_371138	R	G	RG	probably damaging
rs7250947	XP_375558	R	C	RC	possibly damaging
rs7250969	NP_003429	R	Q	RQ	benign
rs7251008	NP_976308	G	R	GR	benign
rs7251041	XP_114000	P	L	PL	probably damaging
rs7251081	NP_443204	G	S	GS	benign
rs7251226	NP_660288	Q	H	QH	possibly damaging
rs7251437	NP_003074	A	G	AG	benign
rs7251713	NP_919409	R	Q	RQ	benign
rs7251713	NP_055496	R	Q	RQ	benign
rs7251797	NP_036424	S	G	SG	benign
rs7251798	NP_006201	V	L	VL	benign
rs7251853	XP_375664	P	A	PA	possibly damaging
rs7251858	XP_375558	A	T	AT	benign
rs7252070	XP_496291	T	A	TA	benign
rs7252121	NP_892018	T	I	TI	benign
rs7252128	NP_940859	T	R	TR	benign
rs7252175	NP_036287	L	F	LF	possibly damaging
rs7252210	NP_653165	V	M	VM	benign
rs7252299	NP_112219	H	Q	HQ	possibly damaging
rs7252640	NP_778148	R	C	RC	benign
rs7252811	NP_003191	P	S	PS	probably damaging
rs7252818	NP_940859	M	V	MV	possibly damaging
rs7253155	NP_620129	M	I	MI	benign
rs7253301	NP_071907	F	L	FL	possibly damaging
rs7253301	NP_690009	F	L	FL	possibly damaging
rs7253301	NP_690008	F	L	FL	possibly damaging
rs7253301	NP_690007	F	L	FL	possibly damaging
rs7254227	NP_775904	L	M	LM	benign
rs7254284	XP_055866	A	S	AS	benign
rs7254311	NP_003420	K	T	KT	probably damaging
rs7254436	XP_497613	T	R	TR	benign
rs7254529	XP_371138	Y	H	YH	benign
rs7254762	XP_497613	K	M	KM	probably damaging
rs7254819	XP_496290	E	Q	EQ	benign
rs7254995	XP_290865	C	G	CG	probably damaging
rs7255057	NP_689997	H	R	HR	possibly damaging
rs7255186	NP_848639	L	F	LF	benign
rs7255187	XP_375558	A	E	AE	benign
rs7255298	XP_375558	T	I	TI	possibly damaging
rs7255518	XP_496314	V	I	VI	benign
rs7255668	XP_496322	Y	D	YD	probably damaging
rs7255721	NP_112219	T	S	TS	benign
rs7255780	XP_065124	A	G	AG	benign
rs7256147	NP_001965	V	I	VI	benign
rs7256321	NP_005806	P	Q	PQ	possibly damaging

rs7256387	XP_375558	K	N	KN	possibly damaging
rs7256437	NP_079465	P	S	PS	benign
rs7256696	XP_371165	S	F	SF	benign
rs7256712	XP_375558	M	T	MT	benign
rs7256787	NP_775754	K	Q	KQ	benign
rs7256789	NP_000055	Q	R	QR	benign
rs7257461	NP_006342	S	T	ST	benign
rs7257948	NP_115823	D	E	DE	benign
rs7258015	NP_002153	G	R	GR	possibly damaging
rs7258088	NP_065879	A	G	AG	benign
rs7258248	XP_371200	L	P	LP	possibly damaging
rs7258368	NP_660276	V	M	VM	benign
rs7258517	NP_037492	F	V	FV	benign
rs7258951	NP_149121	P	T	PT	benign
rs7258963	XP_053966	V	A	VA	benign
rs7259039	NP_443116	W	G	WG	probably damaging
rs7259041	NP_056498	L	P	LP	benign
rs7259266	XP_085831	M	I	MI	benign
rs7259303	NP_078967	G	D	GD	possibly damaging
rs7259358	XP_375660	H	Y	HY	benign
rs7259684	XP_371139	K	E	KE	benign
rs7259700	NP_000914	L	P	LP	possibly damaging
rs7259721	XP_375558	K	N	KN	possibly damaging
rs7259845	XP_371139	T	A	TA	benign
rs7260332	NP_112490	S	T	ST	benign
rs7260508	XP_496314	R	H	RH	benign
rs7260518	XP_375558	S	G	SG	possibly damaging
rs7260579	NP_003314	A	T	AT	benign
rs7260582	XP_496319	Y	C	YC	probably damaging
rs7260784	NP_942093	P	T	PT	probably damaging
rs7263910	NP_002998	Q	R	QR	benign
rs7264086	NP_004767	A	S	AS	benign
rs7264544	NP_002242	Q	R	QR	benign
rs7265854	NP_699191	Y	H	YH	possibly damaging
rs7265902	NP_699191	R	Q	RQ	benign
rs7266677	NP_002651	A	V	AV	benign
rs7266677	NP_877963	A	V	AV	benign
rs7267202	NP_787073	E	K	EK	benign
rs7268389	NP_113671	D	V	DV	probably damaging
rs7269297	NP_055299	S	A	SA	benign
rs7269579	NP_005551	V	L	VL	benign
rs7270526	NP_002998	E	Q	EQ	benign
rs7271583	NP_065871	R	C	RC	probably damaging
rs7272354	NP_003425	G	R	GR	benign
rs7272669	NP_003425	S	N	SN	benign
rs7273455	NP_997004	A	P	AP	benign

rs7273482	XP_371398	V	E	VE	probably damaging
rs7273698	NP_690593	R	W	RW	possibly damaging
rs7274519	NP_006233	R	C	RC	probably damaging
rs7277175	NP_006022	Q	R	QR	benign
rs7277425	XP_375931	V	G	VG	possibly damaging
rs7277917	NP_067042	L	F	LF	benign
rs7278340	NP_005119	S	L	SL	possibly damaging
rs7278825	NP_919231	A	V	AV	benign
rs7279064	NP_000865	F	V	FV	benign
rs7279064	NP_997467	F	V	FV	benign
rs7279064	NP_997468	F	V	FV	benign
rs7279204	NP_006022	R	C	RC	possibly damaging
rs7279701	XP_375931	D	G	DG	possibly damaging
rs7280643	NP_658983	H	R	HR	possibly damaging
rs7280841	NP_859016	V	I	VI	benign
rs7280902	XP_497781	T	A	TA	benign
rs7281915	XP_375931	T	A	TA	benign
rs7282594	NP_387510	P	S	PS	benign
rs7282630	XP_375936	R	K	RK	benign
rs7283272	NP_001840	V	L	VL	benign
rs7283507	NP_996772	P	A	PA	possibly damaging
rs7283507	NP_996774	P	A	PA	possibly damaging
rs7283507	NP_996773	P	A	PA	possibly damaging
rs7284177	NP_115997	G	S	GS	benign
rs7284524	NP_003316	C	S	CS	benign
rs7285167	NP_663612	R	C	RC	possibly damaging
rs7285319	NP_001420	P	H	PH	probably damaging
rs7287089	NP_055061	R	P	RP	benign
rs7288201	NP_004112	I	V	IV	benign
rs7290488	NP_114116	G	D	GD	benign
rs7290488	NP_872292	G	D	GD	benign
rs7290694	NP_006062	K	R	KR	benign
rs7291048	XP_376008	A	V	AV	benign
rs7291444	NP_006062	T	P	TP	benign
rs7291633	NP_000487	H	L	HL	probably damaging
rs7291910	XP_018487	P	R	PR	possibly damaging
rs7292212	NP_741999	A	D	AD	benign
rs7292419	XP_496520	S	P	SP	possibly damaging
rs7292477	XP_170994	A	D	AD	benign
rs7292659	NP_110434	D	N	DN	benign
rs7294691	XP_292012	L	F	LF	possibly damaging
rs7295376	NP_060479	G	R	GR	possibly damaging
rs7295646	NP_689803	P	H	PH	probably damaging
rs7295804	XP_495909	E	K	EK	benign
rs7296162	XP_045423	S	L	SL	possibly damaging
rs7297122	NP_116203	T	M	TM	possibly damaging



rs7297245	NP_002099	V	I	VI	benign
rs7297413	NP_149034	G	R	GR	probably damaging
rs7297912	XP_497330	G	R	GR	possibly damaging
rs7298124	XP_495908	S	I	SI	benign
rs7298565	NP_904323	R	Q	RQ	benign
rs7298565	NP_904324	R	Q	RQ	benign
rs7298565	NP_569733	R	Q	RQ	benign
rs7298766	NP_775864	R	K	RK	benign
rs7299217	NP_057280	E	Q	EQ	benign
rs7300096	XP_208080	D	Y	DY	probably damaging
rs7300972	NP_002997	M	V	MV	benign
rs7301414	NP_061907	M	L	ML	possibly damaging
rs7301923	XP_495919	C	Y	CY	benign
rs7301926	NP_919337	K	R	KR	possibly damaging
rs7301926	NP_001971	K	R	KR	possibly damaging
rs7302230	NP_055533	S	G	SG	benign
rs7302968	NP_778238	T	M	TM	benign
rs7302981	NP_671723	C	R	CR	possibly damaging
rs7304054	NP_787070	K	R	KR	benign
rs7304974	XP_209597	R	Q	RQ	benign
rs7305024	NP_115523	E	Q	EQ	benign
rs7305327	XP_498535	D	G	DG	possibly damaging
rs7305779	XP_497345	E	A	EA	possibly damaging
rs7306491	XP_497345	R	H	RH	benign
rs7306642	NP_060034	P	T	PT	benign
rs7307331	NP_061959	H	Y	HY	benign
rs7307415	NP_689530	H	R	HR	possibly damaging
rs7307426	XP_292085	P	L	PL	probably damaging
rs7307702	NP_009128	D	E	DE	benign
rs7307793	XP_374989	R	H	RH	benign
rs7308720	XP_058513	N	K	NK	benign
rs7308853	NP_004849	N	S	NS	benign
rs7309149	XP_495912	P	R	PR	probably damaging
rs7309831	NP_938079	V	I	VI	benign
rs7310138	NP_542785	D	E	DE	benign
rs7310837	XP_012219	M	I	MI	probably damaging
rs7310898	NP_055523	P	L	PL	probably damaging
rs7311122	NP_715624	G	V	GV	benign
rs7311122	NP_631874	G	V	GV	possibly damaging
rs7311122	NP_631875	G	V	GV	possibly damaging
rs7311358	NP_062818	M	I	MI	benign
rs7311877	NP_005328	T	A	TA	benign
rs7311986	NP_116218	S	I	SI	benign
rs7313020	NP_005495	E	K	EK	benign
rs7314976	NP_808219	R	C	RC	possibly damaging
rs7315516	NP_149022	Y	N	YN	probably damaging

rs7315591	NP_653271	T	A	TA	benign
rs7315685	NP_060933	D	N	DN	benign
rs7315692	XP_374987	I	V	IV	benign
rs7315731	NP_004710	F	Y	FY	benign
rs7315923	XP_495917	C	F	CF	benign
rs7316147	XP_495917	C	W	CW	benign
rs7317245	NP_689932	K	E	KE	benign
rs7317291	XP_497370	M	I	MI	benign
rs7318420	NP_808882	P	R	PR	probably damaging
rs7319493	NP_060375	A	T	AT	benign
rs7320209	NP_055885	S	C	SC	benign
rs7320366	NP_003841	S	T	ST	benign
rs7321457	NP_055902	R	Q	RQ	benign
rs7322326	XP_495963	E	K	EK	benign
rs7323148	NP_758961	T	I	TI	possibly damaging
rs7324275	NP_060039	M	V	MV	possibly damaging
rs7324704	XP_062912	S	L	SL	benign
rs7327901	XP_495949	R	C	RC	possibly damaging
rs7327915	XP_292193	V	M	VM	benign
rs7328155	NP_001667	E	K	EK	possibly damaging
rs7329939	XP_292193	L	V	LV	benign
rs7330220	NP_008946	V	I	VI	benign
rs7330736	NP_694568	R	W	RW	possibly damaging
rs7330808	XP_062912	E	D	ED	benign
rs7331070	NP_003282	R	Q	RQ	benign
rs7332388	NP_055768	T	R	TR	benign
rs7333040	NP_005923	G	S	GS	benign
rs7333044	XP_495965	H	P	HP	probably damaging
rs7334118	NP_000044	H	R	HR	probably damaging
rs7334587	NP_006428	A	V	AV	benign
rs7334868	XP_062890	R	H	RH	benign
rs7335867	NP_060674	V	I	VI	benign
rs7336216	NP_060921	D	H	DH	benign
rs7337071	XP_166966	G	E	GE	possibly damaging
rs7338624	NP_060463	E	D	ED	benign
rs7339904	NP_055672	S	G	SG	benign
rs7339962	XP_496332	G	R	GR	possibly damaging
rs7340007	NP_006104	P	L	PL	probably damaging
rs7340191	XP_497879	G	V	GV	probably damaging
rs7340192	XP_497879	G	R	GR	possibly damaging
rs7340197	XP_497879	A	S	AS	benign
rs7340213	XP_497879	R	H	RH	possibly damaging
rs7340499	XP_497879	D	E	DE	benign
rs7341749	NP_056054	R	P	RP	possibly damaging
rs7342490	XP_370737	E	K	EK	benign
rs7342883	NP_001979	P	S	PS	possibly damaging

rs7343043	NP_005122	P	L	PL	possibly damaging
rs7343101	NP_775801	R	I	RI	probably damaging
rs7343500	NP_001307	D	E	DE	benign
rs7343858	NP_056470	P	L	PL	probably damaging
rs7344681	NP_114423	E	G	EG	possibly damaging
rs7345355	NP_055091	S	P	SP	possibly damaging
rs7346502	NP_060622	I	T	IT	possibly damaging
rs7346635	NP_056326	T	P	TP	possibly damaging
rs7348121	NP_110404	I	V	IV	benign
rs7349185	NP_996809	C	Y	CY	benign
rs7349185	NP_065184	C	Y	CY	probably damaging
rs7349186	NP_115785	P	L	PL	probably damaging
rs7349198	XP_497879	G	E	GE	possibly damaging
rs7349215	XP_497879	V	I	VI	benign
rs7349216	XP_497879	G	R	GR	possibly damaging
rs7349364	XP_497879	R	C	RC	probably damaging
rs7349365	XP_497879	A	V	AV	benign
rs7349446	XP_497879	V	A	VA	benign
rs7350203	XP_372190	T	A	TA	benign
rs7350889	NP_001247	G	D	GD	possibly damaging
rs7350899	NP_004932	N	S	NS	possibly damaging
rs7350908	NP_001247	P	S	PS	probably damaging
rs7350956	NP_612364	T	R	TR	benign
rs7350974	NP_612364	V	M	VM	benign
rs7351141	NP_710141	L	P	LP	probably damaging
rs7351196	NP_115597	G	S	GS	benign
rs7351440	NP_006517	K	Q	KQ	benign
rs7352110	NP_861516	R	G	RG	probably damaging
rs7352110	NP_861518	R	G	RG	probably damaging
rs7352233	NP_848578	E	G	EG	benign
rs7352422	NP_006029	L	M	LM	benign
rs7353222	NP_060667	Q	P	QP	benign
rs7353222	NP_955458	Q	P	QP	benign
rs7353222	NP_955459	Q	P	QP	benign
rs7353222	NP_071371	Q	P	QP	possibly damaging
rs7353635	NP_000205	I	T	IT	possibly damaging
rs7354578	NP_787044	A	S	AS	benign
rs7354578	NP_787045	A	S	AS	benign
rs7354578	NP_787046	A	S	AS	benign
rs7354578	NP_008823	A	S	AS	benign
rs7354779	NP_787063	R	G	RG	possibly damaging
rs7354779	NP_037501	R	G	RG	possibly damaging
rs7355686	XP_497879	E	V	EV	benign
rs7355689	XP_497879	M	V	MV	benign
rs7355766	XP_497879	F	L	FL	benign
rs7355811	NP_115731	G	S	GS	benign

rs7356031	NP_705615	Y	C	YC	probably damaging
rs7356031	NP_705616	Y	C	YC	probably damaging
rs7356932	NP_598000	G	S	GS	possibly damaging
rs7356934	NP_002903	P	L	PL	probably damaging
rs7357607	XP_497051	M	L	ML	benign
rs7357825	XP_373340	R	K	RK	benign
rs7357849	XP_377073	D	E	DE	benign
rs7358374	XP_370652	R	K	RK	benign
rs7358608	XP_495908	R	H	RH	benign
rs7358609	XP_495908	G	S	GS	benign
rs7358652	NP_006304	G	S	GS	benign
rs7359096	NP_065869	G	S	GS	benign
rs7361799	NP_612140	T	A	TA	benign
rs7362309	NP_787073	G	R	GR	possibly damaging
rs7362579	NP_787060	W	G	WG	probably damaging
rs7362890	NP_612815	V	G	VG	possibly damaging
rs7363039	NP_443202	V	G	VG	possibly damaging
rs7363169	XP_066058	E	G	EG	possibly damaging
rs7365216	XP_496343	M	L	ML	possibly damaging
rs7365216	XP_496345	M	L	ML	possibly damaging
rs7366490	XP_496394	P	H	PH	probably damaging
rs7366933	XP_057040	D	N	DN	benign
rs7367494	NP_000076	V	A	VA	benign
rs7373165	NP_149018	E	D	ED	benign
rs7374710	NP_004757	V	G	VG	probably damaging
rs7376200	NP_004468	S	R	SR	possibly damaging
rs7376390	NP_060286	R	H	RH	benign
rs7378066	NP_003643	T	I	TI	benign
rs7379817	XP_498030	V	A	VA	benign
rs7380781	XP_498030	E	K	EK	benign
rs7380824	NP_938023	R	Q	RQ	benign
rs7381749	NP_055554	N	S	NS	benign
rs7386562	XP_294387	H	R	HR	probably damaging
rs7386782	XP_070277	S	G	SG	benign
rs7386783	XP_070277	N	D	ND	benign
rs7388581	XP_044727	P	A	PA	benign
rs7394584	XP_372361	L	R	LR	probably damaging
rs7395065	XP_374860	F	L	FL	benign
rs7395988	NP_066025	Q	H	QH	possibly damaging
rs7396383	XP_290540	N	I	NI	possibly damaging
rs7396938	XP_372361	N	I	NI	possibly damaging
rs7397032	XP_370605	C	R	CR	probably damaging
rs7397167	NP_002323	P	Q	PQ	possibly damaging
rs7397266	NP_005438	A	T	AT	benign
rs7406116	NP_932348	Q	R	QR	benign
rs7406910	NP_004493	A	T	AT	possibly damaging

rs7410250	XP_375931	R	Q	RQ	benign
rs7410919	NP_002284	P	L	PL	probably damaging
rs7411539	XP_496391	I	M	IM	benign
rs7411539	XP_375869	I	M	IM	benign
rs7412488	NP_004276	P	H	PH	probably damaging
rs7412762	NP_003585	S	N	SN	benign
rs7412792	XP_371269	L	V	LV	benign
rs7412854	NP_001277	L	M	LM	benign
rs7415167	NP_775179	V	G	VG	possibly damaging
rs7415178	NP_115633	T	P	TP	benign
rs7416235	NP_060555	L	P	LP	possibly damaging
rs7416402	NP_000806	S	P	SP	benign
rs7416492	NP_056473	L	V	LV	benign
rs7416672	NP_077007	S	I	SI	possibly damaging
rs7416842	NP_683706	G	A	GA	benign
rs7416842	NP_683707	G	A	GA	benign
rs7416842	NP_078862	G	A	GA	benign
rs7417006	NP_055642	R	K	RK	benign
rs7417079	XP_378840	T	M	TM	benign
rs7417535	XP_496348	Y	C	YC	probably damaging
rs7418622	XP_371328	S	N	SN	benign
rs7419077	XP_496343	C	S	CS	probably damaging
rs7419099	XP_496343	C	Y	CY	possibly damaging
rs7419099	XP_496345	C	Y	CY	possibly damaging
rs7420093	NP_036609	C	W	CW	probably damaging
rs7420371	NP_776182	E	G	EG	possibly damaging
rs7422339	NP_001866	T	N	TN	possibly damaging
rs7422680	XP_041126	T	A	TA	benign
rs7424266	NP_115544	G	A	GA	possibly damaging
rs7424328	NP_057047	G	S	GS	benign
rs7424352	NP_848625	M	V	MV	benign
rs7425188	NP_059522	V	E	VE	possibly damaging
rs7425188	NP_001608	V	E	VE	probably damaging
rs7425801	NP_005226	E	G	EG	possibly damaging
rs7425881	XP_497833	E	V	EV	possibly damaging
rs7426058	NP_079415	D	E	DE	benign
rs7426114	NP_004534	M	V	MV	benign
rs7426606	NP_002283	Q	H	QH	possibly damaging
rs7428128	NP_115731	E	Q	EQ	benign
rs7429157	NP_078886	A	D	AD	possibly damaging
rs7430328	NP_004148	E	K	EK	possibly damaging
rs7430460	XP_087386	V	E	VE	benign
rs7432551	NP_075555	A	G	AG	benign
rs7433088	NP_060659	S	F	SF	benign
rs7433231	NP_002438	G	S	GS	benign
rs7435825	NP_000573	S	N	SN	benign

rs7436378	NP_005381	R	K	RK	possibly damaging
rs7436590	XP_496692	D	A	DA	possibly damaging
rs7437875	NP_000195	E	Q	EQ	benign
rs7437926	XP_376318	M	T	MT	benign
rs7439186	NP_057603	A	V	AV	benign
rs7439366	NP_001065	H	Y	HY	probably damaging
rs7439520	XP_496692	A	T	AT	benign
rs7439869	NP_064544	A	V	AV	benign
rs7440485	NP_004468	T	S	TS	benign
rs7442098	NP_055146	T	S	TS	benign
rs7445271	NP_006252	S	N	SN	benign
rs7445471	NP_061760	V	E	VE	benign
rs7447092	NP_001173	V	A	VA	possibly damaging
rs7449840	NP_689901	G	A	GA	possibly damaging
rs7449864	XP_371841	W	L	WL	probably damaging
rs7451102	NP_001892	D	H	DH	probably damaging
rs7451713	XP_376503	H	Q	HQ	probably damaging
rs7452785	NP_008989	E	G	EG	probably damaging
rs7453944	NP_002502	M	L	ML	benign
rs7454756	NP_060110	A	G	AG	benign
rs7455729	XP_376591	E	K	EK	benign
rs7456452	NP_570857	L	H	LH	benign
rs7456452	NP_570858	L	H	LH	benign
rs7456452	NP_002838	L	H	LH	benign
rs7456504	NP_005036	Q	H	QH	possibly damaging
rs7456504	NP_774959	Q	H	QH	possibly damaging
rs7457245	NP_004435	A	D	AD	benign
rs7457437	NP_001859	S	Y	SY	benign
rs7457608	NP_219499	S	C	SC	possibly damaging
rs7458199	XP_496869	S	C	SC	benign
rs7459224	XP_496936	Y	C	YC	probably damaging
rs7459439	NP_055096	A	V	AV	benign
rs7459439	NP_510965	A	V	AV	benign
rs7461080	XP_498300	A	D	AD	benign
rs7461080	XP_378043	D	A	DA	possibly damaging
rs7461970	NP_057026	E	G	EG	possibly damaging
rs7463816	XP_051271	S	N	SN	benign
rs7463888	NP_004736	T	M	TM	benign
rs7464291	NP_060538	N	I	NI	probably damaging
rs7464560	NP_037489	E	K	EK	benign
rs7466798	XP_054983	E	A	EA	possibly damaging
rs7467660	NP_150090	V	A	VA	benign
rs7467660	NP_150089	V	A	VA	benign
rs7469920	NP_001597	V	A	VA	benign
rs7469920	NP_997698	V	A	VA	benign
rs7470764	NP_689499	A	P	AP	benign

rs7474275	NP_000052	W	G	WG	probably damaging
rs7478041	XP_290462	E	K	EK	benign
rs7478486	NP_510869	N	I	NI	possibly damaging
rs7478486	NP_510868	N	I	NI	possibly damaging
rs7478486	NP_057651	N	I	NI	possibly damaging
rs7478799	NP_542392	L	F	LF	benign
rs7479477	XP_372353	R	H	RH	possibly damaging
rs7481466	NP_694569	V	A	VA	benign
rs7481521	XP_290540	V	M	VM	benign
rs7481951	NP_998764	L	F	LF	benign
rs7482504	XP_497281	R	C	RC	possibly damaging
rs7482965	NP_612202	F	Y	FY	benign
rs7483122	XP_372353	I	T	IT	probably damaging
rs7483314	NP_055199	L	V	LV	benign
rs7483525	XP_171528	G	A	GA	benign
rs7484157	NP_001019	N	K	NK	possibly damaging
rs7484937	NP_005438	R	T	RT	possibly damaging
rs7487311	NP_055134	D	Y	DY	probably damaging
rs7487586	NP_071941	P	A	PA	probably damaging
rs7487683	NP_602296	G	R	GR	possibly damaging
rs7488179	NP_005759	S	T	ST	benign
rs7488262	NP_775489	D	E	DE	benign
rs7488416	XP_497350	Q	H	QH	benign
rs7488798	NP_550433	Q	R	QR	possibly damaging
rs7489637	XP_375041	R	W	RW	possibly damaging
rs7490338	XP_495963	V	G	VG	probably damaging
rs7491932	NP_443142	L	M	LM	benign
rs7495616	NP_055087	G	A	GA	benign
rs7496176	XP_370826	A	V	AV	benign
rs7496668	NP_620688	S	L	SL	benign
rs7497438	NP_115572	A	S	AS	benign
rs7497617	NP_004127	P	L	PL	probably damaging
rs7497814	XP_085234	L	I	LI	benign
rs7498144	NP_057368	L	R	LR	benign
rs7498144	NP_996882	L	R	LR	benign
rs7498256	NP_071445	Q	H	QH	possibly damaging
rs7498376	XP_370992	Y	C	YC	probably damaging
rs7498509	XP_496122	V	L	VL	benign
rs7498598	XP_496122	E	D	ED	benign
rs7498665	NP_056318	A	T	AT	benign
rs7498959	XP_496122	M	T	MT	benign
rs7499664	NP_663760	A	T	AT	benign
rs7499664	NP_680780	A	T	AT	benign
rs7499664	NP_680781	A	T	AT	benign
rs7499664	NP_680782	A	T	AT	benign
rs7499664	NP_009176	A	T	AT	benign

rs7501023	NP_001472	F	L	FL	possibly damaging
rs7501331	NP_059125	A	V	AV	benign
rs7501608	NP_981945	T	S	TS	benign
rs7501847	XP_042698	Y	C	YC	probably damaging
rs7502059	NP_009230	A	V	AV	benign
rs7502059	NP_009231	A	V	AV	benign
rs7502059	NP_009232	A	V	AV	benign
rs7502059	NP_009233	A	V	AV	benign
rs7502059	NP_009228	A	V	AV	benign
rs7503034	NP_000190	R	H	RH	benign
rs7503373	NP_065804	G	E	GE	benign
rs7503661	NP_085133	S	F	SF	possibly damaging
rs7503669	NP_742084	A	V	AV	benign
rs7503669	NP_742085	A	V	AV	benign
rs7503669	NP_003799	A	V	AV	benign
rs7503669	NP_742086	A	V	AV	benign
rs7505568	XP_496269	C	R	CR	probably damaging
rs7507268	NP_005806	D	N	DN	benign
rs7507533	NP_009078	S	T	ST	benign
rs7507757	NP_005026	A	T	AT	benign
rs7508059	XP_375590	T	A	TA	benign
rs7508494	XP_375590	E	K	EK	possibly damaging
rs7508547	XP_371198	Y	C	YC	probably damaging
rs7508641	NP_849159	G	W	GW	benign
rs7508653	NP_974223	E	Q	EQ	benign
rs7508667	XP_375593	D	N	DN	benign
rs7508676	NP_000518	V	A	VA	benign
rs7508949	NP_057736	R	G	RG	possibly damaging
rs7509261	NP_006800	W	S	WS	probably damaging
rs7509382	NP_002827	S	Y	SY	possibly damaging
rs7509382	NP_543031	S	Y	SY	possibly damaging
rs7509466	NP_008817	E	K	EK	benign
rs7509902	NP_006022	T	S	TS	benign
rs7509970	NP_941967	Y	C	YC	benign
rs7510469	XP_375931	T	M	TM	benign
rs7510719	NP_001987	V	D	VD	possibly damaging
rs7510719	NP_006476	V	D	VD	probably damaging
rs7510719	NP_006477	V	D	VD	probably damaging
rs7510719	NP_006478	V	D	VD	probably damaging
rs7511038	NP_003495	H	R	HR	possibly damaging
rs7511294	NP_036539	D	V	DV	possibly damaging
rs7511430	XP_038520	Q	H	QH	possibly damaging
rs7511651	XP_371222	R	C	RC	possibly damaging
rs7512553	XP_048104	Y	H	YH	possibly damaging
rs7512625	NP_060557	D	H	DH	possibly damaging
rs7512857	XP_048104	S	A	SA	benign



rs7512943	NP_003259	L	F	LF	benign
rs7513609	XP_208234	Q	E	QE	benign
rs7514102	NP_115790	V	I	VI	benign
rs7516785	NP_001516	R	Q	RQ	benign
rs7516919	NP_065859	M	L	ML	benign
rs7518080	XP_378901	R	H	RH	benign
rs7518979	NP_689704	I	T	IT	benign
rs7519660	NP_005738	H	N	HN	possibly damaging
rs7520249	XP_373868	D	N	DN	benign
rs7520375	XP_373868	R	Q	RQ	benign
rs7520509	XP_497697	D	E	DE	benign
rs7520704	NP_004111	S	G	SG	benign
rs7521578	XP_060957	T	I	TI	possibly damaging
rs7522061	NP_443171	N	D	ND	benign
rs7522194	NP_149118	Q	H	QH	possibly damaging
rs7522332	XP_371230	H	R	HR	possibly damaging
rs7522925	XP_048104	A	V	AV	benign
rs7523466	XP_034086	D	G	DG	possibly damaging
rs7523552	XP_034086	N	Y	NY	probably damaging
rs7524148	NP_001432	A	T	AT	probably damaging
rs7524261	NP_000072	L	V	LV	benign
rs7524529	XP_497745	A	T	AT	benign
rs7525401	XP_371340	C	R	CR	probably damaging
rs7525482	XP_496394	E	V	EV	possibly damaging
rs7525572	XP_496365	L	W	LW	benign
rs7525705	NP_064512	S	N	SN	benign
rs7526045	XP_496394	R	Q	RQ	benign
rs7526132	NP_857595	A	G	AG	benign
rs7526621	XP_496691	E	D	ED	benign
rs7526769	NP_001550	T	I	TI	possibly damaging
rs7526812	NP_115667	R	K	RK	benign
rs7527017	NP_005003	M	T	MT	benign
rs7528067	NP_079341	M	I	MI	benign
rs7528153	NP_006104	S	T	ST	benign
rs7528360	NP_653300	M	I	MI	benign
rs7528405	NP_031378	R	W	RW	benign
rs7528827	NP_060606	H	R	HR	probably damaging
rs7529463	NP_002996	R	H	RH	possibly damaging
rs7530018	XP_048104	A	G	AG	benign
rs7530267	XP_375869	D	A	DA	benign
rs7530511	NP_653302	L	P	LP	probably damaging
rs7531012	XP_371338	P	S	PS	probably damaging
rs7531852	XP_497745	E	G	EG	possibly damaging
rs7532025	XP_372840	V	M	VM	benign
rs7532025	XP_060417	M	V	MV	probably damaging
rs7532285	XP_378901	Q	R	QR	benign

rs7532463	XP_371230	S	T	ST	benign
rs7532736	XP_048104	S	Y	SY	possibly damaging
rs7532933	NP_689702	I	T	IT	possibly damaging
rs7533345	NP_055964	E	K	EK	benign
rs7533552	NP_001843	Q	R	QR	benign
rs7535142	NP_899228	T	I	TI	benign
rs7535524	NP_003585	K	R	KR	benign
rs7535528	NP_060686	A	V	AV	benign
rs7535533	NP_853550	I	V	IV	benign
rs7535536	XP_373868	I	T	IT	benign
rs7536086	NP_000636	G	R	GR	possibly damaging
rs7536086	NP_000637	G	R	GR	possibly damaging
rs7536086	NP_000635	G	R	GR	possibly damaging
rs7536561	NP_203129	N	S	NS	benign
rs7536645	NP_003559	T	A	TA	benign
rs7537147	XP_378901	R	C	RC	probably damaging
rs7537203	NP_071394	N	S	NS	benign
rs7537937	NP_004111	P	A	PA	benign
rs7538516	XP_209234	R	C	RC	probably damaging
rs7540123	XP_378901	Q	E	QE	benign
rs7540883	NP_998818	A	G	AG	benign
rs7541041	NP_000072	T	M	TM	benign
rs7541738	NP_940861	E	D	ED	benign
rs7542365	NP_003559	R	Q	RQ	benign
rs7542609	NP_071403	E	D	ED	benign
rs7542760	NP_002635	T	I	TI	possibly damaging
rs7545406	XP_373868	T	K	TK	benign
rs7545520	NP_005538	V	L	VL	benign
rs7545855	NP_892017	S	P	SP	benign
rs7546186	XP_048104	S	T	ST	benign
rs7546381	NP_659414	V	M	VM	benign
rs7549352	NP_653300	V	M	VM	benign
rs7549483	XP_049695	Q	H	QH	possibly damaging
rs7549921	NP_001391	P	R	PR	benign
rs7550131	XP_060952	S	P	SP	possibly damaging
rs7550295	NP_055759	A	T	AT	benign
rs7550323	XP_497712	Y	H	YH	possibly damaging
rs7550857	NP_689698	L	F	LF	benign
rs7550997	NP_073615	A	T	AT	benign
rs7551068	NP_000293	E	D	ED	benign
rs7551108	NP_060606	T	S	TS	benign
rs7551131	NP_848622	T	M	TM	benign
rs7551175	NP_000293	A	T	AT	benign
rs7551261	NP_115704	P	L	PL	probably damaging
rs7552286	XP_034086	V	L	VL	benign
rs7552626	XP_496343	S	N	SN	benign

rs7552626	XP_496345	S	N	SN	benign
rs7553399	XP_031401	R	L	RL	benign
rs7553628	NP_003359	A	T	AT	benign
rs7553800	NP_067649	N	K	NK	possibly damaging
rs7555046	NP_997197	C	R	CR	probably damaging
rs7555310	XP_372827	V	A	VA	possibly damaging
rs7555330	XP_497697	I	T	IT	probably damaging
rs7555424	XP_372827	F	L	FL	probably damaging
rs7556132	NP_002284	V	I	VI	benign
rs7556485	NP_001769	P	L	PL	probably damaging
rs7558074	NP_056988	T	K	TK	benign
rs7558525	XP_371605	G	R	GR	possibly damaging
rs7559279	NP_001622	R	H	RH	benign
rs7559772	NP_620158	R	K	RK	benign
rs7560008	NP_056472	S	T	ST	benign
rs7560008	NP_775099	S	T	ST	benign
rs7560262	NP_003194	N	S	NS	benign
rs7561584	NP_775491	M	L	ML	possibly damaging
rs7562391	NP_115861	D	E	DE	benign
rs7562391	NP_572028	D	E	DE	benign
rs7564067	XP_209429	V	A	VA	benign
rs7564372	NP_115589	R	C	RC	possibly damaging
rs7565062	NP_002967	N	T	NT	benign
rs7565275	NP_000532	I	V	IV	benign
rs7566476	XP_496553	S	T	ST	benign
rs7567833	NP_954705	H	R	HR	benign
rs7567833	NP_076932	H	R	HR	benign
rs7568529	NP_722577	H	Y	HY	benign
rs7568553	NP_063938	A	G	AG	benign
rs7570176	XP_497871	D	H	DH	possibly damaging
rs7570797	NP_620414	S	G	SG	benign
rs7572392	XP_371605	V	G	VG	possibly damaging
rs7572799	NP_976221	V	I	VI	benign
rs7572857	NP_055962	S	G	SG	benign
rs7572946	NP_061027	L	F	LF	benign
rs7574414	NP_079071	V	A	VA	benign
rs7575451	NP_004534	P	A	PA	probably damaging
rs7576247	NP_004291	Q	R	QR	benign
rs7576247	NP_009030	Q	R	QR	benign
rs7578199	NP_976221	N	S	NS	benign
rs7578597	NP_940956	T	A	TA	benign
rs7578597	NP_071348	T	A	TA	benign
rs7578912	NP_919288	R	Q	RQ	benign
rs7580167	XP_496601	I	V	IV	benign
rs7580439	NP_056477	V	L	VL	benign
rs7580926	NP_079295	Q	K	QK	benign

rs7582826	NP_071769	D	H	DH	benign
rs7584376	XP_371605	P	H	PH	probably damaging
rs7586984	NP_006498	R	H	RH	possibly damaging
rs7587534	NP_659429	K	R	KR	benign
rs7588124	NP_057336	T	N	TN	benign
rs7588159	XP_496606	I	T	IT	possibly damaging
rs7588635	NP_006334	A	T	AT	benign
rs7588682	XP_371534	H	N	HN	benign
rs7589195	XP_092553	V	L	VL	benign
rs7590429	NP_612411	P	S	PS	possibly damaging
rs7590838	NP_064528	G	A	GA	benign
rs7591107	XP_496606	I	T	IT	possibly damaging
rs7591371	NP_005406	K	T	KT	benign
rs7591849	NP_689741	S	R	SR	benign
rs7592352	NP_002185	T	A	TA	benign
rs7592429	NP_079029	A	T	AT	benign
rs7593622	NP_057737	R	W	RW	probably damaging
rs7594480	NP_660302	I	V	IV	benign
rs7594481	XP_092553	L	P	LP	probably damaging
rs7594497	NP_149100	N	D	ND	benign
rs7594971	NP_079295	R	C	RC	benign
rs7595010	NP_079029	K	R	KR	benign
rs7597367	NP_057594	K	E	KE	benign
rs7598922	NP_945314	N	S	NS	benign
rs7601000	NP_037457	L	Q	LQ	benign
rs7601000	NP_847896	L	Q	LQ	benign
rs7601049	NP_659429	V	L	VL	benign
rs7601509	NP_116107	A	S	AS	benign
rs7601771	XP_371487	H	D	HD	possibly damaging
rs7602159	NP_620159	T	P	TP	benign
rs7602744	NP_620154	R	Q	RQ	benign
rs7604639	NP_006334	R	K	RK	benign
rs7607246	XP_496606	N	S	NS	benign
rs7607759	NP_075571	T	A	TA	benign
rs7607980	NP_055715	N	D	ND	benign
rs7608121	NP_115519	R	Q	RQ	benign
rs7610425	XP_374057	S	G	SG	benign
rs7610574	NP_112146	I	T	IT	benign
rs7612972	NP_002069	R	Q	RQ	benign
rs7614751	NP_653319	R	G	RG	possibly damaging
rs7614835	NP_000304	R	L	RL	probably damaging
rs7615357	XP_171032	S	L	SL	possibly damaging
rs7616879	XP_371668	T	K	TK	benign
rs7617376	XP_377820	P	H	PH	possibly damaging
rs7617704	NP_003289	F	L	FL	benign
rs7618609	NP_078937	F	S	FS	benign

rs7618988	XP_371668	R	Q	RQ	benign
rs7619322	NP_849144	Y	D	YD	probably damaging
rs7619912	NP_060608	K	R	KR	benign
rs7621322	NP_996846	D	G	DG	possibly damaging
rs7622799	NP_004982	P	S	PS	benign
rs7623258	NP_003839	R	W	RW	possibly damaging
rs7624011	NP_849144	H	Y	HY	benign
rs7624748	XP_371661	P	A	PA	benign
rs7624750	NP_570847	N	S	NS	benign
rs7624750	NP_570849	N	S	NS	benign
rs7624750	NP_570850	N	S	NS	benign
rs7624750	NP_056375	N	S	NS	benign
rs7625806	NP_031361	L	R	LR	benign
rs7625806	NP_031363	L	R	LR	benign
rs7625806	NP_031364	L	R	LR	benign
rs7625806	NP_031362	L	R	LR	benign
rs7626962	NP_932173	S	Y	SY	benign
rs7626962	NP_000326	S	Y	SY	possibly damaging
rs7627615	NP_872395	A	T	AT	benign
rs7627924	NP_689886	C	S	CS	probably damaging
rs7628051	NP_079199	A	T	AT	benign
rs7628349	XP_371668	N	S	NS	benign
rs7628368	NP_056227	S	P	SP	possibly damaging
rs7630214	NP_055951	P	A	PA	possibly damaging
rs7630989	NP_006505	S	P	SP	benign
rs7632072	XP_291055	T	A	TA	benign
rs7632885	NP_071414	I	V	IV	benign
rs7633228	NP_000149	T	A	TA	benign
rs7633387	NP_055508	H	Y	HY	benign
rs7633387	NP_115707	Y	H	YH	benign
rs7633550	NP_001613	V	L	VL	benign
rs7633797	XP_114301	L	P	LP	probably damaging
rs7634545	NP_003140	N	S	NS	benign
rs7634846	NP_870989	I	V	IV	benign
rs7634846	NP_870990	I	V	IV	benign
rs7634846	NP_000835	I	V	IV	benign
rs7635190	XP_171032	V	M	VM	benign
rs7636593	XP_371619	G	R	GR	possibly damaging
rs7637065	NP_284941	R	P	RP	possibly damaging
rs7637099	NP_000395	L	P	LP	benign
rs7637330	NP_060397	G	R	GR	probably damaging
rs7637330	NP_284941	G	R	GR	probably damaging
rs7637863	NP_000331	P	L	PL	benign
rs7639705	NP_055893	I	L	IL	benign
rs7641243	NP_620162	N	S	NS	benign
rs7642448	NP_877575	E	Q	EQ	benign

rs7642448	NP_667340	E	Q	EQ	benign
rs7643864	XP_498938	N	K	NK	benign
rs7645550	NP_055222	A	T	AT	benign
rs7645550	NP_741979	A	T	AT	benign
rs7645550	NP_741980	A	T	AT	benign
rs7645550	NP_741981	A	T	AT	benign
rs7645635	NP_005569	Y	H	YH	possibly damaging
rs7645720	XP_374057	R	W	RW	benign
rs7647642	NP_705615	S	T	ST	benign
rs7647642	NP_705616	S	T	ST	benign
rs7648496	NP_065941	K	R	KR	benign
rs7649715	NP_056241	T	M	TM	possibly damaging
rs7651620	NP_000852	G	E	GE	possibly damaging
rs7651738	XP_498938	V	I	VI	benign
rs7652177	NP_073600	S	T	ST	benign
rs7653405	XP_376653	G	R	GR	possibly damaging
rs7653897	NP_938022	A	V	AV	benign
rs7654193	NP_777612	K	R	KR	benign
rs7654410	XP_094074	E	K	EK	benign
rs7654853	NP_005949	I	T	IT	possibly damaging
rs7655268	XP_497982	I	V	IV	benign
rs7657817	XP_376328	V	I	VI	benign
rs7658300	NP_003319	H	R	HR	benign
rs7660807	NP_997722	N	S	NS	benign
rs7662013	XP_496725	R	G	RG	probably damaging
rs7665271	NP_689831	S	T	ST	benign
rs7666143	NP_068746	I	V	IV	benign
rs7666283	NP_060109	V	I	VI	benign
rs7666425	NP_060203	C	R	CR	probably damaging
rs7669418	NP_056011	I	V	IV	benign
rs7670111	XP_093839	I	V	IV	benign
rs7671168	NP_056002	P	S	PS	possibly damaging
rs7671281	NP_114095	I	T	IT	benign
rs7672073	XP_044178	R	P	RP	benign
rs7672707	NP_849155	V	A	VA	benign
rs7672710	NP_849155	I	T	IT	benign
rs7673905	NP_149991	E	D	ED	benign
rs7675987	NP_689753	L	S	LS	benign
rs7676916	NP_689611	R	Q	RQ	benign
rs7677237	XP_496710	M	T	MT	possibly damaging
rs7679116	NP_060785	S	G	SG	benign
rs7679116	NP_361014	S	G	SG	benign
rs7679941	NP_002917	I	V	IV	benign
rs7679941	NP_937872	I	V	IV	benign
rs7679941	NP_940834	I	V	IV	benign
rs7682260	NP_002090	S	L	SL	benign

rs7682296	NP_065926	Y	H	YH	benign
rs7682296	NP_116252	Y	H	YH	benign
rs7682296	NP_996672	Y	H	YH	benign
rs7683838	NP_065186	C	R	CR	probably damaging
rs7686065	XP_496715	R	Q	RQ	benign
rs7687256	NP_002090	G	E	GE	benign
rs7687296	NP_001319	V	L	VL	benign
rs7688262	NP_001064	R	Q	RQ	benign
rs7689099	NP_060718	P	R	PR	probably damaging
rs7689147	XP_094074	K	Q	KQ	benign
rs7689316	XP_497979	G	S	GS	benign
rs7689418	NP_005029	L	I	LI	benign
rs7690296	NP_006448	T	A	TA	benign
rs7690464	NP_006448	P	S	PS	probably damaging
rs7693453	NP_733828	C	S	CS	probably damaging
rs7696816	NP_060862	N	S	NS	benign
rs7697037	NP_001064	C	R	CR	probably damaging
rs7697482	NP_001064	S	P	SP	benign
rs7698598	XP_050219	T	A	TA	benign
rs7698628	NP_004675	A	D	AD	benign
rs7698680	NP_689988	L	M	LM	benign
rs7699637	NP_065926	P	S	PS	possibly damaging
rs7699637	NP_116252	P	S	PS	possibly damaging
rs7699637	NP_996672	P	S	PS	possibly damaging
rs7699687	NP_689988	P	Q	PQ	benign
rs7700801	NP_005500	I	M	IM	benign
rs7700833	NP_061993	A	V	AV	possibly damaging
rs7700858	NP_061993	L	M	LM	benign
rs7701579	NP_490645	T	M	TM	possibly damaging
rs7701579	NP_114139	T	M	TM	possibly damaging
rs7701755	NP_061729	S	I	SI	benign
rs7701755	NP_113685	S	I	SI	probably damaging
rs7703823	XP_498012	A	T	AT	benign
rs7705355	NP_872438	I	T	IT	possibly damaging
rs7705437	NP_055059	T	M	TM	possibly damaging
rs7706614	NP_057688	S	N	SN	benign
rs7707147	NP_699204	H	R	HR	benign
rs7709485	NP_919227	L	V	LV	benign
rs7709578	NP_060899	R	S	RS	benign
rs7710284	NP_079143	N	K	NK	benign
rs7713638	NP_000347	A	V	AV	benign
rs7713676	NP_919227	A	V	AV	benign
rs7714670	XP_371755	W	R	WR	probably damaging
rs7715021	NP_006042	G	R	GR	possibly damaging
rs7715021	NP_573418	G	R	GR	possibly damaging
rs7715021	NP_573420	G	R	GR	possibly damaging

rs7715021	NP_573419	G	R	GR	possibly damaging
rs7715021	NP_573421	G	R	GR	possibly damaging
rs7715021	NP_573422	G	R	GR	probably damaging
rs7715491	NP_115976	R	K	RK	benign
rs7718054	NP_001438	R	Q	RQ	benign
rs7718102	XP_094581	S	G	SG	benign
rs7718997	XP_209700	R	H	RH	possibly damaging
rs7719346	NP_071423	H	Y	HY	possibly damaging
rs7720149	NP_001436	L	H	LH	benign
rs7720480	NP_071916	D	N	DN	benign
rs7722711	NP_006624	V	A	VA	benign
rs7723543	XP_498018	G	V	GV	probably damaging
rs7724813	NP_079126	E	K	EK	benign
rs7724840	XP_293886	A	V	AV	benign
rs7726005	NP_002397	R	Q	RQ	benign
rs7726604	NP_932079	S	R	SR	possibly damaging
rs7726604	NP_006698	S	R	SR	possibly damaging
rs7726607	NP_932079	P	A	PA	possibly damaging
rs7726607	NP_006698	P	A	PA	possibly damaging
rs7726888	XP_016532	E	G	EG	probably damaging
rs7727472	NP_113683	P	T	PT	probably damaging
rs7727472	NP_113684	P	T	PT	probably damaging
rs7727472	NP_061728	P	T	PT	probably damaging
rs7727919	XP_376436	R	G	RG	possibly damaging
rs7728621	NP_076996	N	D	ND	benign
rs7728667	NP_872438	C	S	CS	benign
rs7729440	XP_498024	V	A	VA	benign
rs7729559	XP_498024	V	I	VI	benign
rs7730357	NP_490645	N	D	ND	benign
rs7730357	NP_114139	N	D	ND	benign
rs7731123	XP_209719	D	H	DH	benign
rs7731327	NP_113685	P	Q	PQ	benign
rs7731327	NP_061729	P	Q	PQ	benign
rs7731453	NP_036617	L	I	LI	benign
rs7731453	NP_036616	L	I	LI	benign
rs7732671	NP_573570	A	P	AP	benign
rs7732714	XP_371776	S	R	SR	benign
rs7733604	NP_001275	P	L	PL	probably damaging
rs7734523	XP_371783	G	V	GV	probably damaging
rs7734523	NP_775934	G	V	GV	probably damaging
rs7735338	NP_005860	P	A	PA	benign
rs7736541	NP_061739	A	V	AV	benign
rs7736541	NP_114400	A	V	AV	possibly damaging
rs7736723	NP_940969	M	V	MV	benign
rs7737306	NP_057724	V	I	VI	benign
rs7737542	NP_588612	T	N	TN	benign



rs7737765	NP_036466	Y	H	YH	possibly damaging
rs7738586	XP_498091	R	S	RS	benign
rs7739323	NP_944602	V	M	VM	benign
rs7739897	NP_061847	V	I	VI	benign
rs7741152	NP_598000	G	D	GD	benign
rs7742632	NP_115859	L	I	LI	benign
rs7742662	NP_598000	L	F	LF	benign
rs7743647	NP_004188	A	V	AV	benign
rs7743647	NP_115830	A	V	AV	benign
rs7744163	NP_004743	G	S	GS	benign
rs7744717	NP_872358	K	N	KN	benign
rs7744845	XP_371838	K	E	KE	benign
rs7745236	NP_001709	Q	E	QE	benign
rs7745238	NP_076923	G	D	GD	possibly damaging
rs7746261	NP_003135	S	L	SL	benign
rs7747479	NP_060404	G	V	GV	benign
rs7747948	XP_291154	P	L	PL	benign
rs7749199	NP_663779	T	M	TM	benign
rs7750596	XP_166443	R	Q	RQ	benign
rs7750799	XP_168055	Q	L	QL	possibly damaging
rs7750940	NP_006819	N	S	NS	benign
rs7751028	NP_006772	G	V	GV	probably damaging
rs7751270	NP_036523	R	C	RC	benign
rs7755960	XP_166372	S	Y	SY	possibly damaging
rs7756880	XP_371846	E	D	ED	benign
rs7756884	XP_371846	S	G	SG	possibly damaging
rs7757150	NP_787118	S	C	SC	benign
rs7757931	NP_006389	C	F	CF	probably damaging
rs7760248	NP_000829	R	K	RK	benign
rs7760374	XP_498157	E	V	EV	benign
rs7760656	XP_498064	M	K	MK	possibly damaging
rs7761137	NP_008989	S	N	SN	benign
rs7761731	NP_057677	N	K	NK	benign
rs7762875	NP_620306	L	H	LH	benign
rs7762875	NP_005933	L	H	LH	benign
rs7762875	NP_005934	L	H	LH	benign
rs7763565	NP_036309	L	F	LF	benign
rs7763726	XP_027658	T	A	TA	benign
rs7764091	NP_065073	S	A	SA	benign
rs7764472	NP_003313	R	T	RT	benign
rs7766366	NP_619639	T	A	TA	benign
rs7766366	NP_733842	T	A	TA	benign
rs7767176	NP_036499	V	I	VI	benign
rs7767260	NP_542171	R	H	RH	benign
rs7768224	NP_064570	R	H	RH	possibly damaging
rs7769409	NP_000491	R	W	RW	probably damaging

rs7769543	NP_065121	M	L	ML	benign
rs7769759	NP_937796	T	I	TI	benign
rs7770402	XP_373109	E	A	EA	benign
rs7770412	XP_371813	A	V	AV	benign
rs7771473	NP_057461	E	K	EK	benign
rs7773345	NP_006819	Y	C	YC	possibly damaging
rs7774330	NP_055595	S	G	SG	benign
rs7774845	XP_498157	V	L	VL	benign
rs7775119	NP_892006	S	T	ST	benign
rs7775397	NP_006772	K	Q	KQ	benign
rs7776970	XP_166532	R	H	RH	benign
rs7777835	XP_166571	K	E	KE	benign
rs7779807	XP_168530	P	A	PA	probably damaging
rs7780712	XP_374653	C	R	CR	probably damaging
rs7780723	XP_374653	I	T	IT	benign
rs7783247	XP_373223	I	M	IM	benign
rs7783385	XP_373223	P	A	PA	possibly damaging
rs7783862	NP_612503	Y	H	YH	possibly damaging
rs7784276	XP_373223	A	T	AT	benign
rs7785206	NP_066974	V	L	VL	benign
rs7785290	XP_376576	K	R	KR	benign
rs7787378	XP_069621	R	C	RC	possibly damaging
rs7787814	NP_997225	I	V	IV	benign
rs7789030	XP_376724	A	V	AV	benign
rs7789507	NP_061955	I	V	IV	benign
rs7790381	NP_932351	F	L	FL	benign
rs7790844	XP_166571	V	A	VA	benign
rs7791608	XP_374581	H	R	HR	possibly damaging
rs7792133	NP_000594	R	H	RH	benign
rs7792760	XP_291223	Q	R	QR	benign
rs7792976	NP_065779	G	S	GS	benign
rs7793098	XP_498429	S	W	SW	possibly damaging
rs7796289	XP_374655	K	Q	KQ	possibly damaging
rs7796589	NP_872440	M	V	MV	probably damaging
rs7797639	XP_371954	P	S	PS	probably damaging
rs7797657	NP_689995	L	V	LV	benign
rs7798381	NP_114111	R	W	RW	possibly damaging
rs7798643	NP_689957	A	V	AV	benign
rs7800072	NP_689967	K	Q	KQ	benign
rs7800847	XP_069612	R	W	RW	possibly damaging
rs7801492	NP_036304	R	H	RH	benign
rs7801492	NP_277041	R	H	RH	benign
rs7801819	NP_002702	C	Y	CY	probably damaging
rs7802775	XP_373223	I	T	IT	benign
rs7802789	XP_373223	V	A	VA	benign
rs7802935	XP_373223	W	R	WR	benign

rs7803620	NP_079064	R	S	RS	possibly damaging
rs7804532	XP_295195	A	G	AG	benign
rs7805950	NP_659469	M	I	MI	benign
rs7806476	XP_374461	N	D	ND	possibly damaging
rs7807049	XP_039393	Q	R	QR	benign
rs7807821	XP_498241	A	V	AV	benign
rs7808591	XP_496882	G	V	GV	probably damaging
rs7808646	NP_073585	G	S	GS	benign
rs7809260	NP_006015	S	N	SN	benign
rs7809374	XP_496882	L	F	LF	benign
rs7809378	XP_376679	P	A	PA	probably damaging
rs7809379	XP_376679	P	Q	PQ	probably damaging
rs7809895	XP_166571	E	D	ED	benign
rs7810767	XP_371954	E	Q	EQ	benign
rs7811263	NP_570115	R	S	RS	benign
rs7812024	NP_006707	P	R	PR	probably damaging
rs7812316	NP_075568	S	C	SC	benign
rs7813215	NP_001138	V	I	VI	benign
rs7813708	NP_996889	A	T	AT	benign
rs7813708	NP_116288	A	T	AT	benign
rs7814768	NP_055080	M	V	MV	benign
rs7814768	NP_068548	M	V	MV	benign
rs7814840	NP_892121	I	V	IV	benign
rs7814840	NP_056311	I	V	IV	benign
rs7815364	NP_079427	T	S	TS	benign
rs7815455	NP_877724	S	N	SN	benign
rs7815654	NP_001106	L	I	LI	benign
rs7816413	XP_372063	R	W	RW	possibly damaging
rs7817179	NP_079427	T	M	TM	benign
rs7817227	XP_372035	Q	R	QR	benign
rs7819749	NP_015628	N	K	NK	benign
rs7820062	NP_803875	T	R	TR	benign
rs7820984	NP_001907	V	M	VM	benign
rs7821248	NP_001729	A	V	AV	benign
rs7822461	NP_073586	G	R	GR	possibly damaging
rs7823773	NP_079107	F	C	FC	probably damaging
rs7823979	NP_570901	E	K	EK	benign
rs7824139	NP_958728	T	P	TP	benign
rs7829386	NP_003808	I	V	IV	benign
rs7829965	NP_055080	M	I	MI	benign
rs7829965	NP_068548	M	I	MI	benign
rs7830832	NP_038460	A	V	AV	benign
rs7833924	NP_958786	S	P	SP	possibly damaging
rs7833924	NP_958785	S	P	SP	possibly damaging
rs7833924	NP_958784	S	P	SP	possibly damaging
rs7833924	NP_958783	S	P	SP	possibly damaging

rs7833924	NP_958782	S	P	SP	possibly damaging
rs7833924	NP_958781	S	P	SP	possibly damaging
rs7833924	NP_958780	S	P	SP	possibly damaging
rs7833924	NP_000436	S	P	SP	possibly damaging
rs7834525	NP_004892	E	K	EK	benign
rs7835798	NP_055569	T	N	TN	benign
rs7839771	NP_066290	R	H	RH	possibly damaging
rs7839934	XP_372063	L	V	LV	benign
rs7841823	XP_376787	R	S	RS	possibly damaging
rs7843605	NP_149047	K	R	KR	benign
rs7843605	NP_908973	K	R	KR	benign
rs7843605	NP_908974	K	R	KR	benign
rs7845453	NP_954675	A	T	AT	benign
rs7845496	NP_115872	D	Y	DY	probably damaging
rs7845771	NP_659441	S	T	ST	benign
rs7847165	XP_497051	K	Q	KQ	benign
rs7847330	XP_497051	Q	H	QH	probably damaging
rs7847413	XP_071099	I	T	IT	benign
rs7847896	XP_034640	S	N	SN	benign
rs7848588	NP_569726	Y	C	YC	probably damaging
rs7850438	NP_061871	E	K	EK	benign
rs7850844	NP_000597	G	D	GD	benign
rs7851696	NP_056652	A	S	AS	benign
rs7851696	NP_004099	A	S	AS	benign
rs7852039	NP_387504	R	H	RH	benign
rs7852247	XP_379639	R	C	RC	possibly damaging
rs7852247	XP_499140	R	C	RC	possibly damaging
rs7852261	XP_379639	T	M	TM	benign
rs7852261	XP_499140	T	M	TM	benign
rs7852399	XP_372083	F	Y	FY	benign
rs7852858	XP_071093	P	L	PL	probably damaging
rs7853592	XP_497051	R	Q	RQ	benign
rs7854303	NP_079515	S	F	SF	benign
rs7854329	NP_640339	Y	H	YH	benign
rs7854413	NP_079515	I	T	IT	benign
rs7854621	NP_067063	N	T	NT	benign
rs7854940	XP_374297	L	F	LF	benign
rs7855532	NP_006639	D	E	DE	benign
rs7856488	NP_065975	H	R	HR	probably damaging
rs7857490	XP_171224	V	M	VM	benign
rs7858601	XP_071099	R	W	RW	probably damaging
rs7858997	XP_498307	W	S	WS	probably damaging
rs7859194	NP_116263	D	A	DA	benign
rs7859962	NP_002820	F	L	FL	benign
rs7863488	NP_071935	D	H	DH	benign
rs7864351	NP_055876	E	D	ED	benign

rs7864805	XP_372133	P	H	PH	probably damaging
rs7866127	XP_497069	E	D	ED	benign
rs7867180	NP_071935	V	M	VM	benign
rs7868609	XP_041018	R	S	RS	benign
rs7869444	NP_569075	E	D	ED	benign
rs7869444	NP_569076	E	D	ED	benign
rs7869444	NP_569077	E	D	ED	benign
rs7869444	NP_002830	E	D	ED	benign
rs7871785	NP_002790	V	A	VA	benign
rs7872077	NP_006678	V	M	VM	benign
rs7873074	NP_000709	A	S	AS	benign
rs7874348	NP_872293	A	T	AT	benign
rs7874507	NP_037522	E	G	EG	possibly damaging
rs7875283	XP_373322	C	F	CF	probably damaging
rs7875294	NP_060719	N	I	NI	probably damaging
rs7875872	NP_060264	S	T	ST	benign
rs7876511	XP_374328	A	E	AE	possibly damaging
rs7878409	NP_002355	T	A	TA	benign
rs7878741	NP_006141	E	K	EK	benign
rs7879053	XP_498392	P	S	PS	possibly damaging
rs7880436	NP_116010	N	D	ND	benign
rs7880914	XP_372200	A	T	AT	benign
rs7882107	XP_377014	N	D	ND	possibly damaging
rs7883913	NP_001513	R	Q	RQ	possibly damaging
rs7884806	NP_997305	T	I	TI	benign
rs7885041	NP_000197	T	S	TS	benign
rs7886232	XP_498351	A	V	AV	benign
rs7886826	NP_002901	Q	R	QR	benign
rs7887327	XP_498351	G	D	GD	possibly damaging
rs7887630	XP_372257	P	S	PS	probably damaging
rs7889330	XP_291326	E	G	EG	possibly damaging
rs7889678	NP_004420	T	M	TM	benign
rs7889839	XP_371326	M	V	MV	benign
rs7890126	NP_004126	V	I	VI	benign
rs7894200	NP_056467	T	P	TP	possibly damaging
rs7894307	XP_290463	P	T	PT	possibly damaging
rs7894315	NP_056467	N	S	NS	benign
rs7894545	NP_056467	R	G	RG	possibly damaging
rs7894865	NP_004184	V	M	VM	benign
rs7895159	NP_056467	A	P	AP	benign
rs7895372	XP_167711	V	L	VL	benign
rs7895622	NP_079165	R	H	RH	benign
rs7895850	NP_055056	K	E	KE	benign
rs7896313	NP_060079	D	N	DN	benign
rs7897309	XP_374779	Q	R	QR	benign
rs7898873	NP_001072	T	S	TS	benign

rs7899328	NP_689938	T	M	TM	possibly damaging
rs7899445	NP_079406	L	P	LP	possibly damaging
rs7900029	XP_495845	L	Q	LQ	benign
rs7900149	XP_495845	L	P	LP	probably damaging
rs7900194	NP_000762	R	H	RH	benign
rs7901604	NP_004083	I	T	IT	benign
rs7901855	XP_166132	E	A	EA	possibly damaging
rs7901902	NP_006205	G	S	GS	possibly damaging
rs7902757	NP_071407	R	C	RC	possibly damaging
rs7902757	NP_443068	R	C	RC	possibly damaging
rs7903344	NP_001269	I	V	IV	benign
rs7904300	NP_689922	A	T	AT	benign
rs7905009	NP_057149	Y	H	YH	benign
rs7905349	NP_001072	H	Y	HY	possibly damaging
rs7905784	NP_877428	T	S	TS	benign
rs7905784	NP_060988	T	S	TS	benign
rs7906894	XP_497211	G	R	GR	possibly damaging
rs7908745	NP_659458	H	Y	HY	possibly damaging
rs7909153	NP_057196	R	W	RW	probably damaging
rs7910140	NP_078969	T	A	TA	benign
rs7912706	NP_653191	R	I	RI	probably damaging
rs7913176	NP_940916	V	I	VI	benign
rs7914059	NP_942090	V	L	VL	benign
rs7914192	NP_872575	E	D	ED	benign
rs7914192	NP_872577	E	D	ED	benign
rs7914192	NP_000186	E	D	ED	benign
rs7914441	NP_660289	K	Q	KQ	benign
rs7914594	XP_495845	R	W	RW	benign
rs7914886	XP_495845	T	P	TP	benign
rs7914982	NP_008886	H	R	HR	probably damaging
rs7916821	NP_115967	N	S	NS	benign
rs7917267	NP_899230	R	Q	RQ	benign
rs7917566	XP_166132	D	N	DN	benign
rs7917573	XP_166132	E	D	ED	benign
rs7918199	NP_002408	V	M	VM	benign
rs7918487	NP_835455	S	P	SP	benign
rs7918729	NP_055287	Q	K	QK	benign
rs7918730	NP_963858	A	V	AV	benign
rs7918730	NP_570140	A	V	AV	benign
rs7918793	NP_663736	T	M	TM	benign
rs7919507	NP_056036	N	K	NK	benign
rs7920186	NP_060546	R	Q	RQ	benign
rs7920896	NP_996744	P	L	PL	probably damaging
rs7921143	NP_940979	A	G	AG	benign
rs7921306	NP_003165	I	V	IV	benign
rs7921306	NP_068506	I	V	IV	benign

rs7921386	NP_002238	A	D	AD	benign
rs7922159	NP_055287	K	N	KN	benign
rs7922946	NP_060764	R	Q	RQ	benign
rs7924459	XP_291980	R	G	RG	benign
rs7924553	NP_003728	V	I	VI	benign
rs7924602	NP_001095	E	A	EA	probably damaging
rs7924754	XP_372359	D	E	DE	benign
rs7926083	XP_291981	K	T	KT	possibly damaging
rs7926571	NP_944605	A	T	AT	benign
rs7926667	XP_035037	L	S	LS	benign
rs7926728	XP_374927	G	C	GC	probably damaging
rs7926767	XP_291838	R	K	RK	benign
rs7926933	XP_166227	P	L	PL	probably damaging
rs7927108	NP_056076	S	R	SR	benign
rs7927138	NP_937828	R	Q	RQ	benign
rs7927196	XP_372443	T	A	TA	benign
rs7927385	XP_291838	R	K	RK	benign
rs7927496	XP_370649	R	K	RK	probably damaging
rs7928451	XP_372373	A	V	AV	benign
rs7928649	NP_057943	W	R	WR	benign
rs7930185	XP_370616	E	Q	EQ	benign
rs7930678	XP_166831	F	L	FL	probably damaging
rs7931052	XP_170658	T	I	TI	possibly damaging
rs7931261	XP_166831	I	T	IT	benign
rs7931269	XP_170658	T	I	TI	benign
rs7932199	XP_210184	I	L	IL	benign
rs7932708	NP_473372	R	C	RC	possibly damaging
rs7932738	XP_210184	F	V	FV	possibly damaging
rs7932976	NP_683708	V	I	VI	benign
rs7932976	NP_443119	V	I	VI	benign
rs7933549	XP_210181	S	L	SL	possibly damaging
rs7933772	XP_166831	S	G	SG	benign
rs7933789	XP_293565	S	G	SG	benign
rs7933807	XP_372373	V	G	VG	possibly damaging
rs7934079	XP_291816	A	P	AP	benign
rs7934336	XP_061676	R	C	RC	probably damaging
rs7934670	XP_372364	F	I	FI	benign
rs7934823	NP_835462	L	F	LF	benign
rs7935144	XP_372359	R	C	RC	possibly damaging
rs7935175	NP_056969	Q	H	QH	benign
rs7935453	XP_084529	L	V	LV	benign
rs7935625	XP_370665	E	D	ED	benign
rs7936020	NP_065860	A	T	AT	benign
rs7936324	XP_291816	A	V	AV	benign
rs7936354	XP_291816	P	L	PL	probably damaging
rs7936512	XP_372361	T	I	TI	benign

rs7936660	NP_958831	D	H	DH	possibly damaging
rs7937237	NP_149420	S	C	SC	benign
rs7937317	XP_166781	I	V	IV	benign
rs7938203	NP_110440	R	T	RT	benign
rs7938371	NP_997069	R	H	RH	benign
rs7938382	XP_290536	S	A	SA	benign
rs7938417	NP_004715	T	I	TI	possibly damaging
rs7938623	NP_857634	C	Y	CY	probably damaging
rs7938623	NP_857635	C	Y	CY	probably damaging
rs7938623	NP_036226	C	Y	CY	probably damaging
rs7939515	XP_495873	C	R	CR	possibly damaging
rs7939902	XP_497309	R	C	RC	probably damaging
rs7939917	NP_110397	V	M	VM	benign
rs7940297	NP_689529	T	P	TP	benign
rs7940667	NP_976030	V	G	VG	benign
rs7940827	XP_293565	R	W	RW	possibly damaging
rs7941190	XP_372411	L	F	LF	benign
rs7941404	NP_079059	R	H	RH	benign
rs7941523	NP_733746	A	V	AV	benign
rs7941731	XP_061627	I	T	IT	probably damaging
rs7942047	XP_291838	L	P	LP	possibly damaging
rs7943508	NP_005152	V	I	VI	benign
rs7943698	XP_372366	F	Y	FY	benign
rs7944051	NP_002385	P	S	PS	benign
rs7944684	NP_004202	Y	F	YF	benign
rs7945285	NP_699178	V	A	VA	benign
rs7946182	XP_370662	R	H	RH	benign
rs7947114	XP_372418	K	E	KE	benign
rs7947230	XP_084529	N	H	NH	benign
rs7947426	XP_089863	I	V	IV	benign
rs7947432	XP_089863	I	V	IV	benign
rs7947504	NP_113638	R	Q	RQ	benign
rs7947619	NP_113638	M	I	MI	benign
rs7947780	NP_659455	S	R	SR	benign
rs7948009	XP_372364	R	C	RC	benign
rs7948561	XP_497280	R	S	RS	benign
rs7948629	XP_166879	Y	C	YC	possibly damaging
rs7948666	NP_006682	V	M	VM	benign
rs7949157	XP_061871	Q	R	QR	benign
rs7949377	NP_835462	K	M	KM	possibly damaging
rs7949430	NP_006176	V	M	VM	benign
rs7949664	XP_166871	V	G	VG	possibly damaging
rs7949771	NP_703145	N	D	ND	benign
rs7950082	XP_372359	Y	F	YF	probably damaging
rs7950441	NP_060631	Q	H	QH	probably damaging
rs7950873	NP_057662	S	P	SP	benign



rs7951297	NP_663626	R	C	RC	benign
rs7952293	NP_149420	R	C	RC	benign
rs7953309	NP_006602	Q	R	QR	benign
rs7954976	NP_057377	D	N	DN	benign
rs7955371	NP_061852	S	C	SC	benign
rs7955450	NP_689648	G	S	GS	benign
rs7955866	NP_065689	T	M	TM	possibly damaging
rs7956250	NP_003868	E	G	EG	possibly damaging
rs7956679	NP_036536	L	F	LF	benign
rs7957619	NP_000422	S	N	SN	benign
rs7958174	NP_778236	R	Q	RQ	benign
rs7958311	NP_002553	R	H	RH	benign
rs7958316	NP_002553	R	H	RH	benign
rs7958709	NP_077288	I	L	IL	benign
rs7960087	NP_004649	V	L	VL	benign
rs7960177	XP_372447	V	M	VM	possibly damaging
rs7961645	NP_066276	D	V	DV	benign
rs7962217	NP_000543	G	R	GR	probably damaging
rs7963597	NP_937883	S	P	SP	benign
rs7963597	NP_002947	S	P	SP	benign
rs7963692	NP_005466	T	S	TS	benign
rs7963792	NP_005547	R	W	RW	probably damaging
rs7965471	NP_775813	Q	P	QP	possibly damaging
rs7965804	NP_110392	R	Q	RQ	benign
rs7966307	NP_085911	K	R	KR	benign
rs7966313	NP_612460	L	V	LV	benign
rs7966339	NP_002291	M	V	MV	benign
rs7966369	XP_372471	R	W	RW	probably damaging
rs7967435	XP_497333	R	C	RC	benign
rs7968222	NP_055523	K	N	KN	benign
rs7968684	XP_495917	H	Q	HQ	benign
rs7968829	NP_003474	G	R	GR	possibly damaging
rs7968961	XP_495920	V	L	VL	benign
rs7969347	NP_849148	N	D	ND	benign
rs7969410	NP_036595	R	Q	RQ	possibly damaging
rs7969705	NP_113679	E	Q	EQ	benign
rs7969931	NP_006143	L	V	LV	benign
rs7969937	NP_997321	D	E	DE	benign
rs7970387	XP_290559	Q	E	QE	benign
rs7971718	XP_495917	T	M	TM	benign
rs7972242	XP_290592	K	Q	KQ	benign
rs7972747	NP_000880	E	V	EV	possibly damaging
rs7972796	NP_005466	F	L	FL	benign
rs7973658	NP_060034	R	H	RH	benign
rs7973666	XP_208658	Q	R	QR	benign
rs7974137	NP_005529	R	H	RH	benign

rs7974426	NP_859062	L	V	LV	benign
rs7975237	NP_859075	T	I	TI	benign
rs7975614	NP_002327	V	I	VI	benign
rs7978197	NP_938079	R	H	RH	probably damaging
rs7981609	NP_076994	R	H	RH	benign
rs7984952	NP_005791	S	L	SL	benign
rs7985433	XP_208097	V	A	VA	benign
rs7985900	XP_375027	P	S	PS	benign
rs7986131	NP_005349	M	T	MT	benign
rs7987859	XP_497370	Y	H	YH	probably damaging
rs7988841	NP_005349	P	R	PR	probably damaging
rs7990167	NP_898865	V	E	VE	benign
rs7990369	NP_004120	A	V	AV	benign
rs7992146	NP_000811	G	R	GR	benign
rs7993061	XP_495963	M	V	MV	benign
rs7995033	NP_004676	V	I	VI	benign
rs7996253	XP_292193	A	V	AV	benign
rs7998427	NP_114121	G	E	GE	possibly damaging
rs8002697	NP_699202	S	P	SP	probably damaging
rs8002725	NP_003834	K	R	KR	benign
rs8002725	NP_659001	K	R	KR	benign
rs8004609	NP_000701	R	Q	RQ	benign
rs8005245	XP_372504	K	N	KN	probably damaging
rs8005834	XP_375067	R	G	RG	benign
rs8007859	NP_060669	Q	H	QH	possibly damaging
rs8008203	XP_370756	A	V	AV	benign
rs8010237	NP_008870	H	Y	HY	possibly damaging
rs8010264	NP_068355	T	S	TS	benign
rs8010264	NP_006418	T	S	TS	benign
rs8010791	NP_055565	Q	H	QH	possibly damaging
rs8010888	XP_377355	T	A	TA	benign
rs8010994	NP_003804	E	D	ED	benign
rs8012891	NP_002925	H	Q	HQ	benign
rs8013454	XP_497418	T	M	TM	benign
rs8014119	NP_775798	G	A	GA	benign
rs8014538	NP_004230	S	G	SG	possibly damaging
rs8017377	XP_370756	A	T	AT	benign
rs8018720	NP_006355	L	V	LV	benign
rs8019076	NP_114120	V	A	VA	benign
rs8020032	NP_009017	F	L	FL	possibly damaging
rs8020529	NP_689545	S	N	SN	benign
rs8022805	NP_009041	R	Q	RQ	benign
rs8023621	NP_001888	R	H	RH	benign
rs8023906	NP_057216	T	A	TA	benign
rs8024644	NP_112574	K	R	KR	benign
rs8024732	NP_937784	R	Q	RQ	benign

rs8024962	XP_375148	A	T	AT	benign
rs8024962	XP_496031	A	T	AT	benign
rs8025153	NP_004564	R	H	RH	possibly damaging
rs8025811	XP_370868	P	L	PL	probably damaging
rs8026258	XP_496026	H	L	HL	probably damaging
rs8026929	NP_073604	S	C	SC	possibly damaging
rs8026956	NP_060154	T	A	TA	benign
rs8027526	NP_056355	Q	E	QE	benign
rs8027765	NP_073604	D	N	DN	benign
rs8028305	NP_054799	R	H	RH	possibly damaging
rs8028332	NP_057484	S	P	SP	benign
rs8029810	NP_689549	P	L	PL	benign
rs8030576	NP_057726	Q	R	QR	benign
rs8030584	NP_057726	Q	P	QP	benign
rs8030587	XP_031744	R	H	RH	benign
rs8030775	NP_940844	A	T	AT	benign
rs8031218	XP_031744	T	I	TI	benign
rs8032410	NP_004127	I	V	IV	benign
rs8033825	XP_370836	C	S	CS	probably damaging
rs8034304	XP_496055	A	V	AV	benign
rs8034304	XP_496061	A	V	AV	benign
rs8034443	NP_116191	V	I	VI	benign
rs8034735	NP_057726	H	R	HR	benign
rs8035034	XP_375147	L	P	LP	possibly damaging
rs8035034	XP_496030	L	P	LP	possibly damaging
rs8035209	XP_497455	V	G	VG	possibly damaging
rs8035438	XP_370848	W	R	WR	probably damaging
rs8035931	NP_976307	V	L	VL	benign
rs8036680	XP_035527	Q	R	QR	benign
rs8037614	NP_055141	R	Q	RQ	possibly damaging
rs8037872	XP_496026	T	M	TM	benign
rs8038017	XP_375150	E	V	EV	possibly damaging
rs8038741	XP_496026	M	I	MI	possibly damaging
rs8040502	NP_733468	G	R	GR	possibly damaging
rs8040502	NP_653091	G	R	GR	possibly damaging
rs8040712	XP_370868	F	V	FV	benign
rs8040932	NP_005494	L	P	LP	probably damaging
rs8041035	NP_061141	T	M	TM	probably damaging
rs8041078	NP_689662	A	V	AV	benign
rs8041089	NP_689662	A	V	AV	benign
rs8041417	NP_061141	R	W	RW	probably damaging
rs8042811	NP_775880	C	R	CR	probably damaging
rs8042868	NP_742095	V	I	VI	benign
rs8042868	NP_742094	V	I	VI	benign
rs8042868	NP_742093	V	I	VI	benign
rs8042868	NP_473361	V	I	VI	benign

rs8043515	NP_937784	V	L	VL	benign
rs8043587	NP_054876	D	E	DE	benign
rs8043590	NP_054876	S	T	ST	benign
rs8044843	XP_290684	D	G	DG	benign
rs8045183	NP_036492	V	M	VM	benign
rs8045850	NP_071938	V	M	VM	benign
rs8046121	NP_000237	G	R	GR	possibly damaging
rs8046424	NP_689669	Q	E	QE	benign
rs8046813	NP_065998	R	L	RL	benign
rs8046978	NP_078982	A	V	AV	benign
rs8047578	XP_496156	R	Q	RQ	benign
rs8048197	XP_496156	L	P	LP	benign
rs8048992	NP_003357	R	S	RS	benign
rs8050758	XP_034819	P	A	PA	possibly damaging
rs8050871	NP_008892	Q	H	QH	possibly damaging
rs8050904	NP_877417	T	M	TM	possibly damaging
rs8050974	NP_055529	S	N	SN	benign
rs8051801	XP_091331	C	S	CS	probably damaging
rs8052503	NP_115909	E	D	ED	benign
rs8052579	NP_004474	L	S	LS	benign
rs8052655	NP_060766	G	S	GS	benign
rs8052713	NP_006444	E	Q	EQ	benign
rs8055536	NP_065998	H	Q	HQ	benign
rs8055741	XP_498469	G	S	GS	possibly damaging
rs8055886	XP_498469	P	L	PL	probably damaging
rs8055896	XP_498469	T	M	TM	possibly damaging
rs8055909	NP_775747	G	S	GS	benign
rs8056684	NP_116219	R	H	RH	benign
rs8056693	NP_872423	V	I	VI	benign
rs8056709	NP_443188	I	V	IV	benign
rs8056950	XP_498469	E	V	EV	probably damaging
rs8057331	NP_063915	T	M	TM	benign
rs8057331	NP_063953	T	M	TM	benign
rs8057331	NP_063954	T	M	TM	benign
rs8057331	NP_063955	T	M	TM	benign
rs8057331	NP_063956	T	M	TM	benign
rs8057331	NP_063957	T	M	TM	benign
rs8057331	NP_004987	T	M	TM	benign
rs8057474	NP_660188	K	M	KM	benign
rs8057474	NP_660190	K	M	KM	benign
rs8057474	NP_660191	K	M	KM	benign
rs8057474	NP_150229	K	M	KM	benign
rs8058674	NP_055529	R	W	RW	possibly damaging
rs8058694	NP_001162	H	Q	HQ	possibly damaging
rs8059234	XP_496156	M	T	MT	benign
rs8059252	NP_079198	I	V	IV	benign

rs8059494	XP_292504	E	D	ED	benign
rs8060046	NP_000330	R	K	RK	benign
rs8060130	NP_079056	T	M	TM	benign
rs8060294	NP_877417	L	S	LS	possibly damaging
rs8060532	NP_055529	A	V	AV	benign
rs8061302	NP_001442	P	T	PT	possibly damaging
rs8062281	XP_370944	H	L	HL	probably damaging
rs8062344	NP_060358	P	R	PR	probably damaging
rs8062558	NP_115909	R	G	RG	possibly damaging
rs8063446	NP_115554	S	A	SA	benign
rs8063727	NP_002696	R	Q	RQ	benign
rs8063774	XP_496156	Q	R	QR	possibly damaging
rs8064455	NP_115509	E	D	ED	benign
rs8064529	NP_997229	V	A	VA	benign
rs8064625	NP_065138	R	Q	RQ	benign
rs8064733	XP_496218	W	R	WR	probably damaging
rs8065506	NP_065838	N	K	NK	benign
rs8065854	NP_000864	A	T	AT	benign
rs8065903	NP_073738	K	R	KR	benign
rs8066242	NP_659505	V	M	VM	benign
rs8066269	NP_938190	A	S	AS	benign
rs8066269	NP_938191	A	S	AS	benign
rs8066269	NP_938192	A	S	AS	benign
rs8066269	NP_938193	A	S	AS	benign
rs8066269	NP_938194	A	S	AS	benign
rs8066269	NP_938196	A	S	AS	benign
rs8066269	NP_938197	A	S	AS	benign
rs8066269	NP_938198	A	S	AS	benign
rs8066269	NP_938199	A	S	AS	benign
rs8066269	NP_938200	A	S	AS	benign
rs8066269	NP_938201	A	S	AS	benign
rs8066269	NP_938202	A	S	AS	benign
rs8066269	NP_938406	A	S	AS	benign
rs8066269	NP_061496	A	S	AS	benign
rs8067409	XP_045581	V	I	VI	benign
rs8068049	NP_060875	G	S	GS	benign
rs8068240	NP_060619	P	L	PL	probably damaging
rs8068464	XP_496245	R	H	RH	benign
rs8068664	NP_703147	M	I	MI	possibly damaging
rs8069305	XP_497550	G	V	GV	probably damaging
rs8069315	NP_064547	R	C	RC	probably damaging
rs8069344	NP_000171	L	H	LH	probably damaging
rs8069375	NP_055151	T	I	TI	benign
rs8069834	NP_002463	W	R	WR	benign
rs8069943	NP_003762	Q	R	QR	benign
rs8070501	NP_001363	R	W	RW	probably damaging

rs8071056	NP_079203	H	Q	HQ	possibly damaging
rs8071215	NP_057197	N	S	NS	benign
rs8072048	NP_112584	R	Q	RQ	benign
rs8072110	NP_787098	D	E	DE	benign
rs8072110	NP_078924	D	E	DE	benign
rs8072406	NP_005984	G	V	GV	benign
rs8072430	NP_663327	R	W	RW	benign
rs8072430	NP_003684	R	W	RW	possibly damaging
rs8072568	NP_004237	H	L	HL	benign
rs8072774	XP_290768	V	I	VI	benign
rs8073060	XP_496207	Y	F	YF	benign
rs8073695	NP_079111	G	S	GS	possibly damaging
rs8073787	NP_004496	R	W	RW	possibly damaging
rs8073809	NP_055553	I	T	IT	possibly damaging
rs8074277	NP_078978	M	V	MV	benign
rs8074290	NP_002940	P	S	PS	probably damaging
rs8074656	NP_001363	W	R	WR	probably damaging
rs8074656	NP_004653	W	R	WR	probably damaging
rs8074806	NP_055775	A	V	AV	benign
rs8075017	NP_817084	L	F	LF	benign
rs8075017	NP_003940	L	F	LF	benign
rs8075276	NP_057055	V	A	VA	benign
rs8075739	XP_085722	R	K	RK	benign
rs8076130	XP_497524	V	I	VI	benign
rs8076196	NP_665741	M	I	MI	benign
rs8076599	NP_066292	I	V	IV	benign
rs8076604	NP_976063	A	V	AV	benign
rs8076604	NP_510880	A	V	AV	benign
rs8076632	NP_073738	Q	E	QE	benign
rs8077302	NP_001294	R	Q	RQ	benign
rs8077382	NP_060884	V	A	VA	benign
rs8077469	NP_775891	R	Q	RQ	benign
rs8077661	NP_001130	G	S	GS	benign
rs8078059	NP_443089	S	P	SP	benign
rs8078150	NP_006373	L	F	LF	benign
rs8078217	NP_443089	F	L	FL	benign
rs8078238	NP_009198	V	I	VI	benign
rs8078660	NP_056536	P	L	PL	possibly damaging
rs8079267	NP_000204	Q	H	QH	benign
rs8079373	NP_997229	H	Q	HQ	possibly damaging
rs8079507	NP_689675	A	V	AV	benign
rs8080046	NP_203747	H	Q	HQ	possibly damaging
rs8080100	XP_375485	V	M	VM	benign
rs8080182	XP_085689	G	S	GS	benign
rs8080582	NP_110435	A	T	AT	benign
rs8080598	NP_110435	R	H	RH	benign

rs8080966	NP_658988	P	L	PL	probably damaging
rs8081370	NP_203693	I	V	IV	benign
rs8081536	NP_004646	R	H	RH	possibly damaging
rs8082683	NP_003762	A	V	AV	possibly damaging
rs8082898	NP_036439	Y	C	YC	probably damaging
rs8082945	XP_058931	R	Q	RQ	benign
rs8083708	NP_775901	D	A	DA	possibly damaging
rs8083854	XP_208185	Q	R	QR	benign
rs8084295	NP_073751	L	V	LV	benign
rs8087020	XP_058931	E	K	EK	benign
rs8088145	XP_497573	T	N	TN	benign
rs8088347	NP_060417	D	N	DN	benign
rs8090913	NP_006544	R	Q	RQ	benign
rs8091003	NP_001933	N	T	NT	benign
rs8091117	NP_001933	T	N	TN	benign
rs8093707	NP_031371	P	S	PS	probably damaging
rs8094412	NP_660330	R	I	RI	benign
rs8096452	NP_036439	E	Q	EQ	benign
rs8097425	NP_005015	I	M	IM	benign
rs8098956	XP_497598	P	S	PS	possibly damaging
rs8099021	NP_003794	A	G	AG	benign
rs8099409	NP_116322	F	L	FL	benign
rs8100241	NP_689576	A	T	AT	benign
rs8100431	NP_115746	R	Q	RQ	benign
rs8100491	NP_998763	Q	R	QR	possibly damaging
rs8100497	NP_919306	A	T	AT	benign
rs8100525	NP_005474	K	R	KR	benign
rs8100709	NP_892018	T	A	TA	benign
rs8100724	NP_005994	A	S	AS	benign
rs8100856	NP_620168	V	I	VI	benign
rs8101191	NP_002775	L	V	LV	benign
rs8101688	XP_371142	T	I	TI	possibly damaging
rs8101961	NP_079517	A	V	AV	benign
rs8102086	NP_004877	C	R	CR	probably damaging
rs8102258	XP_371139	V	A	VA	benign
rs8102488	NP_008821	F	I	FI	benign
rs8102646	NP_115960	Q	R	QR	benign
rs8102872	NP_001993	R	Q	RQ	benign
rs8102982	NP_999875	L	P	LP	possibly damaging
rs8103002	XP_208204	A	G	AG	possibly damaging
rs8103051	NP_001807	I	M	IM	benign
rs8103142	NP_742151	K	R	KR	benign
rs8103362	NP_742150	T	A	TA	benign
rs8103631	NP_039228	R	W	RW	possibly damaging
rs8104055	XP_053966	E	Q	EQ	benign
rs8104153	NP_612451	E	Q	EQ	benign

rs8104206	NP_006855	Y	H	YH	benign
rs8104361	NP_067010	R	C	RC	probably damaging
rs8104843	XP_065050	P	R	PR	benign
rs8104890	NP_079316	V	I	VI	benign
rs8105096	NP_006855	Y	C	YC	benign
rs8105178	NP_997208	M	V	MV	possibly damaging
rs8105668	NP_150630	P	R	PR	benign
rs8105668	NP_942596	P	R	PR	benign
rs8105725	NP_002682	I	V	IV	benign
rs8105737	XP_065050	Y	S	YS	probably damaging
rs8106037	XP_371160	G	R	GR	probably damaging
rs8106117	NP_660340	M	T	MT	probably damaging
rs8106130	NP_573398	Y	S	YS	probably damaging
rs8106130	NP_570127	Y	S	YS	probably damaging
rs8106130	NP_573399	Y	S	YS	probably damaging
rs8106404	NP_006140	T	M	TM	possibly damaging
rs8106409	NP_079116	K	E	KE	benign
rs8107127	NP_058637	F	C	FC	benign
rs8107127	NP_982353	F	C	FC	possibly damaging
rs8107847	NP_775752	E	G	EG	possibly damaging
rs8107859	NP_775815	T	I	TI	benign
rs8107936	NP_002772	V	L	VL	benign
rs8108071	NP_065863	V	L	VL	benign
rs8108174	NP_689576	L	Q	LQ	benign
rs8108180	NP_079521	V	I	VI	benign
rs8108188	NP_000444	C	G	CG	possibly damaging
rs8108270	NP_065864	K	R	KR	possibly damaging
rs8108570	XP_496315	M	L	ML	benign
rs8108621	XP_372723	R	Q	RQ	benign
rs8108721	XP_065050	F	L	FL	benign
rs8108738	XP_038150	G	S	GS	benign
rs8108981	NP_079521	M	V	MV	benign
rs8108996	XP_050564	P	L	PL	probably damaging
rs8109165	NP_203127	H	Y	HY	benign
rs8109273	XP_371140	Y	H	YH	benign
rs8109661	NP_078958	G	D	GD	possibly damaging
rs8110220	NP_057330	N	D	ND	benign
rs8110264	XP_209178	N	S	NS	benign
rs8110271	NP_056498	A	T	AT	benign
rs8110300	NP_005753	R	L	RL	possibly damaging
rs8110904	NP_001703	A	V	AV	benign
rs8110972	XP_371146	Y	F	YF	benign
rs8111085	NP_001370	I	V	IV	benign
rs8111135	NP_056498	A	V	AV	benign
rs8111171	NP_001703	Q	K	QK	probably damaging
rs8111468	NP_001703	Q	H	QH	benign



rs8111570	XP_372719	D	E	DE	benign
rs8111625	NP_775753	T	S	TS	benign
rs8111790	NP_057620	H	Q	HQ	probably damaging
rs8112667	NP_775753	P	T	PT	possibly damaging
rs8112679	NP_037492	G	D	GD	possibly damaging
rs8112740	XP_209155	E	A	EA	possibly damaging
rs8112811	NP_003314	D	N	DN	benign
rs8113325	NP_036509	T	M	TM	probably damaging
rs8113504	XP_091886	N	S	NS	benign
rs8113564	NP_919409	G	D	GD	possibly damaging
rs8113564	NP_055496	G	D	GD	possibly damaging
rs8113704	NP_640332	V	A	VA	benign
rs8114297	NP_002886	I	M	IM	benign
rs8114680	NP_852131	G	E	GE	benign
rs8118712	NP_542406	E	D	ED	benign
rs8119864	NP_898868	P	L	PL	probably damaging
rs8119864	NP_898869	P	L	PL	probably damaging
rs8119864	NP_036540	P	L	PL	probably damaging
rs8120693	NP_938205	A	T	AT	benign
rs8120713	NP_543013	P	L	PL	probably damaging
rs8121353	NP_542174	R	K	RK	benign
rs8122355	NP_543013	P	L	PL	probably damaging
rs8123195	NP_078980	N	S	NS	benign
rs8125581	NP_004985	D	N	DN	probably damaging
rs8127568	XP_371409	E	K	EK	benign
rs8128004	NP_059143	Q	H	QH	possibly damaging
rs8128440	NP_066553	N	D	ND	benign
rs8129054	XP_371411	T	A	TA	benign
rs8129760	XP_375931	D	E	DE	benign
rs8129891	NP_008864	A	T	AT	benign
rs8129954	XP_375936	V	I	VI	benign
rs8129968	XP_086761	R	W	RW	possibly damaging
rs8130110	NP_002763	Y	C	YC	probably damaging
rs8131611	NP_003711	I	V	IV	benign
rs8131611	NP_982257	I	V	IV	benign
rs8131693	NP_006022	R	Q	RQ	benign
rs8133052	NP_001227	C	Y	CY	benign
rs8134187	NP_002763	S	C	SC	possibly damaging
rs8135276	NP_006596	A	T	AT	benign
rs8135914	XP_032996	Q	R	QR	benign
rs8135982	NP_612424	G	S	GS	benign
rs8136495	NP_149977	T	M	TM	possibly damaging
rs8136946	NP_563581	F	L	FL	benign
rs8137247	NP_705843	D	V	DV	probably damaging
rs8137437	NP_683515	T	I	TI	possibly damaging
rs8137748	NP_003605	R	H	RH	possibly damaging

rs8137873	NP_065194	L	P	LP	possibly damaging
rs8138122	NP_064455	R	H	RH	benign
rs8138516	XP_376007	S	T	ST	benign
rs8139305	NP_005129	A	V	AV	benign
rs8139383	NP_056518	L	M	LM	benign
rs8139422	NP_077300	D	E	DE	benign
rs8139552	NP_620169	D	N	DN	benign
rs8140287	XP_376008	R	Q	RQ	benign
rs8140743	NP_443732	C	S	CS	probably damaging
rs8141153	NP_003669	T	S	TS	benign
rs8141262	NP_066919	T	M	TM	benign
rs8141797	NP_062547	N	S	NS	benign
rs8142477	NP_689452	S	C	SC	benign
rs8142477	NP_689453	S	C	SC	possibly damaging
rs8143121	XP_086894	R	H	RH	benign
rs8175974	NP_000411	A	T	AT	benign
rs8176038	NP_000411	L	P	LP	probably damaging
rs8176048	NP_000411	S	A	SA	benign
rs8176058	NP_000411	T	M	TM	benign
rs8176059	NP_000411	R	W	RW	possibly damaging
rs8176153	NP_009230	G	S	GS	possibly damaging
rs8176153	NP_009231	G	S	GS	possibly damaging
rs8176153	NP_009232	G	S	GS	possibly damaging
rs8176153	NP_009233	G	S	GS	possibly damaging
rs8176153	NP_009227	G	S	GS	possibly damaging
rs8176219	NP_009229	T	A	TA	benign
rs8176219	NP_009233	T	A	TA	benign
rs8176219	NP_009234	T	A	TA	benign
rs8176219	NP_009236	T	A	TA	benign
rs8176219	NP_009228	T	A	TA	benign
rs8176219	NP_009235	T	A	TA	benign
rs8176344	NP_000776	V	L	VL	benign
rs8176393	NP_006282	T	I	TI	benign
rs8176785	NP_006148	Q	R	QR	possibly damaging
rs8176786	NP_006148	R	W	RW	probably damaging
rs8176788	NP_006148	G	S	GS	possibly damaging
rs8176919	NP_005214	G	R	GR	probably damaging
rs8176924	NP_005214	G	D	GD	benign
rs8176927	NP_005214	R	S	RS	benign
rs8176928	NP_005214	R	G	RG	probably damaging
rs8176939	NP_005214	A	P	AP	possibly damaging
rs8176940	NP_005214	C	Y	CY	probably damaging
rs8177068	NP_002612	V	M	VM	benign
rs8177076	NP_002612	P	L	PL	possibly damaging
rs8177077	NP_002612	G	S	GS	possibly damaging
rs8177143	NP_004436	P	R	PR	possibly damaging

rs8177146	NP_004436	S	A	SA	benign
rs8177173	NP_004436	G	S	GS	benign
rs8177175	NP_004436	R	Q	RQ	benign
rs8177238	NP_001054	D	G	DG	benign
rs8177318	NP_001054	S	R	SR	benign
rs8177369	NP_683708	A	P	AP	benign
rs8177369	NP_443119	A	P	AP	benign
rs8177374	NP_443119	S	L	SL	benign
rs8177374	NP_683708	S	L	SL	possibly damaging
rs8177399	NP_443119	R	W	RW	benign
rs8177399	NP_683708	R	W	RW	possibly damaging
rs8177400	NP_683708	D	N	DN	benign
rs8177400	NP_443119	D	N	DN	benign
rs8177445	NP_002075	F	L	FL	probably damaging
rs8177504	NP_694861	P	S	PS	possibly damaging
rs8177504	NP_003049	P	S	PS	possibly damaging
rs8177507	NP_694861	M	I	MI	possibly damaging
rs8177507	NP_003049	M	I	MI	possibly damaging
rs8177508	NP_694861	M	V	MV	benign
rs8177508	NP_003049	M	V	MV	benign
rs8177509	NP_694861	F	L	FL	benign
rs8177509	NP_003049	F	L	FL	benign
rs8177513	NP_694861	A	G	AG	benign
rs8177513	NP_003049	A	G	AG	benign
rs8177516	NP_694861	R	C	RC	probably damaging
rs8177516	NP_003049	R	C	RC	probably damaging
rs8177517	NP_003049	K	Q	KQ	benign
rs8177536	NP_037514	A	E	AE	possibly damaging
rs8177832	NP_068594	H	R	HR	benign
rs8177877	NP_004474	N	S	NS	benign
rs8177988	NP_000289	V	I	VI	benign
rs8177988	NP_870986	V	I	VI	benign
rs8178318	NP_006142	T	I	TI	benign
rs8178338	NP_006142	A	T	AT	benign
rs8178355	NP_006142	R	Q	RQ	possibly damaging
rs8178401	NP_006142	R	Q	RQ	possibly damaging
rs8178408	NP_006142	I	T	IT	possibly damaging
rs8178412	NP_006142	D	N	DN	possibly damaging
rs8178733	NP_000922	A	D	AD	possibly damaging
rs8178733	NP_000921	A	D	AD	possibly damaging
rs8178733	NP_127509	A	D	AD	possibly damaging
rs8178747	NP_000922	R	S	RS	possibly damaging
rs8178747	NP_000921	R	S	RS	probably damaging
rs8178747	NP_127509	R	S	RS	probably damaging
rs8178748	NP_000922	A	T	AT	benign
rs8178748	NP_000921	A	T	AT	benign

rs8178748	NP_127509	A	T	AT	benign
rs8178847	NP_000033	R	H	RH	benign
rs8178967	NP_002076	S	N	SN	benign
rs8178989	NP_065574	R	P	RP	possibly damaging
rs8178989	NP_066266	R	P	RP	possibly damaging
rs8178989	NP_066265	R	P	RP	possibly damaging
rs8178989	NP_066264	R	P	RP	possibly damaging
rs8178990	NP_065574	L	F	LF	benign
rs8178990	NP_066266	L	F	LF	benign
rs8178990	NP_066265	L	F	LF	benign
rs8178990	NP_066264	L	F	LF	benign
rs8178991	NP_065574	D	N	DN	benign
rs8178991	NP_066266	D	N	DN	benign
rs8178991	NP_066265	D	N	DN	benign
rs8178991	NP_066264	D	N	DN	benign
rs8179070	NP_002657	R	W	RW	possibly damaging
rs8179071	NP_002657	S	L	SL	benign
rs8179072	NP_002657	A	V	AV	benign
rs8179077	NP_003838	Q	R	QR	benign
rs8179142	NP_002997	P	S	PS	possibly damaging
rs8179169	NP_958799	R	P	RP	possibly damaging
rs8179180	NP_073714	V	M	VM	benign
rs8179183	NP_002294	K	N	KN	benign
rs8179199	NP_001141	T	M	TM	probably damaging
rs8179206	NP_001477	E	G	EG	possibly damaging
rs8179212	NP_001477	G	S	GS	possibly damaging
rs8179249	NP_001477	R	Q	RQ	benign
rs8180688	NP_714968	T	M	TM	benign
rs8180688	NP_078906	T	M	TM	benign
rs8180870	NP_073579	T	A	TA	benign
rs8181241	XP_377073	P	S	PS	benign
rs8181241	NP_878908	P	S	PS	benign
rs8181357	NP_963858	E	D	ED	benign
rs8181357	NP_570140	E	D	ED	benign
rs8181512	XP_372365	H	R	HR	probably damaging
rs8181529	XP_372365	S	A	SA	benign
rs8181819	NP_733837	G	R	GR	probably damaging
rs8182018	NP_006145	W	G	WG	probably damaging
rs8182086	XP_375247	S	N	SN	benign
rs8182793	NP_899069	E	G	EG	possibly damaging
rs8182793	NP_899067	E	G	EG	possibly damaging
rs8182904	NP_787073	V	M	VM	benign
rs8183328	NP_733794	E	G	EG	probably damaging
rs8183387	NP_742003	L	P	LP	possibly damaging
rs8183462	NP_056293	S	A	SA	benign
rs8183759	NP_000924	V	G	VG	possibly damaging

rs8183759	NP_877949	V	G	VG	possibly damaging
rs8187636	NP_004946	E	K	EK	benign
rs8187641	NP_004946	I	T	IT	possibly damaging
rs8187643	NP_001523	D	Y	DY	probably damaging
rs8187644	NP_001523	N	K	NK	possibly damaging
rs8187648	NP_001523	P	L	PL	probably damaging
rs8187667	NP_000383	M	L	ML	possibly damaging
rs8187668	NP_000383	D	G	DG	possibly damaging
rs8187670	NP_000383	T	I	TI	benign
rs8187672	NP_000383	K	E	KE	possibly damaging
rs8187673	NP_000383	F	L	FL	benign
rs8187676	NP_000383	I	T	IT	benign
rs8187684	NP_000383	I	V	IV	benign
rs8187685	NP_000383	I	T	IT	possibly damaging
rs8187686	NP_000383	N	S	NS	possibly damaging
rs8187689	NP_000383	L	R	LR	benign
rs8187692	NP_000383	R	L	RL	probably damaging
rs8187694	NP_000383	V	E	VE	benign
rs8187699	NP_000383	T	A	TA	benign
rs8187700	NP_000383	P	L	PL	probably damaging
rs8187710	NP_000383	C	Y	CY	probably damaging
rs8187715	NP_068812	T	M	TM	benign
rs8187717	NP_068812	A	S	AS	benign
rs8187725	NP_068812	T	I	TI	possibly damaging
rs8187732	NP_003046	R	Q	RQ	benign
rs8187733	NP_003046	A	P	AP	benign
rs8187734	NP_003046	R	W	RW	possibly damaging
rs8187738	NP_004204	S	C	SC	benign
rs8187738	NP_964014	S	C	SC	possibly damaging
rs8187744	NP_004204	S	N	SN	benign
rs8187744	NP_964014	S	N	SN	benign
rs8187754	NP_004204	A	S	AS	benign
rs8187756	NP_004204	A	V	AV	benign
rs8187758	NP_004204	Q	K	QK	possibly damaging
rs8187762	NP_004204	V	I	VI	benign
rs8187769	NP_004204	S	P	SP	possibly damaging
rs8187773	NP_004204	N	S	NS	benign
rs8187774	NP_004204	L	V	LV	benign
rs8187788	NP_061337	L	V	LV	benign
rs8187788	NP_061338	L	V	LV	benign
rs8187788	NP_000434	L	V	LV	benign
rs8187792	NP_061337	L	V	LV	benign
rs8187792	NP_061338	L	V	LV	benign
rs8187792	NP_000434	L	V	LV	benign
rs8187797	NP_061337	E	D	ED	benign
rs8187797	NP_061338	E	D	ED	benign

rs8187797	NP_000434	E	D	ED	benign
rs8187799	NP_061337	R	G	RG	benign
rs8187799	NP_061338	R	G	RG	benign
rs8187799	NP_000434	R	G	RG	benign
rs8187800	NP_061337	T	N	TN	benign
rs8187800	NP_061338	T	N	TN	benign
rs8187800	NP_000434	T	N	TN	benign
rs8187801	NP_061337	R	Q	RQ	possibly damaging
rs8187801	NP_061338	R	Q	RQ	possibly damaging
rs8187801	NP_000434	R	Q	RQ	possibly damaging
rs8187811	NP_061337	I	V	IV	benign
rs8187811	NP_061338	I	V	IV	benign
rs8187811	NP_000434	I	V	IV	benign
rs8187817	NP_005064	F	Y	FY	benign
rs8187818	NP_005064	V	I	VI	benign
rs8187820	NP_005064	V	M	VM	benign
rs8187821	NP_005064	S	R	SR	benign
rs8187830	NP_005064	P	S	PS	benign
rs8187838	NP_005064	T	N	TN	benign
rs8187844	NP_063954	S	F	SF	benign
rs8187844	NP_063915	S	F	SF	possibly damaging
rs8187844	NP_063953	S	F	SF	possibly damaging
rs8187844	NP_063955	S	F	SF	possibly damaging
rs8187844	NP_063956	S	F	SF	possibly damaging
rs8187844	NP_063957	S	F	SF	possibly damaging
rs8187844	NP_004987	S	F	SF	possibly damaging
rs8187848	NP_063915	R	Q	RQ	benign
rs8187848	NP_063953	R	Q	RQ	benign
rs8187848	NP_063954	R	Q	RQ	benign
rs8187848	NP_063955	R	Q	RQ	benign
rs8187848	NP_063956	R	Q	RQ	benign
rs8187848	NP_063957	R	Q	RQ	benign
rs8187848	NP_004987	R	Q	RQ	benign
rs8187852	NP_063915	V	M	VM	benign
rs8187852	NP_063953	V	M	VM	benign
rs8187852	NP_063954	V	M	VM	benign
rs8187852	NP_063955	V	M	VM	benign
rs8187852	NP_063956	V	M	VM	benign
rs8187852	NP_063957	V	M	VM	benign
rs8187852	NP_004987	V	M	VM	benign
rs8187929	NP_000680	I	F	IF	benign
rs8190315	NP_001187	S	G	SG	benign
rs8190315	NP_932070	S	G	SG	benign
rs8190600	NP_000809	K	N	KN	possibly damaging
rs8190671	NP_000809	K	R	KR	benign
rs8190730	NP_000809	R	Q	RQ	benign

rs8190955	NP_000628	R	C	RC	probably damaging
rs8190976	NP_000628	G	S	GS	benign
rs8190997	NP_000628	I	V	IV	benign
rs8191004	NP_000628	E	D	ED	benign
rs8191136	NP_002144	A	T	AT	benign
rs8191328	NP_003489	V	I	VI	benign
rs8191371	NP_000166	I	T	IT	probably damaging
rs8191494	NP_000476	Q	R	QR	possibly damaging
rs8191611	NP_659480	T	S	TS	benign
rs8191612	NP_659480	R	W	RW	possibly damaging
rs8191613	NP_659480	R	Q	RQ	benign
rs8191664	NP_659480	R	L	RL	benign
rs8191666	NP_659480	P	T	PT	probably damaging
rs8191704	NP_000867	R	H	RH	benign
rs8191746	NP_000867	P	L	PL	probably damaging
rs8191753	NP_000867	G	D	GD	probably damaging
rs8191754	NP_000867	L	V	LV	benign
rs8191758	NP_000867	D	G	DG	possibly damaging
rs8191776	NP_000867	K	Q	KQ	benign
rs8191797	NP_000867	G	S	GS	benign
rs8191808	NP_000867	L	V	LV	benign
rs8191819	NP_000867	G	S	GS	benign
rs8191842	NP_000867	T	M	TM	benign
rs8191843	NP_000867	V	I	VI	benign
rs8191844	NP_000867	T	S	TS	possibly damaging
rs8191859	NP_000867	G	E	GE	possibly damaging
rs8191860	NP_000867	R	H	RH	benign
rs8191904	NP_000867	R	H	RH	benign
rs8191905	NP_000867	G	D	GD	benign
rs8191908	NP_000867	I	M	IM	benign
rs8191955	NP_000867	A	V	AV	benign
rs8191979	NP_003020	M	V	MV	benign
rs8191981	NP_003020	A	V	AV	benign
rs8191984	NP_003020	S	L	SL	benign
rs8191995	NP_000233	V	G	VG	probably damaging
rs8191996	NP_000233	N	S	NS	benign
rs8192111	NP_002404	A	V	AV	benign
rs8192284	NP_000556	D	A	DA	benign
rs8192297	NP_001141	I	M	IM	benign
rs8192341	NP_003009	N	T	NT	possibly damaging
rs8192448	NP_000670	V	G	VG	possibly damaging
rs8192454	NP_000017	D	E	DE	benign
rs8192457	NP_000017	Q	R	QR	probably damaging
rs8192461	NP_000017	Y	H	YH	probably damaging
rs8192462	NP_000467	E	Q	EQ	benign
rs8192466	NP_733931	T	I	TI	possibly damaging

rs8192466	NP_733930	T	I	TI	possibly damaging
rs8192466	NP_733927	T	I	TI	possibly damaging
rs8192467	NP_000705	R	L	RL	probably damaging
rs8192475	NP_000734	R	H	RH	possibly damaging
rs8192495	NP_001874	R	H	RH	benign
rs8192498	NP_001874	V	I	VI	benign
rs8192504	NP_065438	D	N	DN	possibly damaging
rs8192506	NP_065438	M	V	MV	benign
rs8192507	NP_065438	G	R	GR	probably damaging
rs8192513	NP_003848	G	R	GR	possibly damaging
rs8192514	NP_003848	S	R	SR	benign
rs8192518	NP_009216	V	I	VI	benign
rs8192522	NP_004239	R	H	RH	possibly damaging
rs8192523	NP_004239	D	G	DG	possibly damaging
rs8192524	NP_004239	P	L	PL	benign
rs8192530	NP_000862	A	S	AS	benign
rs8192533	NP_000862	P	T	PT	possibly damaging
rs8192535	NP_004967	Y	F	YF	benign
rs8192545	NP_002396	L	V	LV	benign
rs8192548	NP_002396	R	C	RC	probably damaging
rs8192552	NP_005950	G	E	GE	possibly damaging
rs8192553	NP_005950	R	H	RH	possibly damaging
rs8192556	NP_002491	P	H	PH	probably damaging
rs8192561	NP_002500	P	A	PA	benign
rs8192562	NP_002500	A	T	AT	benign
rs8192563	NP_002500	G	A	GA	possibly damaging
rs8192594	NP_001108	A	T	AT	benign
rs8192606	NP_000930	P	A	PA	benign
rs8192609	NP_000945	K	T	KT	possibly damaging
rs8192618	NP_612200	R	C	RC	possibly damaging
rs8192624	NP_778237	V	I	VI	benign
rs8192625	NP_778237	C	Y	CY	possibly damaging
rs8192626	NP_444508	S	N	SN	benign
rs8192627	NP_444508	D	A	DA	benign
rs8192653	XP_498294	H	R	HR	benign
rs8192662	NP_665736	Y	N	YN	probably damaging
rs8192662	NP_005255	Y	N	YN	probably damaging
rs8192671	NP_005624	N	S	NS	benign
rs8192678	NP_037393	G	S	GS	benign
rs8192683	NP_006199	R	T	RT	benign
rs8192687	NP_002702	G	S	GS	possibly damaging
rs8192690	NP_000343	V	I	VI	benign
rs8192702	NP_001033	A	V	AV	benign
rs8192703	NP_001033	T	S	TS	benign
rs8192707	NP_002651	S	G	SG	benign
rs8192707	NP_877963	S	G	SG	benign



rs8192708	NP_002582	V	I	VI	benign
rs8192709	NP_000758	R	C	RC	possibly damaging
rs8192730	NP_000753	E	D	ED	benign
rs8192784	NP_000757	R	Q	RQ	benign
rs8192789	NP_000757	R	C	RC	benign
rs8192795	NP_085125	L	P	LP	possibly damaging
rs8192833	NP_001052	V	I	VI	benign
rs8192833	NP_112246	V	I	VI	benign
rs8192864	NP_001052	R	Q	RQ	possibly damaging
rs8192868	NP_001052	E	K	EK	benign
rs8192868	NP_112246	E	K	EK	benign
rs8192874	NP_000771	N	S	NS	benign
rs8192875	NP_000771	N	D	ND	possibly damaging
rs8192894	NP_001975	G	E	GE	benign
rs8192912	NP_543029	D	H	DH	benign
rs8192912	NP_954578	D	H	DH	benign
rs8192917	NP_004122	Q	R	QR	benign
rs8192924	NP_003860	R	H	RH	benign
rs8192924	NP_932327	R	H	RH	benign
rs9256983	NP_002107	E	A	EA	benign
rs9257110	XP_498064	I	T	IT	possibly damaging
rs9257111	XP_498064	P	L	PL	probably damaging
rs9257694	XP_498075	M	T	MT	probably damaging
rs9257770	NP_110503	I	M	IM	benign
rs9257834	NP_039224	V	F	VF	possibly damaging
rs9257857	NP_039225	A	T	AT	benign
rs9260121	NP_002107	L	V	LV	benign
rs9260132	NP_002107	E	Q	EQ	probably damaging
rs9260137	NP_002107	T	I	TI	benign
rs9260138	NP_002107	L	V	LV	benign
rs9260139	NP_002107	L	P	LP	possibly damaging
rs9260140	NP_002107	R	H	RH	benign
rs9260153	NP_002107	S	P	SP	benign
rs9260154	NP_002107	A	V	AV	benign
rs9260156	NP_002107	L	W	LW	benign
rs9260157	NP_002107	A	V	AV	benign
rs9260159	NP_002107	T	M	TM	benign
rs9260160	NP_002107	E	D	ED	benign
rs9260174	NP_002107	P	A	PA	benign
rs9260177	NP_002107	P	A	PA	benign
rs9260179	NP_002107	I	V	IV	benign
rs9260180	NP_002107	G	S	GS	benign
rs9260183	NP_002107	E	Q	EQ	benign
rs9260188	NP_002107	V	M	VM	benign
rs9260190	NP_002107	M	R	MR	possibly damaging
rs9261290	NP_739576	T	A	TA	benign

rs9261291	NP_739576	R	H	RH	benign
rs9261292	NP_739576	G	R	GR	possibly damaging
rs9261293	NP_079512	E	G	EG	possibly damaging
rs9262138	NP_003578	D	G	DG	possibly damaging
rs9262151	XP_376479	E	A	EA	possibly damaging
rs9262152	XP_376479	R	K	RK	benign
rs9262322	XP_371809	A	V	AV	benign
rs9262323	XP_371809	E	G	EG	benign
rs9262324	XP_371809	E	D	ED	benign
rs9262325	XP_371809	S	R	SR	benign
rs9262326	XP_371809	T	A	TA	benign
rs9262327	XP_371809	T	I	TI	benign
rs9262332	XP_371809	E	D	ED	benign
rs9262333	XP_371809	P	A	PA	benign
rs9262334	XP_371809	T	I	TI	benign
rs9262336	XP_371809	G	R	GR	possibly damaging
rs9262337	XP_371809	G	E	GE	possibly damaging
rs9262341	XP_371809	V	A	VA	benign
rs9262342	XP_371809	E	D	ED	benign
rs9262344	XP_371809	P	L	PL	benign
rs9262346	XP_371809	G	R	GR	possibly damaging
rs9262349	XP_371809	S	R	SR	benign
rs9262351	XP_371809	T	A	TA	benign
rs9262352	XP_371809	T	I	TI	benign
rs9262354	XP_371809	S	N	SN	benign
rs9262355	XP_371809	G	R	GR	possibly damaging
rs9262357	XP_371809	S	G	SG	benign
rs9262362	XP_371809	P	T	PT	benign
rs9262363	XP_371809	S	N	SN	benign
rs9262365	XP_371809	G	S	GS	benign
rs9262366	XP_371809	E	D	ED	benign
rs9262367	XP_371809	I	V	IV	benign
rs9262368	XP_371809	I	T	IT	benign
rs9262370	XP_371809	V	A	VA	benign
rs9262375	XP_371809	N	S	NS	benign
rs9262376	XP_371809	E	D	ED	benign
rs9262378	XP_371809	N	D	ND	benign
rs9262379	XP_371809	N	S	NS	benign
rs9262380	XP_371809	D	E	DE	benign
rs9262383	XP_371809	E	D	ED	benign
rs9262385	XP_371809	G	E	GE	possibly damaging
rs9262387	XP_371809	T	A	TA	benign
rs9262388	XP_371809	T	I	TI	benign
rs9262390	XP_371809	T	I	TI	benign
rs9262391	XP_371809	A	V	AV	benign
rs9262393	XP_371809	V	L	VL	benign

rs9262394	XP_371809	V	A	VA	benign
rs9262396	XP_371809	S	N	SN	benign
rs9262397	XP_371809	T	N	TN	benign
rs9262399	XP_371809	S	N	SN	benign
rs9262401	XP_371809	A	V	AV	benign
rs9262402	XP_371809	N	S	NS	benign
rs9262403	XP_371809	G	E	GE	possibly damaging
rs9266139	NP_005505	E	Q	EQ	benign
rs9266144	NP_005505	R	W	RW	probably damaging
rs9266150	NP_005505	Y	D	YD	benign
rs9266153	NP_005505	S	R	SR	benign
rs9266161	NP_005505	L	P	LP	probably damaging
rs9266162	NP_005505	L	V	LV	benign
rs9266174	NP_005505	N	D	ND	benign
rs9266178	NP_005505	E	K	EK	benign
rs9266180	NP_005505	A	T	AT	benign
rs9266183	NP_005505	D	G	DG	benign
rs9266206	NP_005505	L	R	LR	benign
rs9267532	NP_067044	R	C	RC	probably damaging
rs9267547	NP_067069	A	T	AT	benign
rs9267795	NP_061978	G	V	GV	possibly damaging
rs9267799	NP_061978	R	Q	RQ	benign
rs9268368	NP_006772	C	Y	CY	benign
rs9268384	NP_006772	H	Y	HY	benign
rs9272430	NP_002113	L	M	LM	benign
rs9272689	NP_002113	C	Y	CY	benign
rs9272691	NP_002113	E	G	EG	benign
rs9272692	NP_002113	A	V	AV	benign
rs9272693	NP_002113	R	W	RW	probably damaging
rs9272695	NP_002113	W	L	WL	benign
rs9272696	NP_002113	E	V	EV	benign
rs9272697	NP_002113	E	D	ED	benign
rs9272698	NP_002113	F	L	FL	benign
rs9272699	NP_002113	S	R	SR	benign
rs9272700	NP_002113	K	Q	KQ	benign
rs9272703	NP_002113	G	C	GC	possibly damaging
rs9272704	NP_002113	G	V	GV	possibly damaging
rs9272705	NP_002113	R	T	RT	benign
rs9272706	NP_002113	M	I	MI	benign
rs9272708	NP_002113	A	P	AP	probably damaging
rs9272709	NP_002113	A	V	AV	benign
rs9272711	NP_002113	Y	S	YS	benign
rs9272745	NP_002113	T	I	TI	benign
rs9272785	NP_002113	A	T	AT	benign
rs9272789	NP_002113	M	V	MV	benign
rs9272793	NP_002113	Q	R	QR	benign

rs9276436	NP_064440	V	A	VA	benign
rs9276811	NP_000584	V	G	VG	possibly damaging
rs9276814	NP_683756	R	H	RH	benign
rs9276814	NP_002791	R	H	RH	benign
rs9277343	NP_002112	L	V	LV	benign
rs9277345	NP_002112	F	Y	FY	benign
rs9277348	NP_002112	F	L	FL	benign
rs9277354	NP_002112	G	E	GE	possibly damaging
rs9277355	NP_002112	P	A	PA	probably damaging
rs9277356	NP_002112	M	V	MV	benign
rs9277934	NP_542411	E	K	EK	benign
rs9282541	NP_005493	R	C	RC	possibly damaging
rs9282543	NP_005493	V	A	VA	benign
rs9282553	NP_525023	M	I	MI	benign
rs9282554	NP_525023	N	Y	NY	benign
rs9282554	NP_758854	N	Y	NY	benign
rs9282564	NP_000918	N	D	ND	benign
rs9282565	NP_000918	A	E	AE	benign
rs9282570	NP_005836	M	V	MV	possibly damaging
rs9282571	NP_004818	F	I	FI	probably damaging
rs9282573	NP_071882	M	V	MV	benign
rs9282574	NP_071882	V	M	VM	benign
rs9282593	NP_055139	M	I	MI	benign
rs9282603	NP_000375	Y	H	YH	benign
rs9282624	NP_001220	I	M	IM	benign
rs9282628	NP_001227	L	V	LV	benign
rs9282642	NP_787058	S	N	SN	benign
rs9282649	NP_787058	Q	E	QE	benign
rs9282655	NP_004351	C	R	CR	probably damaging
rs9282670	NP_000095	Q	R	QR	benign
rs9282671	NP_000095	Y	N	YN	probably damaging
rs9282681	NP_000126	T	A	TA	benign
rs9282689	NP_036322	E	K	EK	possibly damaging
rs9282691	NP_036322	E	A	EA	benign
rs9282691	NP_658989	E	A	EA	possibly damaging
rs9282692	NP_036322	A	T	AT	benign
rs9282692	NP_658989	A	T	AT	benign
rs9282693	NP_036322	A	V	AV	benign
rs9282693	NP_658989	A	V	AV	benign
rs9282697	NP_036322	S	N	SN	benign
rs9282697	NP_658989	S	N	SN	benign
rs9282702	NP_002124	P	L	PL	possibly damaging
rs9282730	NP_004961	P	S	PS	benign
rs9282731	NP_004961	R	W	RW	probably damaging
rs9282734	NP_000589	H	P	HP	benign
rs9282752	NP_000625	M	L	ML	benign

rs9282796	NP_000250	S	L	SL	possibly damaging
rs9282808	NP_000903	D	N	DN	possibly damaging
rs9282817	NP_000905	G	V	GV	benign
rs9282819	NP_000905	S	F	SF	possibly damaging
rs9282834	NP_065681	D	N	DN	benign
rs9282834	NP_066124	D	N	DN	benign
rs9282861	NP_803880	R	H	RH	benign
rs9282861	NP_001046	R	H	RH	possibly damaging
rs9282861	NP_803565	R	H	RH	possibly damaging
rs9282861	NP_803566	R	H	RH	possibly damaging
rs9282861	NP_803878	R	H	RH	possibly damaging
rs9282975	XP_496692	V	F	VF	benign
rs9283155	XP_496332	P	A	PA	benign
rs9283156	XP_496332	H	Y	HY	benign
rs9283633	NP_001032	A	T	AT	possibly damaging
rs9286257	XP_372190	A	V	AV	benign
rs9286575	NP_997301	G	V	GV	probably damaging
rs9288938	XP_210562	S	I	SI	benign
rs9289273	XP_114301	S	L	SL	possibly damaging
rs9290264	NP_001032	V	F	VF	possibly damaging
rs9291410	XP_114418	S	N	SN	benign
rs9293796	XP_293971	S	R	SR	benign
rs9294445	NP_055426	H	Y	HY	benign
rs9295713	XP_496798	W	R	WR	possibly damaging
rs9295783	XP_212581	R	C	RC	possibly damaging
rs9296005	NP_000583	L	V	LV	benign
rs9296005	NP_001002029	L	V	LV	benign
rs9296146	NP_071330	R	H	RH	benign
rs9296419	NP_006493	T	M	TM	possibly damaging
rs9296669	NP_619639	A	V	AV	benign
rs9296669	NP_733842	A	V	AV	benign
rs9297162	NP_112561	P	L	PL	benign
rs9297605	NP_003175	T	S	TS	benign
rs9297853	NP_036604	I	T	IT	possibly damaging
rs9298814	NP_067091	I	R	IR	probably damaging
rs9300466	NP_005757	P	L	PL	probably damaging
rs9302912	NP_733938	I	V	IV	benign
rs9303634	NP_056441	L	S	LS	benign
rs9303634	NP_599026	L	S	LS	possibly damaging
rs9304711	NP_149121	A	V	AV	benign
rs9304850	XP_371160	G	R	GR	benign
rs9305011	XP_371155	H	Q	HQ	possibly damaging
rs9305052	XP_372712	Q	E	QE	benign
rs9305083	NP_056507	P	H	PH	benign
rs9306099	NP_004919	G	S	GS	benign
rs9306109	NP_859016	T	S	TS	benign

rs9306111	NP_941970	R	H	RH	benign
rs9306160	XP_371417	L	P	LP	benign
rs9306198	NP_056182	P	S	PS	possibly damaging
rs9306515	NP_073603	T	M	TM	benign
rs9308683	NP_036316	V	I	VI	benign
rs9309428	XP_371497	G	S	GS	benign
rs9310141	XP_114303	T	A	TA	benign
rs9311404	NP_036403	V	L	VL	benign
rs9311404	NP_054878	V	L	VL	benign
rs9311440	NP_003354	Y	C	YC	probably damaging
rs9311440	NP_955475	Y	C	YC	probably damaging
rs9312870	NP_612357	N	S	NS	benign
rs9313105	NP_620687	R	C	RC	probably damaging
rs9314282	NP_068547	R	M	RM	benign
rs9314282	NP_055080	R	M	RM	possibly damaging
rs9314282	NP_068548	R	M	RM	possibly damaging
rs9315740	NP_006522	L	F	LF	benign
rs9315740	NP_783195	L	F	LF	benign
rs9315812	NP_004285	I	V	IV	benign
rs9318536	NP_006428	Y	S	YS	benign
rs9318554	NP_006428	C	R	CR	probably damaging
rs9318558	NP_006428	R	L	RL	benign
rs9318600	NP_006428	F	Y	FY	benign
rs9320350	NP_115570	A	G	AG	benign
rs9321309	NP_005012	V	M	VM	benign
rs9321712	XP_371849	A	T	AT	benign
rs9322225	NP_116221	R	P	RP	benign
rs9323183	NP_004187	L	V	LV	benign
rs9323693	XP_063315	L	V	LV	benign
rs9324055	XP_040910	V	M	VM	benign
rs9324127	NP_077816	A	V	AV	benign
rs9324624	XP_371776	P	L	PL	probably damaging
rs9324700	NP_001438	F	S	FS	benign
rs9324847	NP_114475	I	L	IL	benign
rs9324847	NP_061742	I	L	IL	benign
rs9324996	NP_995318	N	S	NS	benign
rs9324996	NP_892005	N	S	NS	benign
rs9324996	NP_612501	N	S	NS	benign
rs9326625	XP_496332	S	P	SP	possibly damaging
rs9326626	XP_496332	G	S	GS	benign
rs9328764	NP_861524	R	C	RC	benign
rs9329306	NP_817124	Q	H	QH	probably damaging
rs9329307	NP_817124	H	R	HR	probably damaging
rs9329368	NP_056133	N	S	NS	benign
rs9329369	NP_056133	A	T	AT	benign
rs9329964	XP_372190	V	M	VM	benign

rs9330200	NP_006079	D	E	DE	benign
rs9330229	XP_375041	M	V	MV	benign
rs9330230	XP_375041	C	S	CS	probably damaging
rs9330305	XP_372842	M	L	ML	possibly damaging
rs9330414	XP_497054	S	L	SL	possibly damaging
rs9331936	NP_001822	N	H	NH	possibly damaging
rs9331936	NP_976084	N	H	NH	possibly damaging
rs9331938	NP_001822	D	N	DN	benign
rs9331938	NP_976084	D	N	DN	benign
rs9331940	NP_001822	S	L	SL	possibly damaging
rs9331940	NP_976084	S	L	SL	possibly damaging
rs9332000	NP_001259	A	T	AT	benign
rs9332075	NP_001259	C	S	CS	possibly damaging
rs9332130	NP_000762	E	G	EG	benign
rs9332239	NP_000762	P	S	PS	probably damaging
rs9332485	NP_000121	G	S	GS	possibly damaging
rs9332604	NP_000121	N	S	NS	benign
rs9332605	NP_000121	R	L	RL	benign
rs9332608	NP_000121	P	S	PS	probably damaging
rs9332701	NP_000121	M	T	MT	probably damaging
rs9332739	NP_000054	E	D	ED	benign
rs9332772	NP_005924	E	K	EK	benign
rs9332837	NP_005924	S	T	ST	benign
rs9332838	NP_005924	P	R	PR	possibly damaging
rs9332839	NP_005924	Q	R	QR	benign
rs9332859	NP_005924	V	I	VI	benign
rs9332861	NP_005924	S	A	SA	benign
rs9332968	NP_000035	I	T	IT	possibly damaging
rs9332969	NP_000035	R	H	RH	possibly damaging
rs9332970	NP_000035	I	T	IT	possibly damaging
rs9332971	NP_000035	R	H	RH	possibly damaging
rs9332973	NP_077742	A	T	AT	benign
rs9332973	NP_077743	A	T	AT	benign
rs9332973	NP_000369	A	T	AT	benign
rs9332973	NP_077744	A	T	AT	benign
rs9333174	XP_167711	R	H	RH	benign
rs9333241	XP_167711	I	V	IV	benign
rs9333269	XP_167711	Q	P	QP	possibly damaging
rs9333342	NP_000705	E	Q	EQ	benign
rs9333548	NP_006493	R	W	RW	probably damaging
rs9333554	NP_006493	L	P	LP	possibly damaging
rs9333555	NP_006493	M	V	MV	benign
rs9333569	NP_000358	M	V	MV	benign
rs9333649	NP_742053	G	S	GS	possibly damaging
rs9333649	NP_742054	G	S	GS	possibly damaging
rs9333649	NP_000229	G	S	GS	possibly damaging

rs9340773	NP_000116	G	S	GS	benign
rs9341248	NP_000095	S	N	SN	benign
rs9341250	NP_000095	R	L	RL	benign
rs9341273	NP_872600	E	G	EG	benign
rs9341273	NP_872601	E	G	EG	benign
rs9341273	NP_009056	E	G	EG	benign
rs9341274	NP_872600	E	Q	EQ	benign
rs9341274	NP_872601	E	Q	EQ	benign
rs9341274	NP_009056	E	Q	EQ	benign
rs9349029	NP_002639	A	V	AV	benign
rs9349666	XP_498100	R	H	RH	benign
rs9350373	NP_003211	R	G	RG	probably damaging
rs9350797	NP_060404	L	P	LP	probably damaging
rs9352000	NP_612450	N	T	NT	benign
rs9352692	XP_498109	R	W	RW	probably damaging
rs9353493	NP_862820	S	F	SF	probably damaging
rs9353493	NP_036513	S	F	SF	probably damaging
rs9353689	NP_055426	A	S	AS	benign
rs9354880	NP_060838	D	E	DE	benign
rs9357283	NP_001362	K	E	KE	benign
rs9357410	NP_055160	L	V	LV	benign
rs9358140	NP_071396	R	K	RK	benign
rs9358936	NP_008978	N	D	ND	benign
rs9362415	XP_048070	I	V	IV	benign
rs9362667	XP_376519	A	T	AT	benign
rs9364381	NP_055169	R	T	RT	benign
rs9365165	NP_068812	G	S	GS	benign
rs9366785	NP_004629	G	S	GS	possibly damaging
rs9366785	NP_542417	G	S	GS	possibly damaging
rs9367358	XP_371825	Q	K	QK	benign
rs9367359	XP_371825	N	D	ND	benign
rs9368354	NP_003211	T	A	TA	benign
rs9368537	NP_149046	A	P	AP	benign
rs9368845	NP_056060	E	K	EK	benign
rs9369265	NP_937796	W	R	WR	benign
rs9369738	NP_722580	K	N	KN	benign
rs9369905	XP_371825	A	D	AD	benign
rs9370096	NP_619639	R	C	RC	benign
rs9370096	NP_733842	R	C	RC	probably damaging
rs9370418	NP_997293	P	S	PS	benign
rs9370867	NP_037394	N	S	NS	benign
rs9371533	NP_631904	T	I	TI	benign
rs9371596	NP_149062	R	K	RK	benign
rs9371596	NP_892006	R	K	RK	benign
rs9373475	NP_115521	V	M	VM	benign
rs9373985	NP_065228	S	R	SR	probably damaging



rs9374088	NP_073602	N	S	NS	benign
rs9374435	NP_940870	N	D	ND	benign
rs9375966	XP_371837	F	S	FS	probably damaging
rs9376338	NP_065073	E	D	ED	benign
rs9378251	NP_000491	P	L	PL	benign
rs9378252	NP_000491	H	L	HL	probably damaging
rs9378517	NP_958437	E	Q	EQ	benign
rs9379861	NP_008978	R	T	RT	possibly damaging
rs9380030	NP_036499	Q	R	QR	benign
rs9380122	NP_112221	Y	H	YH	benign
rs9380279	NP_061978	D	E	DE	benign
rs9380281	NP_004372	V	G	VG	possibly damaging
rs9381199	NP_056070	T	I	TI	benign
rs9381231	NP_055595	Q	R	QR	benign
rs9381320	NP_001244	S	F	SF	possibly damaging
rs9381429	XP_376503	I	V	IV	benign
rs9381472	XP_166443	Q	E	QE	benign
rs9381594	NP_722581	I	V	IV	benign
rs9381921	NP_057579	A	T	AT	benign
rs9381994	NP_619639	Q	R	QR	benign
rs9382400	XP_294139	S	F	SF	possibly damaging
rs9382581	NP_110447	G	S	GS	possibly damaging
rs9382657	NP_065121	D	Y	DY	benign
rs9382658	NP_065121	P	L	PL	benign
rs9383206	NP_694548	R	Q	RQ	benign
rs9383583	NP_631904	R	H	RH	benign
rs9383921	NP_631904	A	T	AT	benign
rs9383993	XP_293984	Q	P	QP	probably damaging
rs9384063	NP_061914	A	T	AT	benign
rs9386758	NP_115507	M	T	MT	possibly damaging
rs9386806	NP_003071	V	I	VI	benign
rs9388450	NP_036391	D	G	DG	probably damaging
rs9388768	XP_027074	T	N	TN	benign
rs9389004	NP_778227	A	T	AT	benign
rs9390367	NP_775105	V	M	VM	benign
rs9390578	NP_056093	L	F	LF	benign
rs9390698	NP_006819	F	L	FL	benign
rs9392161	XP_498040	Q	L	QL	possibly damaging
rs9393728	NP_001723	E	D	ED	benign
rs9394021	XP_373419	R	Q	RQ	benign
rs9394078	NP_862825	V	I	VI	benign
rs9394286	NP_689966	G	V	GV	possibly damaging
rs9394345	NP_057219	A	T	AT	benign
rs9394864	XP_371820	A	T	AT	benign
rs9394866	XP_371820	L	P	LP	probably damaging
rs9395218	NP_056049	V	I	VI	benign

rs9396920	XP_498041	R	W	RW	benign
rs9396946	NP_872358	A	V	AV	benign
rs9397053	XP_498152	N	T	NT	benign
rs9397509	NP_149062	Q	R	QR	benign
rs9397509	NP_892006	Q	R	QR	benign
rs9397576	NP_061914	Q	R	QR	benign
rs9398200	NP_775943	H	R	HR	benign
rs9398250	XP_498128	R	H	RH	benign
rs9405090	NP_006772	P	S	PS	benign
rs9406415	NP_997188	C	R	CR	possibly damaging
rs9408538	XP_376838	E	Q	EQ	benign
rs9410980	XP_212241	H	Y	HY	benign
rs9410980	XP_212238	H	Y	HY	benign
rs9414519	XP_372092	R	H	RH	benign
rs9414519	XP_497031	R	H	RH	possibly damaging
rs9423502	NP_055704	L	V	LV	benign
rs9423590	XP_497211	R	C	RC	benign
rs9424711	XP_496394	I	M	IM	benign
rs9424824	XP_496391	F	S	FS	benign
rs9424824	XP_375869	F	S	FS	benign
rs9424928	XP_496391	L	Q	LQ	benign
rs9424928	XP_375869	L	Q	LQ	benign
rs9425343	NP_079467	I	S	IS	benign
rs9426009	NP_694944	R	C	RC	probably damaging
rs9426581	NP_898885	M	V	MV	benign
rs9427170	NP_689707	T	I	TI	possibly damaging
rs9427398	NP_067674	Q	R	QR	benign
rs9429157	NP_079353	R	H	RH	possibly damaging
rs9433502	XP_370872	D	N	DN	possibly damaging
rs9435714	XP_371227	D	H	DH	possibly damaging
rs9435724	XP_371227	R	Q	RQ	benign
rs9435793	XP_371227	P	S	PS	benign
rs9435890	XP_372825	A	T	AT	benign
rs9435929	XP_060309	D	Y	DY	benign
rs9435942	XP_377644	V	I	VI	possibly damaging
rs9435942	XP_291645	V	I	VI	possibly damaging
rs9435943	XP_377644	F	S	FS	possibly damaging
rs9435943	XP_291645	F	S	FS	possibly damaging
rs9436065	XP_378901	H	Y	HY	benign
rs9436246	XP_371257	S	G	SG	benign
rs9438113	XP_496405	M	V	MV	benign
rs9439226	XP_496541	E	K	EK	benign
rs9439336	XP_377644	S	T	ST	possibly damaging
rs9439336	XP_291645	S	T	ST	possibly damaging
rs9439337	XP_377644	H	Y	HY	probably damaging
rs9439337	XP_291645	H	Y	HY	probably damaging

rs9439338	XP_291645	K	M	KM	possibly damaging
rs9439338	XP_377644	K	M	KM	probably damaging
rs9439352	XP_377644	A	T	AT	benign
rs9439352	XP_291645	A	T	AT	benign
rs9439442	NP_060658	R	Q	RQ	benign
rs9440631	NP_689976	H	Y	HY	possibly damaging
rs9441132	NP_899228	V	G	VG	possibly damaging
rs9441134	NP_899228	L	V	LV	benign
rs9441420	NP_056198	T	A	TA	benign
rs9441940	NP_116279	A	T	AT	benign
rs9442084	XP_496391	N	K	NK	benign
rs9442084	XP_375869	N	K	NK	benign
rs9442114	XP_375869	P	S	PS	possibly damaging
rs9442115	XP_375869	L	V	LV	benign
rs9442123	XP_496391	R	H	RH	benign
rs9442123	XP_375869	R	H	RH	benign
rs9442124	XP_496391	K	R	KR	benign
rs9442124	XP_375869	K	R	KR	benign
rs9442189	NP_004061	R	H	RH	possibly damaging
rs9442277	XP_496343	R	C	RC	probably damaging
rs9442277	XP_496345	R	C	RC	probably damaging
rs9442318	XP_497652	I	F	IF	benign
rs9442320	XP_497652	R	H	RH	benign
rs9442321	XP_497652	Q	E	QE	benign
rs9442323	XP_497652	T	I	TI	benign
rs9442345	XP_496345	A	P	AP	benign
rs9442345	XP_496343	A	T	AT	benign
rs9443201	NP_001554	G	V	GV	benign
rs9443931	XP_498110	T	N	TN	benign
rs9444039	NP_055833	Q	L	QL	benign
rs9444489	XP_048070	D	N	DN	benign
rs9446277	XP_498113	S	G	SG	benign
rs9446983	NP_598000	G	V	GV	probably damaging
rs9448884	NP_898871	A	V	AV	benign
rs9449444	XP_371835	A	V	AV	benign
rs9449586	NP_219479	T	I	TI	benign
rs9451263	NP_055426	R	G	RG	possibly damaging
rs9455142	XP_371832	I	V	IV	benign
rs9455190	XP_498113	V	I	VI	benign
rs9456735	NP_004553	M	L	ML	benign
rs9457280	XP_376554	R	W	RW	possibly damaging
rs9457304	NP_114155	G	S	GS	benign
rs9458138	NP_064518	V	M	VM	benign
rs9459350	NP_659417	L	V	LV	benign
rs9459903	XP_376554	R	P	RP	possibly damaging
rs9460608	NP_060244	K	R	KR	benign

rs9460973	NP_057440	K	N	KN	benign
rs9461446	XP_167149	H	Y	HY	benign
rs9461544	XP_294093	N	S	NS	benign
rs9461623	XP_376479	S	P	SP	benign
rs9461742	NP_062548	V	M	VM	benign
rs9461899	NP_002215	L	V	LV	benign
rs9462487	NP_003731	P	T	PT	benign
rs9463210	XP_291181	A	S	AS	benign
rs9463234	XP_166443	I	M	IM	benign
rs9464003	NP_112534	F	L	FL	probably damaging
rs9464003	NP_036373	F	L	FL	probably damaging
rs9464337	NP_110447	A	D	AD	benign
rs9464393	NP_899236	V	A	VA	benign
rs9464393	NP_056363	V	A	VA	benign
rs9465882	NP_060244	E	K	EK	benign
rs9467010	NP_001482	E	K	EK	possibly damaging
rs9467010	NP_663624	E	K	EK	possibly damaging
rs9467010	NP_663630	E	K	EK	possibly damaging
rs9467927	XP_496798	M	T	MT	benign
rs9468790	NP_001081	D	H	DH	probably damaging
rs9469052	NP_079534	R	H	RH	benign
rs9469073	NP_000583	L	V	LV	benign
rs9469073	NP_001002029	L	V	LV	benign
rs9469081	NP_061978	V	M	VM	benign
rs9469203	NP_002113	A	T	AT	benign
rs9469319	NP_006111	V	M	VM	benign
rs9469425	NP_689948	A	G	AG	benign
rs9469559	NP_002215	R	H	RH	possibly damaging
rs9469912	NP_060224	S	N	SN	benign
rs9469913	NP_060224	Q	H	QH	benign
rs9470262	NP_057219	H	Y	HY	possibly damaging
rs9471515	NP_937796	T	K	TK	benign
rs9471577	NP_004819	M	V	MV	benign
rs9471761	XP_371820	C	R	CR	probably damaging
rs9471966	NP_612153	V	I	VI	benign
rs9471969	NP_006577	S	I	SI	benign
rs9471979	NP_000278	Q	P	QP	possibly damaging
rs9472017	NP_002812	E	D	ED	benign
rs9472017	NP_690622	E	D	ED	benign
rs9472017	NP_690621	E	D	ED	benign
rs9472017	NP_690620	E	D	ED	benign
rs9472017	NP_690619	E	D	ED	benign
rs9473556	NP_000246	T	A	TA	benign
rs9473558	NP_000246	H	R	HR	benign
rs9474034	NP_619639	V	I	VI	benign
rs9475076	XP_294139	S	R	SR	benign

rs9475077	XP_294139	T	N	TN	benign
rs9475437	NP_066551	H	Y	HY	possibly damaging
rs9475580	NP_110447	A	T	AT	benign
rs9475725	NP_065121	Q	P	QP	benign
rs9477211	NP_694548	T	I	TI	benign
rs9477310	NP_694548	S	L	SL	benign
rs9478144	NP_116221	G	R	GR	possibly damaging
rs9478198	NP_005091	R	L	RL	benign
rs9478198	NP_653080	R	L	RL	benign
rs9478945	NP_116221	T	M	TM	benign
rs9479297	NP_149062	K	R	KR	benign
rs9479297	NP_892006	K	R	KR	benign
rs9479413	NP_570970	L	P	LP	probably damaging
rs9481410	NP_940870	M	T	MT	benign
rs9483934	NP_005914	K	N	KN	benign
rs9486039	NP_671488	M	I	MI	benign
rs9488991	XP_496824	N	H	NH	benign
rs9489056	NP_775831	A	E	AE	benign
rs9489124	NP_002935	E	K	EK	benign
rs9490642	XP_069035	N	K	NK	benign
rs9491553	NP_068592	A	T	AT	benign
rs9493386	NP_003958	V	L	VL	benign
rs9493627	NP_004091	G	S	GS	benign
rs9493627	NP_742103	G	S	GS	benign
rs9494888	NP_067633	H	N	HN	possibly damaging
rs9495391	XP_371849	A	P	AP	possibly damaging
rs9495392	XP_371849	I	T	IT	benign
rs9496104	XP_496827	K	E	KE	benign
rs9497606	XP_371850	I	T	IT	benign
rs9497983	NP_006819	V	I	VI	benign
rs9498146	NP_005706	M	L	ML	benign
rs9501302	XP_498072	C	W	CW	probably damaging
rs9501600	NP_115859	A	T	AT	benign
rs9501603	NP_000583	A	S	AS	benign
rs9501603	NP_001002029	A	S	AS	benign
rs9502889	NP_150285	P	T	PT	benign
rs9502890	NP_150285	P	Q	PQ	benign
rs9502980	NP_001444	V	L	VL	benign
rs9503893	NP_789770	V	I	VI	benign
rs9507413	NP_112567	S	G	SG	benign
rs9507425	NP_061911	K	E	KE	benign
rs9508680	NP_115492	D	N	DN	benign
rs9509307	NP_006522	S	N	SN	benign
rs9509307	NP_783195	S	N	SN	benign
rs9509379	XP_293177	F	C	FC	probably damaging
rs9509472	XP_165533	I	V	IV	benign

rs9511510	NP_060921	P	T	PT	possibly damaging
rs9512318	NP_006637	R	H	RH	possibly damaging
rs9513501	NP_056111	Q	H	QH	possibly damaging
rs9514066	NP_000114	R	G	RG	benign
rs9514067	NP_000114	R	G	RG	benign
rs9515235	NP_001837	L	M	LM	benign
rs9516771	NP_703157	K	R	KR	benign
rs9525072	NP_064506	F	L	FL	probably damaging
rs9525320	NP_542418	A	T	AT	benign
rs9525320	NP_075387	A	T	AT	benign
rs9525983	NP_904358	P	S	PS	benign
rs9527025	NP_004786	C	S	CS	benign
rs9527025	NP_710150	C	S	CS	benign
rs9531945	NP_116238	G	R	GR	possibly damaging
rs9532758	NP_004285	N	S	NS	benign
rs9533168	NP_689538	K	N	KN	benign
rs9534264	NP_055885	D	E	DE	benign
rs9534899	NP_003841	A	P	AP	possibly damaging
rs9536041	NP_954872	K	R	KR	benign
rs9536041	NP_061146	K	R	KR	benign
rs9536062	NP_954872	R	G	RG	possibly damaging
rs9536062	NP_061146	R	G	RG	possibly damaging
rs9536314	NP_004786	F	V	FV	possibly damaging
rs9536314	NP_710150	F	V	FV	possibly damaging
rs9538805	XP_497376	M	L	ML	benign
rs9543107	NP_079084	S	L	SL	possibly damaging
rs9547378	NP_115605	P	R	PR	probably damaging
rs9547952	NP_006466	V	M	VM	benign
rs9548505	XP_292193	R	C	RC	probably damaging
rs9548506	XP_292193	T	S	TS	benign
rs9550987	NP_683760	S	T	ST	benign
rs9550987	NP_061117	S	T	ST	benign
rs9551156	NP_061911	S	F	SF	benign
rs9551530	NP_861450	A	P	AP	benign
rs9552017	NP_055057	L	I	LI	benign
rs9552254	NP_006522	S	G	SG	benign
rs9552254	NP_783195	S	G	SG	benign
rs9552285	NP_071904	T	A	TA	benign
rs9552930	NP_055178	S	G	SG	benign
rs9554607	NP_004791	P	H	PH	probably damaging
rs9557582	NP_443099	L	M	LM	benign
rs9557636	NP_443099	A	D	AD	benign
rs9561921	NP_055749	T	M	TM	benign
rs9561921	NP_945319	T	M	TM	benign
rs9562353	XP_038664	R	G	RG	probably damaging
rs9562362	XP_038664	R	H	RH	benign

rs9562936	XP_166966	G	S	GS	benign
rs9566725	NP_004285	L	V	LV	benign
rs9567973	NP_003841	L	V	LV	benign
rs9568497	NP_004120	Y	C	YC	probably damaging
rs9568672	XP_062912	F	L	FL	benign
rs9568878	NP_821074	T	M	TM	benign
rs9568878	NP_821075	T	M	TM	benign
rs9568878	NP_443083	T	M	TM	benign
rs9571019	XP_375027	F	L	FL	benign
rs9574632	NP_005833	Q	H	QH	possibly damaging
rs9576175	NP_660204	E	D	ED	benign
rs9576298	XP_375018	R	S	RS	benign
rs9577273	NP_612439	A	V	AV	benign
rs9578190	NP_005791	S	C	SC	benign
rs9578255	NP_068773	M	I	MI	probably damaging
rs9578751	NP_006428	S	N	SN	benign
rs9579717	NP_055057	C	F	CF	benign
rs9579718	NP_055057	I	V	IV	benign
rs9579953	XP_208097	S	R	SR	benign
rs9580914	NP_694568	S	N	SN	benign
rs9581043	NP_006428	V	I	VI	benign
rs9581180	NP_112567	G	S	GS	benign
rs9584741	NP_002262	E	K	EK	benign
rs9591299	NP_055847	I	V	IV	benign
rs9591299	NP_057012	I	V	IV	benign
rs9591591	XP_370727	S	A	SA	benign
rs9593132	NP_005349	R	C	RC	benign
rs9594182	NP_037470	Q	H	QH	possibly damaging
rs9594223	NP_006466	T	I	TI	possibly damaging
rs9596693	NP_116567	T	A	TA	benign
rs9596693	NP_002581	T	A	TA	benign
rs9599258	XP_497378	H	Y	HY	probably damaging
rs9600066	NP_001721	L	M	LM	benign
rs9600455	XP_375032	T	M	TM	possibly damaging
rs9603462	XP_292193	Q	H	QH	possibly damaging
rs9603498	XP_370722	L	R	LR	possibly damaging
rs9605067	NP_073564	L	I	LI	benign
rs9605067	NP_892029	L	I	LI	benign
rs9605539	NP_059110	D	A	DA	probably damaging
rs9605924	NP_005128	R	H	RH	benign
rs9606030	NP_003495	E	G	EG	benign
rs9606040	NP_003495	T	I	TI	possibly damaging
rs9606199	NP_001661	P	H	PH	possibly damaging
rs9606253	NP_073557	K	N	KN	benign
rs9606739	NP_777637	R	G	RG	possibly damaging
rs9606756	NP_000346	I	V	IV	benign

rs9606877	XP_376007	T	P	TP	benign
rs9607476	NP_006489	A	P	AP	benign
rs9607793	NP_060060	D	N	DN	benign
rs9607828	NP_004999	E	D	ED	benign
rs9607957	NP_055385	S	G	SG	benign
rs9608213	NP_110434	R	Q	RQ	benign
rs9608246	NP_036427	L	V	LV	benign
rs9608278	XP_086876	G	A	GA	benign
rs9608378	NP_004067	H	D	HD	benign
rs9608659	NP_056096	V	M	VM	benign
rs9608893	XP_117224	L	V	LV	benign
rs9608948	NP_055163	R	C	RC	possibly damaging
rs9608948	XP_496502	R	C	RC	probably damaging
rs9608949	NP_055364	R	Q	RQ	benign
rs9608956	NP_777637	S	G	SG	possibly damaging
rs9608973	XP_496524	R	G	RG	probably damaging
rs9609261	XP_496527	T	P	TP	benign
rs9609909	NP_689825	R	H	RH	benign
rs9610522	NP_079231	V	I	VI	benign
rs9610595	NP_000622	S	N	SN	benign
rs9610595	NP_038202	S	N	SN	benign
rs9610624	NP_848647	Y	C	YC	probably damaging
rs9610645	NP_055449	R	C	RC	benign
rs9610728	NP_003926	D	N	DN	benign
rs9610775	NP_055365	Q	R	QR	benign
rs9610842	NP_619538	R	P	RP	possibly damaging
rs9610842	NP_008963	R	P	RP	probably damaging
rs9610856	NP_057175	Y	H	YH	possibly damaging
rs9610875	NP_203744	A	S	AS	benign
rs9611185	NP_002400	G	S	GS	possibly damaging
rs9611217	NP_689725	I	M	IM	benign
rs9611338	NP_056520	W	R	WR	probably damaging
rs9611697	NP_061979	Q	H	QH	possibly damaging
rs9611697	NP_663786	Q	H	QH	possibly damaging
rs9611842	NP_059132	P	T	PT	benign
rs9612720	XP_496520	A	T	AT	benign
rs9613015	NP_115997	T	I	TI	benign
rs9613558	NP_056096	A	P	AP	benign
rs9613680	NP_775781	S	N	SN	benign
rs9613850	NP_036397	S	C	SC	benign
rs9613866	NP_001118	A	V	AV	benign
rs9613866	NP_663782	A	V	AV	benign
rs9614382	NP_073622	A	V	AV	benign
rs9614382	NP_942153	A	V	AV	benign
rs9614646	NP_683515	F	L	FL	probably damaging
rs9614653	NP_683515	R	Q	RQ	benign



rs9614957	NP_851851	P	R	PR	probably damaging
rs9614957	NP_851852	P	R	PR	probably damaging
rs9615313	NP_006062	S	C	SC	benign
rs9615351	NP_055061	E	Q	EQ	benign
rs9616149	NP_055161	C	G	CG	probably damaging
rs9616787	NP_149977	A	T	AT	benign
rs9616851	NP_002963	F	L	FL	possibly damaging
rs9616915	XP_037493	I	T	IT	benign
rs9617013	NP_002963	A	V	AV	benign
rs9617016	NP_002963	K	E	KE	benign
rs9617048	NP_065194	S	C	SC	benign
rs9617621	XP_032996	R	W	RW	possibly damaging
rs9618591	NP_003495	S	N	SN	benign
rs9618779	XP_496493	D	N	DN	benign
rs9619014	XP_496490	R	Q	RQ	benign
rs9619258	NP_006595	D	N	DN	benign
rs9619954	XP_377720	D	N	DN	benign
rs9619955	XP_377720	Q	R	QR	benign
rs9620354	NP_036427	H	R	HR	probably damaging
rs9620392	NP_057411	F	L	FL	benign
rs9620700	NP_653305	A	D	AD	possibly damaging
rs9620774	XP_375963	R	C	RC	possibly damaging
rs9620938	NP_694690	A	V	AV	benign
rs9620938	NP_694691	A	V	AV	benign
rs9620938	NP_066576	A	V	AV	benign
rs9621049	NP_000346	S	F	SF	benign
rs9621295	XP_038520	R	H	RH	possibly damaging
rs9621427	NP_006595	L	M	LM	benign
rs9622227	NP_055125	D	N	DN	possibly damaging
rs9622924	NP_068594	R	C	RC	probably damaging
rs9623417	XP_039495	D	N	DN	benign
rs9624038	NP_004905	E	K	EK	benign
rs9624393	NP_036427	S	R	SR	possibly damaging
rs9624395	NP_036427	R	S	RS	benign
rs9624909	NP_115997	L	S	LS	benign
rs9625412	XP_375963	G	C	GC	benign
rs9626010	NP_073622	L	F	LF	benign
rs9626010	NP_942153	L	F	LF	benign
rs9626584	NP_851851	S	N	SN	benign
rs9626585	NP_851851	R	C	RC	probably damaging
rs9626829	NP_006062	V	I	VI	benign
rs9627529	XP_027105	S	L	SL	benign
rs9628204	NP_001944	G	R	GR	probably damaging
rs9628306	NP_065194	V	M	VM	benign
rs9628315	XP_104657	E	K	EK	benign
rs9628637	NP_004805	D	N	DN	possibly damaging

rs9629827	NP_002735	F	L	FL	probably damaging
rs9631548	XP_171032	H	D	HD	probably damaging
rs9631887	XP_496692	V	L	VL	benign
rs9632073	XP_496692	V	F	VF	benign
rs9633034	XP_498328	L	F	LF	benign
rs9633035	XP_498326	H	R	HR	probably damaging
rs9633035	XP_498328	H	R	HR	probably damaging
rs9633036	XP_498328	K	N	KN	benign
rs9633036	XP_498326	K	N	KN	possibly damaging
rs9633063	XP_498326	Y	C	YC	benign
rs9633063	XP_498328	Y	C	YC	benign
rs9633064	XP_498326	G	D	GD	benign
rs9633064	XP_498328	G	D	GD	benign
rs9635306	NP_004203	G	E	GE	probably damaging
rs9635771	NP_002975	M	V	MV	benign
rs9635772	NP_002975	P	L	PL	possibly damaging
rs9636110	NP_848589	E	K	EK	benign
rs9636139	NP_079316	T	I	TI	possibly damaging
rs9636610	NP_000810	V	I	VI	benign
rs9636819	NP_071419	T	A	TA	benign
rs9636845	NP_787054	C	S	CS	probably damaging
rs9637217	NP_059141	R	K	RK	benign
rs9637517	XP_171054	F	L	FL	benign
rs9640663	NP_002826	I	V	IV	benign
rs9642785	NP_056250	Q	H	QH	benign
rs9642785	NP_904355	Q	H	QH	benign
rs9643859	NP_659441	L	V	LV	benign
rs9645916	NP_078813	T	P	TP	possibly damaging
rs9646748	NP_060164	G	R	GR	benign
rs9646779	NP_004516	R	Q	RQ	benign
rs9647397	NP_598334	V	A	VA	benign
rs9647397	NP_002932	V	A	VA	benign
rs9647503	XP_496692	C	R	CR	probably damaging
rs9647512	XP_496692	A	V	AV	benign
rs9647513	XP_496692	L	F	LF	benign
rs9648837	XP_377976	A	D	AD	benign
rs9649951	NP_055758	V	M	VM	benign
rs9651057	XP_496428	Q	R	QR	benign
rs9651492	NP_000305	D	H	DH	possibly damaging
rs9652549	XP_208847	W	L	WL	possibly damaging
rs9652549	XP_497431	W	L	WL	probably damaging
rs9652588	NP_777584	G	E	GE	possibly damaging
rs9652589	NP_777584	R	K	RK	benign
rs9652855	NP_060233	P	R	PR	probably damaging
rs9653154	XP_290865	V	L	VL	benign
rs9653599	NP_056156	L	V	LV	benign

rs9655651	NP_004659	L	I	LI	benign
rs9655672	XP_294316	A	T	AT	benign
rs9656065	XP_168583	R	Q	RQ	benign
rs9656982	NP_620172	M	T	MT	benign
rs9657362	NP_055444	L	F	LF	benign
rs9657963	NP_001552	A	T	AT	benign
rs9657965	NP_001552	K	N	KN	benign
rs9657979	NP_001552	A	D	AD	benign
rs9658279	NP_000611	P	S	PS	benign
rs9658356	NP_000611	D	A	DA	benign
rs9658403	NP_000611	N	D	ND	benign
rs9658445	NP_000611	G	D	GD	benign
rs9658482	NP_000611	Q	R	QR	possibly damaging
rs9658587	NP_001545	R	W	RW	probably damaging
rs9658616	NP_002169	R	G	RG	possibly damaging
rs9658625	NP_003569	E	G	EG	possibly damaging
rs9658650	NP_001266	E	G	EG	probably damaging
rs9658654	NP_001266	E	K	EK	benign
rs9658655	NP_001266	E	D	ED	benign
rs9658662	NP_001266	R	W	RW	benign
rs9658663	NP_001266	A	G	AG	benign
rs9658664	NP_001266	G	S	GS	possibly damaging
rs9658665	NP_001266	L	P	LP	benign
rs9658667	NP_001266	G	S	GS	possibly damaging
rs9658668	NP_001266	P	L	PL	benign
rs9658669	NP_001266	R	Q	RQ	possibly damaging
rs9658928	XP_496351	G	S	GS	benign
rs9659529	NP_075390	T	R	TR	possibly damaging
rs9659602	NP_005716	R	L	RL	possibly damaging
rs9659608	NP_002146	A	S	AS	benign
rs9660322	NP_653174	R	K	RK	benign
rs9661554	NP_075390	R	S	RS	probably damaging
rs9661731	XP_498818	W	R	WR	possibly damaging
rs9661732	XP_498818	L	S	LS	benign
rs9662001	XP_496692	S	F	SF	benign
rs9663081	XP_371304	E	D	ED	benign
rs9663081	XP_371302	E	D	ED	benign
rs9663920	NP_071407	D	N	DN	benign
rs9664466	NP_060497	C	F	CF	probably damaging
rs9664945	NP_940898	A	T	AT	benign
rs9665346	NP_937868	G	R	GR	benign
rs9665861	NP_006628	V	I	VI	benign
rs9666086	NP_006628	F	S	FS	possibly damaging
rs9666257	NP_004696	S	T	ST	benign
rs9666380	NP_004696	Y	C	YC	possibly damaging
rs9666607	NP_000601	R	K	RK	benign

rs9666739	NP_004696	H	N	HN	probably damaging
rs9666809	NP_065091	C	R	CR	probably damaging
rs9666819	NP_065091	V	A	VA	benign
rs9666847	NP_068373	P	S	PS	benign
rs9666948	NP_065091	K	R	KR	benign
rs9666956	NP_065091	Y	C	YC	probably damaging
rs9667009	NP_694997	Q	R	QR	benign
rs9667365	NP_065091	R	W	RW	possibly damaging
rs9667990	NP_003632	A	P	AP	benign
rs9668527	NP_061959	V	M	VM	benign
rs9668786	XP_209597	V	M	VM	benign
rs9671369	NP_689805	T	M	TM	benign
rs9672065	NP_071934	G	S	GS	benign
rs9672139	XP_290629	M	L	ML	benign
rs9673015	XP_373616	P	Q	PQ	benign
rs9673026	XP_375247	R	M	RM	benign
rs9673733	NP_958802	S	C	SC	possibly damaging
rs9673733	NP_963892	S	C	SC	possibly damaging
rs9674145	NP_689672	L	S	LS	benign
rs9674961	XP_290768	S	N	SN	benign
rs9675246	NP_003762	R	Q	RQ	possibly damaging
rs9675365	XP_371111	F	L	FL	benign
rs9676012	XP_371111	R	C	RC	possibly damaging
rs9676259	NP_065931	G	S	GS	benign
rs9676419	NP_114147	M	V	MV	benign
rs9676436	NP_443116	E	A	EA	benign
rs9677004	NP_065931	T	A	TA	benign
rs9677948	NP_689598	A	V	AV	benign
rs9678851	NP_060628	T	P	TP	possibly damaging
rs9679004	NP_060628	R	C	RC	possibly damaging
rs9680520	XP_372891	Q	H	QH	benign
rs9680526	NP_062547	S	T	ST	benign
rs9680605	XP_372891	N	S	NS	benign
rs9680797	NP_699165	P	L	PL	probably damaging
rs9680797	NP_878315	P	L	PL	probably damaging
rs9683564	NP_689988	S	L	SL	possibly damaging
rs9684120	XP_497976	H	R	HR	probably damaging
rs9684786	NP_775931	G	D	GD	benign
rs9685645	NP_058646	I	V	IV	benign
rs9686117	XP_373053	T	M	TM	benign
rs9686309	XP_373053	R	G	RG	possibly damaging
rs9686540	NP_113683	E	K	EK	benign
rs9686540	NP_113684	E	K	EK	benign
rs9686540	NP_061728	E	K	EK	benign
rs9687038	XP_209704	F	I	FI	benign
rs9687593	NP_060899	A	V	AV	benign

rs9687945	NP_510968	F	L	FL	benign
rs9687959	XP_373053	A	T	AT	benign
rs9688544	XP_496798	V	L	VL	benign
rs9688769	XP_496798	G	C	GC	probably damaging
rs9689241	NP_996791	Y	S	YS	benign
rs9689248	NP_996791	I	V	IV	benign
rs9690250	XP_379488	L	H	LH	benign
rs9690800	XP_379488	S	R	SR	benign
rs9691650	NP_775949	K	M	KM	possibly damaging
rs9692271	XP_499090	G	A	GA	benign
rs9692676	XP_209910	I	L	IL	benign
rs9693154	NP_803875	V	A	VA	benign
rs9693865	XP_209910	R	P	RP	possibly damaging
rs9693999	NP_620172	E	K	EK	benign
rs9694043	XP_376756	T	A	TA	benign
rs9694757	XP_373243	S	R	SR	benign
rs9694759	XP_373243	P	L	PL	possibly damaging
rs9694780	XP_373243	T	M	TM	benign
rs9694942	XP_498268	G	E	GE	benign
rs9696000	XP_088525	R	Q	RQ	benign
rs9696234	XP_095991	F	S	FS	benign
rs9696578	NP_937895	R	L	RL	probably damaging
rs9697215	NP_057119	R	Q	RQ	benign
rs9697293	XP_372195	Q	R	QR	benign
rs9697983	NP_036216	S	A	SA	benign
rs9700408	XP_496332	S	N	SN	benign
rs9701796	NP_689418	C	S	CS	probably damaging
rs9701962	XP_291396	H	R	HR	benign
rs9710741	XP_377778	C	G	CG	probably damaging
rs9713272	XP_376653	R	C	RC	possibly damaging
rs9713744	XP_371630	P	A	PA	possibly damaging
rs9717366	XP_496798	R	S	RS	benign
rs9717478	XP_496798	K	N	KN	benign
rs9718512	XP_295213	P	S	PS	probably damaging
rs9720197	XP_373243	H	Y	HY	benign
rs9720235	XP_373243	V	I	VI	benign
rs9721012	XP_373243	S	R	SR	benign
rs9722517	XP_498326	T	I	TI	benign
rs9722517	XP_498328	T	I	TI	benign
rs9723115	XP_372191	A	V	AV	benign
rs9724009	NP_005368	E	D	ED	benign
rs9724194	XP_208423	L	F	LF	possibly damaging
rs9724654	XP_291395	M	T	MT	benign
rs9725423	NP_055816	V	G	VG	possibly damaging
rs9725770	XP_496391	E	A	EA	possibly damaging
rs9725770	XP_375869	E	A	EA	possibly damaging

rs9726290	XP_496343	S	G	SG	benign
rs9726290	XP_496345	S	G	SG	benign
rs9727080	NP_056198	Q	P	QP	benign
rs9728577	NP_075390	E	K	EK	benign
rs9729276	NP_005946	P	S	PS	benign
rs9729630	XP_496448	T	S	TS	benign
rs9730002	XP_375869	M	I	MI	possibly damaging
rs9730002	XP_496391	M	I	MI	probably damaging
rs9740587	XP_165533	I	V	IV	benign
rs9743610	XP_497418	P	L	PL	probably damaging
rs9745522	NP_061982	D	E	DE	benign
rs9746478	NP_001941	N	S	NS	benign
rs9746539	XP_377407	S	G	SG	benign
rs9747229	XP_371089	R	P	RP	benign
rs9747481	XP_371089	R	C	RC	benign
rs9747577	XP_371089	S	G	SG	benign
rs9748611	XP_371111	V	M	VM	benign
rs9752887	XP_371495	M	T	MT	benign
rs9754221	NP_000865	K	N	KN	benign
rs9754221	NP_997467	K	N	KN	benign
rs9754221	NP_997468	K	N	KN	benign
rs9754445	XP_372891	H	Q	HQ	benign
rs9754477	XP_372891	A	T	AT	benign
rs9760377	NP_787114	V	A	VA	benign
rs9762106	NP_787114	H	D	HD	probably damaging
rs9762117	NP_787114	V	M	VM	benign
rs9762741	XP_497958	L	F	LF	benign
rs9768124	NP_005605	I	M	IM	benign
rs9768425	XP_373223	G	R	GR	benign
rs9768449	XP_373223	E	K	EK	benign
rs9769523	NP_982255	E	K	EK	benign
rs9769523	NP_066953	E	K	EK	benign
rs9772659	XP_499103	P	R	PR	probably damaging
rs9772727	XP_498273	E	D	ED	benign
rs9774383	XP_499103	K	N	KN	benign
rs9774677	NP_803875	D	E	DE	benign
rs9776578	NP_954714	L	M	LM	benign
rs9781594	XP_498374	S	L	SL	benign
rs9782980	NP_689820	C	G	CG	probably damaging
rs9783355	XP_372354	P	H	PH	probably damaging
rs9783569	XP_116980	G	S	GS	benign
rs9784427	XP_039169	R	H	RH	benign
rs9788233	NP_116069	R	G	RG	possibly damaging
rs9788592	XP_208766	G	E	GE	benign
rs9790914	XP_371731	V	M	VM	benign
rs9790916	NP_005500	V	M	VM	benign

rs9791092	NP_005500	T	S	TS	benign
rs9791685	XP_373223	L	P	LP	possibly damaging
rs9792879	NP_114127	P	S	PS	possibly damaging
rs9792997	NP_114127	Y	H	YH	benign
rs9794035	NP_817124	T	A	TA	probably damaging
rs9796510	XP_496031	V	I	VI	benign
rs9796636	XP_497472	R	S	RS	benign
rs9797512	XP_371155	R	H	RH	benign
rs9797535	XP_371155	W	R	WR	benign
rs9797600	XP_371155	E	G	EG	benign
rs9797605	XP_371155	A	S	AS	benign
rs9801180	XP_379488	E	A	EA	benign
rs9801888	XP_496941	P	S	PS	possibly damaging
rs9802078	XP_496941	T	A	TA	benign
rs9802080	XP_496941	R	W	RW	possibly damaging
rs9802082	XP_496941	S	G	SG	benign
rs9802130	XP_209910	M	T	MT	benign
rs9802152	NP_078997	D	H	DH	possibly damaging
rs9803005	NP_997301	T	A	TA	benign
rs9803965	NP_015563	Y	C	YC	benign
rs9803965	NP_015562	Y	C	YC	benign
rs9803965	NP_004790	Y	C	YC	benign
rs9804140	NP_001739	K	R	KR	benign
rs9804460	NP_036285	A	V	AV	benign
rs9804905	NP_476511	N	S	NS	benign
rs9804905	NP_055591	N	S	NS	benign
rs9804905	NP_631940	N	S	NS	benign
rs9804905	NP_476510	N	S	NS	benign
rs9806123	NP_060328	P	R	PR	possibly damaging
rs9806859	NP_958802	R	W	RW	probably damaging
rs9806859	NP_963892	R	W	RW	probably damaging
rs9806942	NP_899180	V	M	VM	benign
rs9806945	NP_689977	I	T	IT	benign
rs9806961	NP_899180	K	N	KN	benign
rs9807056	NP_077024	S	R	SR	possibly damaging
rs9807555	XP_496269	H	R	HR	benign
rs9807556	NP_003794	E	V	EV	possibly damaging
rs9807633	XP_496269	H	P	HP	probably damaging
rs9807826	XP_497611	C	R	CR	benign
rs9807852	XP_497611	W	R	WR	probably damaging
rs9808232	NP_004841	T	N	TN	benign
rs9808753	NP_005525	Q	R	QR	benign
rs9809219	XP_171032	R	W	RW	probably damaging
rs9809384	XP_210562	I	V	IV	benign
rs9809404	XP_210562	I	M	IM	benign
rs9810085	NP_031363	L	P	LP	benign

rs9810085	NP_005097	L	P	LP	benign
rs9810320	XP_293581	M	V	MV	benign
rs9810686	NP_871626	E	V	EV	possibly damaging
rs9810686	NP_002709	E	V	EV	possibly damaging
rs9811237	NP_055230	R	Q	RQ	benign
rs9811715	NP_060828	R	H	RH	benign
rs9813017	NP_037506	N	S	NS	benign
rs9813235	NP_001448	V	M	VM	benign
rs9813489	NP_660305	T	I	TI	benign
rs9814373	NP_653320	S	G	SG	benign
rs9814557	NP_002709	D	G	DG	possibly damaging
rs9816575	XP_496629	R	G	RG	possibly damaging
rs9816587	XP_496629	L	V	LV	benign
rs9816693	NP_056957	L	F	LF	benign
rs9816941	NP_054858	G	R	GR	probably damaging
rs9817771	NP_203528	S	T	ST	benign
rs9818345	NP_003232	Y	H	YH	benign
rs9818735	NP_078973	P	R	PR	probably damaging
rs9819218	NP_203528	S	C	SC	benign
rs9819927	NP_002653	P	A	PA	possibly damaging
rs9820367	NP_004357	S	T	ST	benign
rs9820986	NP_699184	P	L	PL	probably damaging
rs9822970	NP_055594	S	I	SI	benign
rs9823227	XP_497912	M	V	MV	benign
rs9823779	NP_919269	R	W	RW	probably damaging
rs9825578	NP_008958	V	I	VI	benign
rs9826032	NP_002709	P	L	PL	benign
rs9826032	NP_871626	P	L	PL	probably damaging
rs9826057	XP_497937	S	N	SN	benign
rs9826308	NP_740750	H	Q	HQ	benign
rs9826308	NP_620161	H	Q	HQ	benign
rs9826325	NP_055893	F	L	FL	benign
rs9826737	NP_996898	S	L	SL	benign
rs9827333	NP_002653	V	I	VI	benign
rs9827576	NP_919269	I	V	IV	benign
rs9827689	NP_056155	E	D	ED	benign
rs9828502	XP_210562	I	V	IV	benign
rs9830253	XP_067585	A	T	AT	benign
rs9830589	NP_115513	G	R	GR	possibly damaging
rs9830664	NP_005569	G	S	GS	possibly damaging
rs9830734	XP_291080	I	V	IV	benign
rs9830744	NP_071735	M	I	MI	benign
rs9831516	XP_114303	S	L	SL	benign
rs9832794	XP_376207	R	C	RC	benign
rs9832850	NP_001448	L	R	LR	probably damaging
rs9833275	NP_444255	V	L	VL	benign



rs9833275	NP_444257	V	L	VL	benign
rs9833275	NP_444253	V	L	VL	benign
rs9834623	XP_371617	M	V	MV	benign
rs9834639	XP_496641	P	T	PT	benign
rs9835229	XP_376232	L	P	LP	possibly damaging
rs9835332	NP_056039	R	T	RT	benign
rs9835485	NP_061121	T	A	TA	benign
rs9835659	NP_055951	V	M	VM	benign
rs9835920	NP_005920	N	S	NS	benign
rs9837637	NP_006216	G	S	GS	benign
rs9838238	NP_563615	I	M	IM	benign
rs9838943	XP_371617	H	R	HR	benign
rs9839680	XP_496652	L	P	LP	possibly damaging
rs9840172	NP_031363	N	D	ND	benign
rs9840172	NP_005097	N	D	ND	benign
rs9840317	NP_008883	R	Q	RQ	benign
rs9840720	XP_497912	I	M	IM	benign
rs9840779	NP_002069	N	S	NS	benign
rs9840993	NP_444254	S	P	SP	benign
rs9840993	NP_444255	S	P	SP	benign
rs9840993	NP_444256	S	P	SP	benign
rs9840993	NP_444257	S	P	SP	benign
rs9840993	NP_444253	S	P	SP	benign
rs9841174	NP_006208	E	G	EG	benign
rs9841752	NP_115894	I	T	IT	benign
rs9843117	XP_497949	E	D	ED	benign
rs9843677	NP_976248	M	V	MV	benign
rs9843784	NP_057178	I	L	IL	benign
rs9843840	NP_003839	K	R	KR	benign
rs9844788	NP_005956	D	E	DE	benign
rs9844788	NP_444254	D	E	DE	benign
rs9844788	NP_444255	D	E	DE	benign
rs9844788	NP_444256	D	E	DE	benign
rs9844788	NP_444257	D	E	DE	benign
rs9844788	NP_444258	D	E	DE	benign
rs9844788	NP_444253	D	E	DE	benign
rs9845073	XP_209550	V	I	VI	benign
rs9847555	NP_005487	K	E	KE	benign
rs9847584	NP_004794	P	H	PH	probably damaging
rs9848466	XP_293581	S	N	SN	benign
rs9849888	NP_689885	R	H	RH	benign
rs9851180	NP_113646	C	Y	CY	probably damaging
rs9851219	NP_071735	T	A	TA	benign
rs9851222	NP_149075	R	T	RT	possibly damaging
rs9852079	NP_003225	C	W	CW	probably damaging
rs9852318	XP_291062	A	E	AE	benign

rs9852894	XP_291085	T	I	TI	benign
rs9853146	XP_497911	M	T	MT	benign
rs9853408	NP_775928	A	T	AT	benign
rs9853426	NP_203528	A	T	AT	benign
rs9856308	NP_065941	T	I	TI	benign
rs9856575	NP_009115	I	V	IV	benign
rs9858111	NP_056275	I	T	IT	benign
rs9858355	NP_004177	P	H	PH	probably damaging
rs9858476	XP_039627	V	I	VI	benign
rs9859242	NP_689752	Q	H	QH	benign
rs9859941	NP_056391	H	R	HR	possibly damaging
rs9861353	NP_665698	R	H	RH	possibly damaging
rs9862221	NP_071377	E	D	ED	benign
rs9862559	NP_004104	G	S	GS	possibly damaging
rs9862559	NP_066360	G	S	GS	possibly damaging
rs9863796	XP_291062	V	L	VL	benign
rs9864861	NP_078789	E	D	ED	benign
rs9865242	NP_740750	E	Q	EQ	benign
rs9865242	NP_620161	E	Q	EQ	benign
rs9865715	NP_004382	P	S	PS	probably damaging
rs9865746	NP_000452	D	G	DG	benign
rs9866564	NP_996898	R	P	RP	possibly damaging
rs9866806	XP_291062	P	A	PA	benign
rs9867246	NP_073573	S	F	SF	benign
rs9868175	NP_612144	K	M	KM	benign
rs9868484	XP_036988	H	Y	HY	probably damaging
rs9868669	XP_209569	S	F	SF	possibly damaging
rs9868848	NP_071735	L	P	LP	probably damaging
rs9868950	NP_653316	Q	P	QP	possibly damaging
rs9868985	NP_079456	S	L	SL	benign
rs9870003	NP_705615	P	S	PS	benign
rs9870003	NP_705616	P	S	PS	possibly damaging
rs9870212	NP_620309	A	T	AT	benign
rs9870441	NP_689912	E	K	EK	benign
rs9870460	NP_002832	Q	R	QR	benign
rs9870470	XP_376207	M	V	MV	benign
rs9871062	XP_171032	I	T	IT	benign
rs9871671	NP_653240	R	C	RC	possibly damaging
rs9872477	XP_171054	R	K	RK	benign
rs9872512	NP_116176	R	H	RH	possibly damaging
rs9872691	XP_210562	I	V	IV	benign
rs9872760	NP_699184	M	I	MI	benign
rs9872799	NP_071432	E	A	EA	benign
rs9873604	NP_061121	T	I	TI	benign
rs9874077	NP_073753	D	G	DG	benign
rs9875356	NP_078789	R	H	RH	benign

rs9876316	XP_373004	H	L	HL	probably damaging
rs9876490	NP_689829	A	E	AE	benign
rs9876921	NP_003232	V	I	VI	benign
rs9878928	NP_003856	N	S	NS	benign
rs9880759	XP_376653	L	P	LP	benign
rs9880989	NP_115639	A	D	AD	benign
rs9883772	XP_171032	T	M	TM	benign
rs9883988	NP_694996	R	Q	RQ	benign
rs9885412	NP_078993	K	R	KR	benign
rs9885480	NP_777549	G	S	GS	benign
rs9885672	NP_055660	V	A	VA	benign
rs9885914	NP_060110	N	S	NS	benign
rs9885986	XP_069609	R	H	RH	possibly damaging
rs9886043	NP_000713	E	D	ED	benign
rs9886834	XP_114685	R	K	RK	benign
rs9888937	NP_115582	R	K	RK	benign
rs98889363	XP_375397	E	D	ED	benign
rs98889851	NP_004701	E	K	EK	benign
rs9890011	NP_115727	V	F	VF	benign
rs9890362	NP_004095	R	H	RH	possibly damaging
rs9890466	NP_001131	V	M	VM	probably damaging
rs9890631	NP_443160	I	M	IM	benign
rs9890664	NP_839947	R	Q	RQ	benign
rs9890721	NP_115509	R	W	RW	probably damaging
rs9891146	NP_858041	V	I	VI	benign
rs9891176	NP_060816	E	Q	EQ	benign
rs9891361	NP_002265	V	A	VA	benign
rs9891361	NP_705694	V	A	VA	benign
rs9891398	NP_000258	D	A	DA	possibly damaging
rs9891498	NP_689811	S	F	SF	benign
rs9891699	NP_036525	P	S	PS	benign
rs9891763	XP_375387	A	T	AT	benign
rs9892148	NP_783165	L	M	LM	benign
rs9892256	NP_001363	R	Q	RQ	possibly damaging
rs9892290	NP_001363	M	V	MV	benign
rs9892491	NP_003546	Q	H	QH	benign
rs9892705	NP_116035	A	E	AE	possibly damaging
rs9892938	NP_775818	G	S	GS	benign
rs9893211	NP_006604	D	E	DE	possibly damaging
rs9893451	NP_653282	R	C	RC	possibly damaging
rs9893710	XP_496238	K	E	KE	benign
rs9893754	NP_004749	N	T	NT	benign
rs9893787	NP_002269	R	C	RC	benign
rs9894254	NP_000190	V	I	VI	benign
rs9894995	XP_290799	D	E	DE	benign
rs9895012	NP_005164	R	C	RC	benign

rs9895012	NP_777613	R	C	RC	benign
rs9895012	NP_777614	R	C	RC	benign
rs9895012	NP_777616	R	C	RC	benign
rs9895012	NP_777617	R	C	RC	benign
rs9895012	NP_777618	R	C	RC	benign
rs9895012	NP_777615	R	C	RC	benign
rs9895097	NP_113686	L	F	LF	benign
rs9895154	NP_803190	R	H	RH	benign
rs9895373	NP_009198	S	F	SF	benign
rs9895749	NP_113644	E	K	EK	benign
rs9895916	NP_001132	R	H	RH	benign
rs9895963	NP_060597	S	F	SF	possibly damaging
rs9896695	NP_981959	C	S	CS	probably damaging
rs9896695	NP_981960	C	S	CS	probably damaging
rs9896695	NP_056177	C	S	CS	probably damaging
rs9896695	NP_981958	C	S	CS	probably damaging
rs9896965	NP_003962	N	S	NS	benign
rs9896991	NP_115763	R	W	RW	possibly damaging
rs9897046	NP_114165	S	G	SG	benign
rs9897165	NP_060456	R	H	RH	benign
rs9897693	NP_777360	P	L	PL	possibly damaging
rs9897693	NP_002807	P	L	PL	possibly damaging
rs9898003	NP_061142	M	V	MV	possibly damaging
rs9898003	NP_758424	M	V	MV	possibly damaging
rs9898164	NP_853517	R	W	RW	probably damaging
rs9898682	NP_004518	S	L	SL	benign
rs9898682	NP_054705	S	L	SL	possibly damaging
rs9898983	NP_689483	R	L	RL	possibly damaging
rs9899000	XP_496197	Y	S	YS	benign
rs9899032	NP_004701	L	Q	LQ	possibly damaging
rs9899862	NP_116035	D	E	DE	benign
rs9901177	XP_496241	H	R	HR	benign
rs9901177	NP_004685	H	R	HR	benign
rs9901356	NP_002542	L	V	LV	benign
rs9901673	NP_001242	K	Q	KQ	benign
rs9901675	NP_001242	A	T	AT	benign
rs9901850	NP_006364	P	A	PA	benign
rs9902332	NP_848613	G	W	GW	possibly damaging
rs9902398	NP_443160	C	Y	CY	probably damaging
rs9902726	NP_060411	G	S	GS	benign
rs9903215	NP_620148	A	T	AT	probably damaging
rs9903564	NP_006486	G	R	GR	possibly damaging
rs9903671	XP_497524	E	Q	EQ	benign
rs9903685	NP_002270	P	A	PA	benign
rs9903686	NP_002270	L	V	LV	benign
rs9904065	NP_443160	Q	R	QR	benign

rs9904102	NP_003762	R	C	RC	probably damaging
rs9904366	NP_954712	A	T	AT	benign
rs9905086	XP_497524	S	R	SR	benign
rs9905106	NP_203693	R	Q	RQ	benign
rs9905402	NP_000171	W	R	WR	benign
rs9905497	NP_060427	V	I	VI	benign
rs9905604	NP_004749	W	R	WR	possibly damaging
rs9905684	XP_497524	I	V	IV	benign
rs9905742	NP_055335	M	L	ML	benign
rs9905749	NP_055048	N	D	ND	possibly damaging
rs9905900	NP_000142	Q	H	QH	possibly damaging
rs9906179	XP_497524	I	V	IV	benign
rs9906421	NP_060247	S	G	SG	benign
rs9906590	NP_006032	E	K	EK	benign
rs9907144	NP_114171	C	R	CR	possibly damaging
rs9907167	NP_127499	H	Y	HY	benign
rs9907167	NP_127500	H	Y	HY	benign
rs9907167	NP_055737	H	Y	HY	benign
rs9907167	NP_127497	H	Y	HY	benign
rs9907259	XP_496207	L	F	LF	benign
rs9907420	XP_290743	L	S	LS	benign
rs9907627	NP_000258	E	K	EK	benign
rs9907701	NP_443160	N	D	ND	benign
rs9908032	NP_690868	R	S	RS	possibly damaging
rs9908304	NP_872303	M	T	MT	benign
rs9908304	XP_496218	T	M	TM	benign
rs9908389	XP_496218	M	T	MT	benign
rs9908414	XP_290737	I	T	IT	benign
rs9908743	XP_375387	P	S	PS	possibly damaging
rs9909216	NP_525021	P	S	PS	benign
rs9909321	NP_113618	A	T	AT	benign
rs9909732	NP_004609	D	N	DN	benign
rs9909776	NP_072166	Y	H	YH	benign
rs9910051	NP_079133	T	S	TS	benign
rs9910204	NP_003761	G	C	GC	probably damaging
rs9910506	NP_612372	M	I	MI	possibly damaging
rs9910858	NP_002392	A	G	AG	benign
rs9910858	NP_976226	A	G	AG	benign
rs9911083	NP_060512	V	A	VA	benign
rs9911226	XP_497524	P	T	PT	possibly damaging
rs9911231	NP_653278	L	P	LP	possibly damaging
rs9911231	NP_945193	L	P	LP	possibly damaging
rs9911283	NP_004609	N	D	ND	possibly damaging
rs9911502	NP_997229	N	K	NK	benign
rs9911632	NP_004515	R	W	RW	probably damaging
rs9911649	NP_658988	G	E	GE	probably damaging

rs9912090	XP_497524	N	S	NS	benign
rs9912267	XP_372668	T	I	TI	possibly damaging
rs9912315	NP_001298	V	F	VF	possibly damaging
rs9912492	NP_115948	G	R	GR	benign
rs9912805	NP_060874	A	G	AG	benign
rs9913145	NP_004749	Q	R	QR	benign
rs9913158	NP_005164	D	N	DN	benign
rs9913158	NP_777613	D	N	DN	benign
rs9913158	NP_777614	D	N	DN	benign
rs9913158	NP_777616	D	N	DN	benign
rs9913158	NP_777617	D	N	DN	benign
rs9913158	NP_777618	D	N	DN	benign
rs9913158	NP_777615	D	N	DN	benign
rs9913430	NP_073738	S	T	ST	benign
rs9913494	NP_001363	R	C	RC	probably damaging
rs9913494	NP_004653	R	C	RC	probably damaging
rs9913621	NP_004646	V	M	VM	benign
rs9913763	XP_375408	Q	H	QH	benign
rs9913923	NP_443160	G	S	GS	benign
rs9914050	XP_371019	R	P	RP	benign
rs9915020	XP_496237	P	H	PH	probably damaging
rs9916194	XP_496217	G	E	GE	possibly damaging
rs9916254	NP_759018	G	S	GS	benign
rs9916254	NP_525022	G	S	GS	benign
rs9916475	NP_003761	S	C	SC	benign
rs9916482	NP_001363	T	A	TA	benign
rs9916484	NP_003761	T	A	TA	benign
rs9916524	NP_940903	W	R	WR	possibly damaging
rs9916628	NP_002539	F	Y	FY	benign
rs9916724	NP_003761	N	S	NS	benign
rs9916987	NP_000757	F	Y	FY	benign
rs9917722	NP_001032	T	S	TS	benign
rs9917821	NP_065080	N	H	NH	benign
rs9919155	XP_039721	L	P	LP	probably damaging
rs9921199	XP_496122	H	Q	HQ	possibly damaging
rs9921748	NP_877417	M	V	MV	possibly damaging
rs9921812	NP_877417	D	G	DG	benign
rs9921827	NP_877417	Q	R	QR	benign
rs9923813	NP_872299	S	T	ST	benign
rs9924150	NP_872423	D	N	DN	possibly damaging
rs9924150	XP_058743	N	D	ND	possibly damaging
rs9924241	NP_066921	A	V	AV	benign
rs9924371	NP_877417	W	R	WR	benign
rs9925969	NP_000287	F	L	FL	possibly damaging
rs9926580	NP_777584	A	T	AT	benign
rs9926625	XP_372607	V	I	VI	benign

rs9927389	NP_005814	A	V	AV	benign
rs9928053	NP_060358	R	Q	RQ	benign
rs9928233	NP_060009	M	L	ML	benign
rs9928302	NP_659461	P	H	PH	probably damaging
rs9928967	NP_078811	A	T	AT	benign
rs9930567	NP_150254	A	T	AT	benign
rs9930567	NP_000968	A	T	AT	benign
rs9930623	NP_689550	K	E	KE	benign
rs9930780	XP_497494	R	C	RC	possibly damaging
rs9930821	XP_056254	R	L	RL	benign
rs9930984	NP_620685	L	I	LI	benign
rs9930984	NP_955387	L	I	LI	benign
rs9931725	XP_496122	T	A	TA	benign
rs9931747	XP_496122	K	R	KR	benign
rs9932277	XP_064152	G	R	GR	benign
rs9932495	XP_370946	V	I	VI	benign
rs9932770	NP_055113	A	T	AT	benign
rs9932912	NP_065769	A	T	AT	benign
rs9933642	NP_057319	N	K	NK	possibly damaging
rs9934067	NP_065706	V	M	VM	benign
rs9934100	NP_078982	Y	N	YN	probably damaging
rs9934227	NP_950247	N	S	NS	benign
rs9934227	NP_955535	N	S	NS	benign
rs9934272	NP_877417	K	N	KN	benign
rs9934277	NP_872369	P	L	PL	probably damaging
rs9934667	NP_060589	V	M	VM	benign
rs9934734	NP_775322	T	P	TP	benign
rs9934849	NP_000284	E	V	EV	possibly damaging
rs9934856	NP_877417	L	V	LV	benign
rs9934891	NP_940893	E	K	EK	benign
rs9935059	NP_037434	H	R	HR	benign
rs9935113	NP_877417	G	C	GC	probably damaging
rs9936675	NP_597707	A	T	AT	benign
rs9936785	NP_000287	H	R	HR	probably damaging
rs9937169	NP_877417	N	S	NS	benign
rs9937453	XP_370944	N	S	NS	benign
rs9938333	NP_877417	I	V	IV	benign
rs9938543	NP_115582	P	L	PL	benign
rs9938550	NP_079469	T	A	TA	benign
rs9939768	NP_848611	Q	E	QE	benign
rs9941182	XP_058743	D	E	DE	possibly damaging
rs9941182	NP_872423	E	D	ED	possibly damaging
rs9941564	XP_496581	A	E	AE	benign
rs9941690	XP_496581	K	R	KR	benign
rs9941691	XP_496581	S	G	SG	benign
rs9941840	NP_003480	V	I	VI	benign

rs9942557	NP_060804	D	G	DG	benign
rs9943012	XP_066695	E	G	EG	possibly damaging
rs9943208	NP_003456	G	R	GR	probably damaging
rs9943351	NP_898881	I	T	IT	benign
rs9943856	NP_060693	P	L	PL	benign
rs9945510	XP_497576	I	T	IT	benign
rs9946214	NP_002965	I	F	IF	possibly damaging
rs9948144	XP_371116	T	P	TP	benign
rs9948825	NP_056949	W	R	WR	probably damaging
rs9950267	NP_005550	L	S	LS	possibly damaging
rs9950585	NP_919431	S	T	ST	benign
rs9950781	XP_371116	K	R	KR	benign
rs9951523	NP_005206	L	F	LF	benign
rs9952370	NP_000218	T	A	TA	benign
rs9952370	NP_937762	T	A	TA	benign
rs9959396	NP_005916	V	M	VM	benign
rs9960464	NP_009094	Q	R	QR	benign
rs9961682	XP_113962	I	V	IV	benign
rs9963243	NP_006024	G	S	GS	benign
rs9963473	NP_665699	H	L	HL	probably damaging
rs9963788	NP_079057	A	P	AP	benign
rs9964535	XP_371114	R	W	RW	possibly damaging
rs9965081	NP_945346	E	V	EV	possibly damaging
rs9966265	NP_004154	A	T	AT	benign
rs9966357	NP_036439	A	T	AT	benign
rs9967382	NP_005015	P	S	PS	benign
rs9967601	NP_005572	R	H	RH	possibly damaging
rs9969708	NP_219480	V	F	VF	benign
rs9970097	NP_899228	S	A	SA	benign
rs9970408	NP_065168	E	K	EK	benign
rs9972231	NP_002217	D	N	DN	benign
rs9972231	NP_660142	D	N	DN	benign
rs9972332	NP_004564	P	L	PL	benign
rs9972733	NP_848547	E	D	ED	benign
rs9972951	NP_055775	R	H	RH	benign
rs9973235	NP_005808	A	V	AV	benign
rs9973304	NP_849152	R	H	RH	possibly damaging
rs9974333	NP_031367	V	A	VA	benign
rs9974927	NP_003298	D	E	DE	benign
rs9975169	NP_003480	N	S	NS	benign
rs9975588	NP_003897	S	L	SL	benign
rs9976017	NP_004562	R	H	RH	possibly damaging
rs9976382	NP_067042	S	R	SR	possibly damaging
rs9976610	NP_004919	R	H	RH	benign
rs9977204	NP_780294	D	N	DN	benign
rs9978351	NP_003298	R	Q	RQ	benign



rs9980129	NP_941963	R	C	RC	possibly damaging
rs9980589	NP_003886	V	A	VA	benign
rs9981024	NP_950251	T	A	TA	benign
rs9981359	NP_387505	R	T	RT	possibly damaging
rs9981448	NP_006022	T	A	TA	benign
rs9984077	NP_780294	V	I	VI	benign
rs9986531	XP_371835	E	K	EK	benign
rs9986532	XP_371835	D	N	DN	benign
rs9986555	NP_000726	L	I	LI	benign
rs9986564	NP_006572	W	G	WG	probably damaging
rs9986596	NP_061983	S	F	SF	possibly damaging
rs9988205	XP_372191	R	H	RH	benign
rs9988418	NP_689418	R	K	RK	benign
rs9988420	NP_653185	T	A	TA	benign
rs9988723	NP_065850	A	T	AT	benign
rs9988907	NP_055434	M	T	MT	benign
rs9989177	NP_060609	D	G	DG	possibly damaging
rs9989327	XP_375150	T	A	TA	benign
rs9989776	NP_055455	T	I	TI	benign
rs9990817	XP_374902	T	I	TI	benign
rs9991339	XP_496727	R	W	RW	possibly damaging
rs9991501	NP_057329	R	Q	RQ	benign
rs9991535	NP_003643	T	M	TM	probably damaging
rs9991664	NP_001954	H	Y	HY	benign
rs9993896	XP_373033	S	C	SC	possibly damaging
rs9994289	XP_497976	C	R	CR	probably damaging
rs9999097	NP_689988	L	M	LM	benign
rs10000692	NP_079149	K	E	KE	benign
rs10001580	NP_060760	E	D	ED	benign
rs10002700	NP_689613	E	G	EG	possibly damaging
rs10003238	NP_065186	N	S	NS	benign
rs10003369	NP_783864	S	Y	SY	benign
rs10003632	XP_209604	T	N	TN	benign
rs10004516	NP_001968	R	Q	RQ	possibly damaging
rs10005739	NP_006008	T	P	TP	benign
rs10007569	NP_689505	R	Q	RQ	benign
rs10007789	XP_373038	E	K	EK	benign
rs10008444	NP_783318	Q	H	QH	benign
rs10009228	NP_060051	S	N	SN	benign
rs10010188	NP_060697	T	A	TA	benign
rs10010374	XP_052597	E	D	ED	benign
rs10010434	NP_003695	R	Q	RQ	benign
rs10011440	NP_000244	S	T	ST	benign
rs10011549	NP_861524	G	S	GS	benign
rs10013280	NP_114162	T	A	TA	benign
rs10014170	NP_060647	M	V	MV	benign

rs10015804	NP_689895	L	I	LI	benign
rs10016614	XP_373033	P	L	PL	possibly damaging
rs10016672	XP_373033	V	I	VI	benign
rs10016702	XP_114418	S	P	SP	benign
rs10017270	XP_371706	T	A	TA	benign
rs10018786	NP_861524	M	L	ML	benign
rs10019009	NP_004398	S	C	SC	possibly damaging
rs10019693	XP_497963	Y	C	YC	probably damaging
rs10020863	XP_497978	A	S	AS	benign
rs10021152	XP_497978	D	H	DH	possibly damaging
rs10022054	XP_497963	Q	R	QR	benign
rs10022360	NP_997718	Y	C	YC	probably damaging
rs10022428	XP_067994	M	T	MT	benign
rs10024518	NP_060051	R	Q	RQ	benign
rs10026797	XP_374902	V	L	VL	benign
rs10027479	NP_689831	N	H	NH	benign
rs10027955	NP_005029	Y	F	YF	possibly damaging
rs10028087	NP_938167	A	V	AV	benign
rs10028124	NP_653244	C	S	CS	benign
rs10029536	XP_037817	N	K	NK	benign
rs10030708	NP_997290	A	T	AT	benign
rs10033029	NP_542415	F	L	FL	benign
rs10033029	NP_006255	F	L	FL	benign
rs10033029	NP_542416	F	L	FL	possibly damaging
rs10033029	NP_542414	F	L	FL	possibly damaging
rs10034345	NP_001501	V	I	VI	benign
rs10034957	NP_036356	I	M	IM	benign
rs10036567	NP_055588	F	L	FL	benign
rs10037225	NP_443131	G	A	GA	benign
rs10037485	NP_001001343	V	I	VI	benign
rs10037618	NP_942568	V	I	VI	benign
rs10037618	NP_055858	V	I	VI	benign
rs10037809	NP_001704	N	H	NH	possibly damaging
rs10039229	NP_057424	V	E	VE	possibly damaging
rs10039374	NP_065122	D	E	DE	benign
rs10039644	NP_005537	V	G	VG	probably damaging
rs10040427	NP_003051	L	F	LF	benign
rs10040926	NP_057664	P	R	PR	probably damaging
rs10041504	NP_057305	V	G	VG	possibly damaging
rs10042271	NP_689761	R	G	RG	possibly damaging
rs10042608	NP_861441	A	V	AV	benign
rs10043775	NP_110420	S	P	SP	benign
rs10043775	NP_995308	S	P	SP	benign
rs10043986	NP_705838	P	L	PL	probably damaging
rs10044879	NP_001438	G	S	GS	benign
rs10045130	NP_002178	G	R	GR	benign

rs10045243	NP_775760	L	I	LI	benign
rs10047195	NP_149033	A	G	AG	benign
rs10047381	NP_068815	Q	P	QP	probably damaging
rs10048853	NP_940998	R	H	RH	possibly damaging
rs10048853	NP_061325	R	H	RH	possibly damaging
rs10048964	XP_057296	S	C	SC	probably damaging
rs10050860	NP_057526	N	D	ND	benign
rs10051434	NP_061755	H	Q	HQ	benign
rs10051838	XP_371778	R	Q	RQ	benign
rs10054043	NP_597713	T	A	TA	benign
rs10054110	NP_775760	N	K	NK	benign
rs10055742	NP_872438	T	M	TM	benign
rs10055840	NP_775759	T	R	TR	benign
rs10056252	XP_209695	Y	C	YC	probably damaging
rs10056676	NP_055588	R	C	RC	benign
rs10057110	NP_000431	N	S	NS	benign
rs10057190	NP_000349	R	G	RG	possibly damaging
rs10059653	NP_291027	V	A	VA	benign
rs10059653	NP_963921	V	A	VA	benign
rs10062501	NP_598377	E	G	EG	benign
rs10064631	NP_076915	L	V	LV	benign
rs10064631	NP_002445	L	V	LV	benign
rs10065269	XP_371731	F	L	FL	benign
rs10065646	XP_029101	Q	P	QP	benign
rs10066063	NP_835260	R	Q	RQ	benign
rs10066808	NP_066550	H	Q	HQ	probably damaging
rs10066882	NP_078853	D	Y	DY	probably damaging
rs10067096	NP_150377	S	A	SA	benign
rs10067182	NP_114040	R	K	RK	benign
rs10067182	NP_061733	R	K	RK	benign
rs10067611	NP_775760	M	V	MV	benign
rs10068403	XP_373440	G	E	GE	benign
rs10068740	XP_371770	S	R	SR	benign
rs10069087	XP_498030	N	S	NS	benign
rs10069396	NP_114400	Y	C	YC	probably damaging
rs10069396	NP_061739	Y	C	YC	probably damaging
rs10071369	NP_114067	S	Y	SY	benign
rs10071369	NP_061725	S	Y	SY	benign
rs10071816	NP_073739	N	S	NS	benign
rs10071845	NP_079270	R	C	RC	possibly damaging
rs10072243	NP_003053	P	A	PA	probably damaging
rs10073222	XP_376403	W	R	WR	benign
rs10073333	NP_775759	P	A	PA	possibly damaging
rs10075121	XP_379323	I	T	IT	benign
rs10075302	NP_114153	G	C	GC	benign
rs10076554	NP_061762	L	F	LF	possibly damaging

rs10076911	NP_075561	F	C	FC	benign
rs10077543	NP_078853	T	A	TA	benign
rs10078391	NP_001360	Q	R	QR	benign
rs10078623	XP_374142	V	A	VA	benign
rs10078759	NP_776161	L	F	LF	benign
rs10078777	NP_775941	R	G	RG	possibly damaging
rs10079250	NP_005202	H	R	HR	benign
rs10080478	XP_496798	G	R	GR	possibly damaging
rs10080628	NP_057314	P	S	PS	benign
rs10081139	NP_002517	M	T	MT	possibly damaging
rs10081141	NP_112225	C	R	CR	probably damaging
rs10081594	NP_055932	L	V	LV	benign
rs10082357	NP_940898	G	R	GR	probably damaging
rs10082391	NP_002408	D	G	DG	possibly damaging
rs10082533	NP_002408	S	N	SN	benign
rs10082778	NP_055318	Q	L	QL	benign
rs10083536	NP_009041	T	M	TM	benign
rs10083789	NP_065769	R	L	RL	probably damaging
rs10084168	XP_371488	S	C	SC	benign
rs10086990	NP_003961	T	P	TP	possibly damaging
rs10087163	NP_000309	R	C	RC	probably damaging
rs10088145	NP_006858	T	A	TA	benign
rs10089600	NP_062825	P	A	PA	possibly damaging
rs10090550	NP_904357	R	H	RH	benign
rs10090550	NP_904356	R	H	RH	benign
rs10091081	NP_002681	G	A	GA	benign
rs10091783	XP_498284	T	P	TP	benign
rs10093068	NP_076418	E	Q	EQ	benign
rs10093583	NP_065208	M	V	MV	benign
rs10093583	NP_065209	M	V	MV	benign
rs10093583	NP_000028	M	V	MV	benign
rs10093583	NP_065210	M	V	MV	benign
rs10093794	NP_055052	V	F	VF	benign
rs10093885	NP_803875	T	A	TA	benign
rs10094744	NP_689778	G	R	GR	benign
rs10094973	NP_996792	A	T	AT	benign
rs10096734	NP_443195	E	D	ED	benign
rs10098508	NP_874365	E	V	EV	benign
rs10098508	NP_056171	E	V	EV	benign
rs10100659	NP_079107	I	T	IT	benign
rs10101357	XP_496991	H	P	HP	probably damaging
rs10103355	NP_004306	A	V	AV	benign
rs10103355	NP_808592	A	V	AV	benign
rs10105064	NP_003961	A	V	AV	benign
rs10106469	XP_047083	V	L	VL	benign
rs10107016	NP_006274	E	G	EG	possibly damaging

rs10107332	XP_291266	G	C	GC	probably damaging
rs10109493	NP_079107	T	A	TA	benign
rs10111612	NP_006274	S	F	SF	possibly damaging
rs10113875	NP_002162	G	R	GR	benign
rs10113876	NP_002162	S	T	ST	benign
rs10114387	XP_497020	A	T	AT	benign
rs10115703	NP_005445	R	W	RW	benign
rs10116806	NP_002820	D	N	DN	benign
rs10118943	NP_036548	A	T	AT	benign
rs10119273	NP_004869	A	V	AV	benign
rs10119590	XP_208403	P	L	PL	possibly damaging
rs10119768	NP_001726	W	G	WG	probably damaging
rs10119874	XP_376895	G	E	GE	possibly damaging
rs10119919	XP_497051	I	F	IF	possibly damaging
rs10120210	NP_001384	Q	P	QP	benign
rs10121198	XP_497012	V	M	VM	probably damaging
rs10121870	XP_376888	R	L	RL	possibly damaging
rs10122075	XP_294540	Q	K	QK	benign
rs10123355	NP_000026	R	S	RS	probably damaging
rs10125097	XP_498307	H	Q	HQ	possibly damaging
rs10126146	XP_291339	W	R	WR	probably damaging
rs10126452	XP_293387	H	Q	HQ	benign
rs10127175	NP_001560	C	S	CS	probably damaging
rs10127857	NP_000560	E	D	ED	benign
rs10127939	NP_000560	L	R	LR	possibly damaging
rs10128723	NP_150594	L	R	LR	benign
rs10128723	NP_006449	L	R	LR	benign
rs10129889	NP_001367	H	Q	HQ	benign
rs10130647	NP_689805	I	V	IV	benign
rs10130991	XP_495998	A	S	AS	benign
rs10131298	XP_040910	L	H	LH	probably damaging
rs10131326	XP_372505	N	D	ND	benign
rs10132325	XP_372532	T	M	TM	benign
rs10132601	NP_004554	D	N	DN	possibly damaging
rs10134365	NP_473365	D	H	DH	possibly damaging
rs10134472	XP_372505	C	R	CR	benign
rs10134537	NP_612461	T	I	TI	possibly damaging
rs10134590	NP_031387	R	Q	RQ	benign
rs10135525	NP_055175	A	T	AT	benign
rs10137161	NP_002367	F	S	FS	benign
rs10137359	NP_060699	G	R	GR	benign
rs10137921	NP_005947	T	M	TM	probably damaging
rs10138395	NP_060413	G	V	GV	probably damaging
rs10138997	XP_048128	S	F	SF	benign
rs10139010	XP_370738	K	E	KE	benign
rs10139756	XP_063310	S	F	SF	probably damaging

rs10139784	NP_060888	R	Q	RQ	benign
rs10140245	NP_060699	E	D	ED	benign
rs10140652	XP_063315	S	Y	SY	benign
rs10140908	XP_372505	S	T	ST	benign
rs10141025	XP_372505	R	H	RH	benign
rs10141053	XP_290629	M	V	MV	benign
rs10141251	XP_290609	K	N	KN	benign
rs10142502	NP_079228	R	C	RC	benign
rs10142728	NP_689990	M	I	MI	benign
rs10142739	XP_375081	A	T	AT	benign
rs10142844	XP_029353	G	R	GR	probably damaging
rs10145307	XP_375075	N	I	NI	possibly damaging
rs10145388	XP_375075	D	G	DG	possibly damaging
rs10146482	NP_149107	H	R	HR	benign
rs10147876	XP_027236	G	E	GE	possibly damaging
rs10148371	NP_002297	R	K	RK	benign
rs10148770	XP_497405	E	K	EK	benign
rs10148785	XP_290629	P	L	PL	probably damaging
rs10149146	XP_375105	I	V	IV	benign
rs10149626	XP_033371	V	L	VL	benign
rs10149705	NP_079010	P	L	PL	probably damaging
rs10150925	NP_071420	V	M	VM	benign
rs10151259	NP_065099	A	S	AS	benign
rs10151658	NP_878918	L	M	LM	benign
rs10152474	NP_001141	V	M	VM	benign
rs10152546	NP_443081	K	I	KI	probably damaging
rs10152640	NP_689810	R	C	RC	possibly damaging
rs10152994	XP_372589	P	T	PT	possibly damaging
rs10153004	XP_372589	T	I	TI	benign
rs10153474	NP_892018	A	T	AT	benign
rs10153584	NP_065830	P	R	PR	probably damaging
rs10154518	XP_496486	A	V	AV	benign
rs10154736	XP_496486	R	K	RK	benign
rs10156070	NP_000587	Q	P	QP	benign
rs10156191	NP_001082	T	M	TM	benign
rs10156474	XP_373308	K	E	KE	possibly damaging
rs10157422	NP_055954	A	T	AT	benign
rs10158072	XP_497720	L	S	LS	benign
rs10158114	XP_497739	D	N	DN	benign
rs10158256	NP_009098	K	R	KR	benign
rs10158395	NP_005798	N	S	NS	benign
rs10158841	XP_040527	D	E	DE	benign
rs10159690	NP_004025	R	H	RH	possibly damaging
rs10159690	NP_001147	R	H	RH	possibly damaging
rs10160013	NP_068506	A	V	AV	benign
rs10160013	NP_003165	V	A	VA	benign

rs10160116	NP_877432	P	S	PS	probably damaging
rs10160385	NP_653266	R	C	RC	probably damaging
rs10160951	NP_002553	P	R	PR	probably damaging
rs10161760	NP_112567	A	P	AP	benign
rs10162203	XP_495947	N	K	NK	benign
rs10162564	NP_005921	K	E	KE	benign
rs10162564	NP_976230	K	E	KE	benign
rs10162564	NP_976231	K	E	KE	benign
rs10162564	NP_976229	K	E	KE	benign
rs10162564	NP_976232	K	E	KE	benign
rs10164332	NP_653285	S	F	SF	probably damaging
rs10164815	NP_872327	T	I	TI	benign
rs10165091	NP_004930	F	L	FL	possibly damaging
rs10166775	XP_497876	Q	E	QE	benign
rs10166913	XP_371488	T	M	TM	benign
rs10167000	NP_055963	V	M	VM	benign
rs10167688	NP_078808	P	T	PT	possibly damaging
rs10168181	NP_620482	A	T	AT	benign
rs10168562	XP_496608	P	Q	PQ	possibly damaging
rs10169162	NP_620355	D	E	DE	benign
rs10171309	XP_371476	A	T	AT	benign
rs10172023	NP_004534	C	W	CW	probably damaging
rs10172220	NP_919288	Q	R	QR	benign
rs10175843	NP_742066	M	V	MV	benign
rs10175940	NP_005782	D	N	DN	benign
rs10175961	NP_004035	I	M	IM	benign
rs10177248	XP_376060	M	T	MT	benign
rs10177508	NP_542409	R	G	RG	possibly damaging
rs10177628	NP_872431	I	V	IV	benign
rs10177991	NP_056350	R	K	RK	benign
rs10178090	NP_056350	R	K	RK	benign
rs10178293	XP_017374	E	Q	EQ	benign
rs10178458	NP_112734	P	L	PL	benign
rs10179772	NP_006764	K	R	KR	benign
rs10183169	XP_496597	G	R	GR	possibly damaging
rs10183641	NP_064707	L	W	LW	possibly damaging
rs10183668	NP_004171	G	R	GR	possibly damaging
rs10184131	NP_061720	M	T	MT	probably damaging
rs10184211	NP_620711	C	G	CG	probably damaging
rs10184596	XP_372911	M	L	ML	benign
rs10185178	NP_620482	K	R	KR	benign
rs10185378	NP_689739	T	I	TI	possibly damaging
rs10186505	XP_496622	N	H	NH	benign
rs10187689	NP_115787	A	T	AT	benign
rs10187694	NP_061948	E	K	EK	possibly damaging
rs10189135	NP_000538	V	M	VM	benign

rs10189135	NP_783650	V	M	VM	benign
rs10189135	NP_783651	V	M	VM	benign
rs10189135	NP_783652	V	M	VM	benign
rs10189135	NP_783653	V	M	VM	benign
rs10191506	XP_065750	E	K	EK	benign
rs10192036	NP_057316	Q	K	QK	benign
rs10192157	NP_057316	T	I	TI	benign
rs10195632	NP_872327	Y	F	YF	benign
rs10195758	NP_872327	E	D	ED	benign
rs10197095	NP_037473	S	F	SF	probably damaging
rs10197514	XP_092342	S	T	ST	benign
rs10198538	NP_055962	R	H	RH	benign
rs10198826	XP_497839	R	H	RH	benign
rs10198893	NP_061720	K	E	KE	benign
rs10199088	NP_005782	E	A	EA	possibly damaging
rs10200182	NP_000173	Q	K	QK	benign
rs10201128	XP_371487	G	R	GR	probably damaging
rs10201400	NP_001144	S	R	SR	possibly damaging
rs10201436	XP_371480	E	K	EK	benign
rs10201766	NP_001548	R	C	RC	probably damaging
rs10202624	NP_061936	V	I	VI	benign
rs10203042	NP_689600	A	V	AV	benign
rs10203154	NP_689600	G	C	GC	benign
rs10204137	NP_057316	Q	R	QR	benign
rs10204742	NP_079002	K	R	KR	benign
rs10205381	XP_497868	D	N	DN	benign
rs10205485	NP_002988	Q	L	QL	benign
rs10205833	XP_497833	L	F	LF	benign
rs10206276	NP_065970	S	F	SF	benign
rs10206753	NP_057316	L	S	LS	benign
rs10206957	NP_116129	G	R	GR	benign
rs10209072	NP_000201	V	M	VM	benign
rs10209102	NP_620482	I	V	IV	benign
rs10209273	NP_000808	R	Q	RQ	benign
rs10210191	NP_071348	E	G	EG	benign
rs10212009	XP_496486	S	P	SP	benign
rs10212031	XP_496486	R	Q	RQ	benign
rs10212057	XP_496486	P	L	PL	benign
rs10212067	XP_496486	K	E	KE	benign
rs10213286	NP_002439	P	S	PS	probably damaging
rs10216409	XP_498284	S	T	ST	benign
rs10217154	XP_376895	N	K	NK	benign
rs10217494	XP_376895	M	I	MI	benign
rs10217999	NP_443189	R	H	RH	benign
rs10219555	XP_051091	A	T	AT	benign
rs10221432	NP_660330	G	S	GS	benign



rs10221459	NP_060322	E	G	EG	possibly damaging
rs10221530	XP_372712	A	T	AT	benign
rs10221698	XP_092342	V	A	VA	benign
rs10221907	NP_078900	I	M	IM	benign
rs10222114	NP_006022	G	S	GS	benign
rs10223538	NP_995586	T	I	TI	benign
rs10223538	NP_786887	T	I	TI	benign
rs10223858	XP_371843	L	P	LP	possibly damaging
rs10224753	XP_376720	L	V	LV	benign
rs10224831	NP_078774	I	V	IV	benign
rs10227141	NP_542782	R	Q	RQ	benign
rs10227922	NP_000814	T	S	TS	benign
rs10228086	NP_689957	P	S	PS	possibly damaging
rs10228450	XP_376587	S	G	SG	possibly damaging
rs10228640	XP_171158	N	S	NS	benign
rs10229132	NP_037453	T	I	TI	possibly damaging
rs10230120	NP_056013	D	A	DA	benign
rs10230228	XP_498253	Q	K	QK	benign
rs10230714	XP_371933	M	V	MV	benign
rs10231065	XP_291200	D	A	DA	benign
rs10231144	NP_071889	T	M	TM	benign
rs10233232	XP_059832	M	T	MT	benign
rs10233245	XP_376720	H	R	HR	benign
rs10233493	XP_166571	L	I	LI	benign
rs10234446	XP_088142	T	M	TM	benign
rs10235352	XP_168530	E	D	ED	benign
rs10235371	NP_071399	V	M	VM	benign
rs10236656	XP_059832	D	E	DE	benign
rs10237102	XP_208373	C	R	CR	benign
rs10237382	NP_076938	G	A	GA	benign
rs10239435	NP_060124	N	S	NS	benign
rs10239632	NP_660090	P	A	PA	possibly damaging
rs10239950	XP_374653	C	S	CS	benign
rs10240863	NP_000713	R	K	RK	benign
rs10240864	NP_000713	R	K	RK	benign
rs10240876	NP_000713	R	K	RK	benign
rs10241147	XP_291200	A	T	AT	benign
rs10241894	NP_055812	L	I	LI	benign
rs10243185	XP_166571	D	E	DE	benign
rs10245352	XP_374396	H	P	HP	probably damaging
rs10245678	XP_039393	V	M	VM	benign
rs10245716	XP_498220	T	I	TI	benign
rs10246361	XP_376610	G	S	GS	benign
rs10246939	NP_789787	I	V	IV	benign
rs10247878	NP_113602	S	I	SI	benign
rs10247878	NP_116562	S	I	SI	benign

rs10249320	NP_597725	R	W	RW	possibly damaging
rs10250385	XP_498171	T	I	TI	benign
rs10250417	XP_376720	E	D	ED	benign
rs10250778	NP_059488	T	N	TN	benign
rs10250905	NP_057700	R	C	RC	benign
rs10251512	XP_291247	Q	E	QE	benign
rs10251768	NP_857597	H	Q	HQ	possibly damaging
rs10252253	XP_498253	L	P	LP	benign
rs10252951	XP_376680	N	K	NK	benign
rs10253847	NP_000713	S	R	SR	benign
rs10253916	NP_004498	D	N	DN	possibly damaging
rs10254120	NP_000526	R	Q	RQ	benign
rs10254390	XP_376680	D	Y	DY	probably damaging
rs10254518	XP_498257	T	P	TP	benign
rs10254784	XP_496870	G	S	GS	benign
rs10255054	NP_003566	G	R	GR	possibly damaging
rs10255061	NP_849149	V	M	VM	benign
rs10255558	XP_374637	P	L	PL	benign
rs10255568	XP_374637	H	Q	HQ	benign
rs10255741	NP_061331	L	V	LV	benign
rs10255762	NP_055066	L	I	LI	benign
rs10256887	NP_006860	S	G	SG	possibly damaging
rs10258719	NP_570856	A	V	AV	benign
rs10258821	XP_168578	H	Y	HY	benign
rs10258918	NP_056360	R	Q	RQ	benign
rs10259802	NP_000159	N	K	NK	possibly damaging
rs10260215	NP_036579	A	T	AT	benign
rs10260248	NP_795363	S	Y	SY	benign
rs10260264	XP_498257	E	K	EK	benign
rs10260959	XP_376720	L	V	LV	benign
rs10261848	XP_168530	T	P	TP	benign
rs10262855	NP_060708	V	M	VM	benign
rs10263079	NP_113602	N	K	NK	benign
rs10263079	NP_116562	N	K	NK	benign
rs10263734	XP_498220	V	A	VA	benign
rs10263797	XP_498257	S	P	SP	benign
rs10264952	NP_113602	E	K	EK	benign
rs10264952	NP_116562	E	K	EK	benign
rs10264967	NP_113602	K	N	KN	benign
rs10264967	NP_116562	K	N	KN	benign
rs10265083	NP_689839	A	V	AV	benign
rs10265966	NP_067053	A	D	AD	benign
rs10265966	NP_733751	A	D	AD	possibly damaging
rs10266424	NP_008911	A	T	AT	benign
rs10266536	XP_373223	A	T	AT	benign
rs10266732	NP_004659	S	L	SL	possibly damaging

rs10266866	NP_057304	C	G	CG	probably damaging
rs10269237	NP_068579	L	V	LV	benign
rs10269893	NP_001449	E	D	ED	benign
rs10270766	NP_997056	I	T	IT	possibly damaging
rs10270766	NP_997055	I	T	IT	possibly damaging
rs10271034	XP_374637	Q	R	QR	benign
rs10271050	XP_374637	I	V	IV	benign
rs10271058	XP_374637	H	L	HL	possibly damaging
rs10271996	NP_787083	P	S	PS	possibly damaging
rs10272498	XP_496879	V	A	VA	benign
rs10272647	XP_376567	P	H	PH	benign
rs10272756	NP_115791	A	P	AP	benign
rs10274022	NP_219499	Q	K	QK	benign
rs10274197	XP_498220	D	Y	DY	probably damaging
rs10275777	XP_376618	C	R	CR	benign
rs10276748	XP_166571	P	S	PS	possibly damaging
rs10276874	XP_166571	L	P	LP	possibly damaging
rs10276886	XP_166571	S	L	SL	benign
rs10276909	XP_166571	A	V	AV	benign
rs10278721	NP_795364	L	P	LP	probably damaging
rs10279499	NP_060124	V	L	VL	benign
rs10280467	NP_112223	D	Y	DY	probably damaging
rs10280704	NP_000102	R	Q	RQ	benign
rs10281525	NP_937794	K	T	KT	benign
rs10281879	NP_066990	S	G	SG	benign
rs10282312	NP_000074	W	G	WG	possibly damaging
rs10282508	XP_374489	N	T	NT	benign
rs10282929	NP_116251	I	M	IM	benign
rs10282930	NP_116251	D	Y	DY	possibly damaging
rs10283100	NP_006200	P	S	PS	probably damaging
rs10305493	NP_002053	S	C	SC	benign
rs10305510	NP_002053	R	Q	RQ	benign
rs10305741	NP_848514	D	E	DE	benign
rs10305741	NP_001659	D	E	DE	benign
rs10306140	NP_000953	R	L	RL	probably damaging
rs10306140	NP_542158	R	L	RL	probably damaging
rs10317141	NP_219480	F	C	FC	benign
rs10396209	NP_005496	V	I	VI	benign
rs10396213	NP_005496	S	G	SG	benign
rs10400212	NP_861462	D	N	DN	benign
rs10400391	NP_000343	L	V	LV	benign
rs10401088	XP_497598	M	V	MV	benign
rs10401716	NP_775815	L	F	LF	benign
rs10401800	NP_055290	A	P	AP	possibly damaging
rs10402252	NP_005806	T	K	TK	benign
rs10402349	XP_497611	S	G	SG	possibly damaging

rs10402397	NP_057541	A	T	AT	benign
rs10402855	NP_115661	G	A	GA	benign
rs10403008	NP_689813	E	D	ED	benign
rs10403407	NP_059979	L	F	LF	benign
rs10403702	XP_086001	L	P	LP	probably damaging
rs10403922	XP_371140	A	V	AV	benign
rs10404036	NP_067008	D	H	DH	benign
rs10404119	NP_112163	A	S	AS	benign
rs10404156	NP_659483	D	N	DN	benign
rs10404195	XP_375560	R	H	RH	benign
rs10404519	NP_115823	E	K	EK	benign
rs10404860	NP_055699	M	T	MT	benign
rs10405129	NP_112163	I	T	IT	possibly damaging
rs10405148	NP_112163	V	A	VA	benign
rs10405238	XP_058997	Y	D	YD	probably damaging
rs10405305	NP_150651	A	G	AG	benign
rs10405305	NP_061985	A	G	AG	benign
rs10405368	NP_694965	L	V	LV	benign
rs10405713	NP_005865	T	A	TA	benign
rs10406069	NP_001762	G	D	GD	possibly damaging
rs10406087	NP_699190	V	A	VA	benign
rs10406301	NP_036446	S	C	SC	benign
rs10406301	NP_839942	S	C	SC	benign
rs10406453	NP_945339	H	R	HR	benign
rs10406580	NP_001965	V	L	VL	benign
rs10406745	NP_000426	R	H	RH	probably damaging
rs10406757	NP_699160	A	T	AT	benign
rs10407022	NP_000470	I	S	IS	possibly damaging
rs10407035	NP_073746	R	H	RH	probably damaging
rs10407115	NP_808211	A	V	AV	benign
rs10407115	NP_803545	A	V	AV	benign
rs10407239	XP_496282	A	V	AV	benign
rs10407503	NP_004354	A	D	AD	benign
rs10407985	NP_065931	H	L	HL	possibly damaging
rs10408046	NP_006857	V	L	VL	benign
rs10408052	XP_059051	E	K	EK	benign
rs10408265	NP_612463	N	S	NS	benign
rs10408494	NP_055243	G	D	GD	possibly damaging
rs10408676	NP_000426	V	M	VM	benign
rs10408787	XP_496291	R	W	RW	possibly damaging
rs10409124	NP_037535	V	I	VI	benign
rs10409482	NP_057524	C	Y	CY	probably damaging
rs10409531	NP_065879	A	V	AV	benign
rs10409852	NP_036598	T	A	TA	benign
rs10409962	NP_055257	S	P	SP	probably damaging
rs10410030	NP_060825	N	D	ND	benign

rs10410075	NP_057524	S	L	SL	possibly damaging
rs10410201	XP_290865	R	C	RC	benign
rs10410649	NP_998763	M	V	MV	benign
rs10410877	NP_003429	R	C	RC	possibly damaging
rs10410943	NP_848620	A	V	AV	benign
rs10411092	NP_659483	D	G	DG	possibly damaging
rs10411314	NP_612635	N	D	ND	benign
rs10411329	XP_290865	K	E	KE	benign
rs10411486	NP_998763	V	D	VD	possibly damaging
rs10411650	NP_006693	D	N	DN	possibly damaging
rs10412348	NP_002776	E	K	EK	benign
rs10412348	NP_976032	E	K	EK	benign
rs10412527	NP_694989	R	T	RT	benign
rs10412720	NP_005588	A	S	AS	benign
rs10412720	NP_995315	A	S	AS	benign
rs10412828	NP_056507	Q	P	QP	benign
rs10412932	NP_006201	D	G	DG	possibly damaging
rs10413187	XP_292832	Q	K	QK	benign
rs10413538	XP_290865	R	K	RK	benign
rs10413646	NP_000914	S	L	SL	probably damaging
rs10413655	NP_005018	A	V	AV	benign
rs10413818	XP_114000	E	K	EK	benign
rs10413864	NP_612356	N	S	NS	benign
rs10414166	NP_002776	N	D	ND	benign
rs10414166	NP_976032	N	D	ND	benign
rs10414255	XP_372709	M	V	MV	benign
rs10414485	XP_091914	C	Y	CY	benign
rs10414535	NP_055699	Q	R	QR	benign
rs10414597	NP_006660	L	V	LV	benign
rs10414812	NP_778148	R	H	RH	benign
rs10414834	NP_787106	V	L	VL	possibly damaging
rs10414971	NP_110451	P	S	PS	benign
rs10415018	NP_065746	V	A	VA	benign
rs10415207	NP_110451	P	T	PT	benign
rs10415287	NP_689576	A	T	AT	benign
rs10415298	XP_497611	I	M	IM	possibly damaging
rs10415312	NP_945182	E	K	EK	benign
rs10415373	NP_003361	A	T	AT	benign
rs10415562	NP_945182	V	I	VI	benign
rs10415690	XP_375646	T	A	TA	benign
rs10416265	NP_060495	H	R	HR	benign
rs10416584	NP_689688	S	N	SN	benign
rs10416686	NP_689688	S	R	SR	possibly damaging
rs10416861	NP_055331	S	A	SA	benign
rs10416895	XP_497611	A	T	AT	benign
rs10416906	XP_497611	R	H	RH	possibly damaging

rs10417158	NP_006854	D	E	DE	possibly damaging
rs10417532	XP_375606	F	S	FS	possibly damaging
rs10417589	NP_006854	S	G	SG	benign
rs10417624	XP_371174	R	I	RI	possibly damaging
rs10417628	NP_000470	A	V	AV	benign
rs10417633	XP_058964	A	T	AT	benign
rs10417977	NP_079337	R	H	RH	benign
rs10418195	NP_056507	D	N	DN	benign
rs10418391	NP_006854	R	H	RH	benign
rs10418474	XP_292832	K	R	KR	benign
rs10418552	NP_006660	S	R	SR	benign
rs10418734	XP_292832	K	E	KE	benign
rs10418913	NP_003250	V	M	VM	benign
rs10418929	NP_112219	A	S	AS	benign
rs10419012	XP_292832	G	E	GE	possibly damaging
rs10419038	XP_209178	R	C	RC	probably damaging
rs10419077	NP_115746	L	P	LP	possibly damaging
rs10419085	NP_006660	S	T	ST	benign
rs10419548	XP_292724	Q	R	QR	benign
rs10419604	NP_037512	T	K	TK	benign
rs10419826	XP_030958	G	R	GR	benign
rs10419832	NP_036408	I	V	IV	benign
rs10420313	NP_112219	L	R	LR	benign
rs10420364	XP_091914	Y	C	YC	probably damaging
rs10420643	NP_001450	T	S	TS	benign
rs10420644	NP_077011	T	A	TA	benign
rs10421235	NP_005026	V	L	VL	benign
rs10421308	XP_064903	R	K	RK	benign
rs10421387	NP_076433	G	W	GW	probably damaging
rs10421552	NP_689475	P	S	PS	benign
rs10421632	XP_372753	V	I	VI	benign
rs10421670	XP_209204	W	R	WR	probably damaging
rs10421769	NP_060495	L	S	LS	benign
rs10422025	XP_375558	A	V	AV	benign
rs10422063	NP_005806	F	C	FC	probably damaging
rs10422163	XP_064903	Y	F	YF	benign
rs10422648	NP_699160	S	T	ST	benign
rs10422863	NP_954672	H	Y	HY	benign
rs10422863	NP_057669	H	Y	HY	benign
rs10422897	NP_005542	W	R	WR	probably damaging
rs10422944	XP_497611	C	R	CR	benign
rs10423025	XP_377506	R	T	RT	benign
rs10423171	NP_004354	R	S	RS	benign
rs10423273	NP_110451	I	V	IV	benign
rs10423345	XP_372719	H	R	HR	probably damaging
rs10423355	XP_058964	V	A	VA	benign

rs10423424	NP_945339	R	P	RP	possibly damaging
rs10424687	NP_001740	L	F	LF	benign
rs10424707	XP_497610	L	R	LR	possibly damaging
rs10425108	NP_037538	E	D	ED	benign
rs10425108	NP_037539	E	D	ED	benign
rs10425108	NP_001921	E	D	ED	benign
rs10425120	XP_047554	S	N	SN	benign
rs10425120	XP_047550	S	N	SN	benign
rs10425169	NP_000755	C	R	CR	benign
rs10425176	NP_000755	F	I	FI	benign
rs10425452	NP_870998	R	C	RC	probably damaging
rs10425606	NP_062829	I	S	IS	probably damaging
rs10425706	NP_872415	G	E	GE	benign
rs10425835	NP_065139	I	L	IL	benign
rs10425917	NP_004136	L	I	LI	benign
rs10425951	XP_292723	S	T	ST	benign
rs10425981	NP_006854	Y	H	YH	benign
rs10425995	NP_003428	Y	C	YC	benign
rs10426017	XP_371139	I	M	IM	benign
rs10426122	NP_001775	S	Y	SY	possibly damaging
rs10426122	NP_510966	S	Y	SY	possibly damaging
rs10426206	XP_208204	C	S	CS	probably damaging
rs10426537	NP_004377	S	N	SN	benign
rs10426545	NP_056507	R	W	RW	benign
rs10427116	XP_496299	I	V	IV	benign
rs10427371	NP_055312	S	N	SN	benign
rs10428037	NP_620169	T	I	TI	benign
rs10428775	XP_496813	R	C	RC	benign
rs10429965	NP_002488	N	S	NS	benign
rs10431277	XP_497335	L	F	LF	benign
rs10432667	NP_751946	N	D	ND	benign
rs10432667	NP_006863	N	D	ND	benign
rs10433337	NP_060864	K	R	KR	benign
rs10435864	XP_376903	H	Q	HQ	possibly damaging
rs10437090	XP_497670	G	R	GR	benign
rs10438246	XP_290629	M	V	MV	benign
rs10439534	XP_376074	G	A	GA	benign
rs10440603	XP_496692	R	Q	RQ	benign
rs10440604	XP_496692	M	T	MT	benign
rs10440606	XP_496692	D	E	DE	benign
rs10440608	XP_496692	H	Q	HQ	benign
rs10441509	NP_803875	V	I	VI	benign
rs10441685	NP_777583	S	C	SC	benign
rs10441706	NP_060264	V	I	VI	benign
rs10441778	NP_001994	G	D	GD	benign
rs10443824	XP_496692	D	Y	DY	benign

rs10444913	XP_370826	H	R	HR	probably damaging
rs10444914	XP_370826	G	V	GV	possibly damaging
rs10445216	NP_001979	Y	C	YC	probably damaging
rs10445337	NP_058519	S	P	SP	possibly damaging
rs10447012	XP_496691	N	K	NK	benign
rs10447013	XP_496691	V	I	VI	benign
rs10447150	XP_380175	R	W	RW	possibly damaging
rs10447293	NP_055644	E	Q	EQ	benign
rs10449773	XP_496332	S	P	SP	benign
rs10450321	XP_495802	F	S	FS	possibly damaging
rs10450603	XP_372357	R	C	RC	probably damaging
rs10450844	NP_002258	E	K	EK	benign
rs10450845	NP_002258	D	N	DN	benign
rs10450846	NP_002258	E	K	EK	benign
rs10451269	NP_998772	A	V	AV	benign
rs10454320	NP_733751	T	S	TS	benign
rs10454373	XP_498328	P	S	PS	possibly damaging
rs10454374	XP_498328	A	P	AP	benign
rs10454784	XP_171032	V	L	VL	benign
rs10454915	NP_006624	N	S	NS	benign
rs10455057	NP_660325	G	R	GR	benign
rs10455097	NP_598000	Y	S	YS	benign
rs10455840	NP_114130	R	Q	RQ	possibly damaging
rs10456399	NP_115859	M	T	MT	possibly damaging
rs10456521	NP_057034	S	F	SF	possibly damaging
rs10457191	XP_168055	A	V	AV	benign
rs10458105	NP_001709	R	C	RC	probably damaging
rs10458342	NP_001447	R	C	RC	probably damaging
rs10458462	NP_002950	S	F	SF	possibly damaging
rs10458463	NP_002950	T	I	TI	possibly damaging
rs10458896	NP_112494	I	V	IV	benign
rs10459504	NP_002683	T	P	TP	benign
rs10459809	NP_001288	L	I	LI	benign
rs10459872	NP_689550	Y	H	YH	benign
rs10460212	XP_371155	T	M	TM	benign
rs10462014	NP_000056	S	F	SF	possibly damaging
rs10462020	NP_058515	V	G	VG	benign
rs10464523	NP_005754	E	K	EK	benign
rs10465129	XP_376903	L	F	LF	benign
rs10465613	NP_000072	S	N	SN	benign
rs10466026	NP_071407	E	K	EK	benign
rs10466126	NP_004083	A	V	AV	benign
rs10466659	XP_497298	V	A	VA	benign
rs10470742	NP_068746	T	I	TI	possibly damaging
rs10471371	NP_002194	K	E	KE	benign
rs10472941	NP_056392	V	L	VL	benign



rs10475299	XP_029101	K	E	KE	benign
rs10475633	NP_057374	G	E	GE	possibly damaging
rs10476822	NP_037472	T	I	TI	possibly damaging
rs10479584	NP_002397	S	F	SF	possibly damaging
rs10479619	NP_071916	S	N	SN	benign
rs10481074	NP_114415	H	Y	HY	probably damaging
rs10482721	NP_003229	R	H	RH	possibly damaging
rs10482810	NP_003229	V	L	VL	benign
rs10484830	NP_940870	P	L	PL	possibly damaging
rs10484847	NP_001362	V	I	VI	benign
rs10485183	NP_037484	T	I	TI	benign
rs10486180	XP_295195	I	V	IV	benign
rs10487075	NP_857597	E	K	EK	benign
rs10487647	XP_168530	L	P	LP	probably damaging
rs10487648	XP_168530	F	L	FL	benign
rs10488532	XP_374489	V	I	VI	benign
rs10488698	NP_116114	R	C	RC	possibly damaging
rs10489177	NP_219486	E	D	ED	benign
rs10489579	NP_060143	V	I	VI	benign
rs10489990	NP_056532	A	V	AV	benign
rs10490252	XP_290345	I	T	IT	possibly damaging
rs10493753	NP_071749	V	L	VL	benign
rs10493821	NP_060754	V	M	VM	benign
rs10494217	XP_371284	H	N	HN	probably damaging
rs10494745	NP_006675	G	E	GE	possibly damaging
rs10494751	NP_919290	D	Y	DY	possibly damaging
rs10494755	NP_061922	G	S	GS	possibly damaging
rs10497199	XP_043500	A	T	AT	benign
rs10497377	NP_954697	G	V	GV	probably damaging
rs10497410	NP_078859	D	N	DN	benign
rs10497520	NP_596870	K	E	KE	benign
rs10497529	XP_496613	A	V	AV	benign
rs10498796	NP_055279	H	R	HR	probably damaging
rs10499052	XP_376527	P	S	PS	possibly damaging
rs10500209	NP_689475	L	S	LS	benign
rs10500210	NP_110451	R	C	RC	possibly damaging
rs10500311	NP_940882	T	M	TM	benign
rs10500557	NP_008892	R	Q	RQ	benign
rs10501429	NP_078954	T	N	TN	possibly damaging
rs10501999	XP_497316	H	R	HR	probably damaging
rs10502001	NP_002414	R	H	RH	benign
rs10503867	XP_047083	N	K	NK	benign
rs10503929	NP_039250	M	T	MT	benign
rs10503929	NP_039251	M	T	MT	benign
rs10503929	NP_039254	M	T	MT	benign
rs10503929	NP_039258	M	T	MT	benign

rs10505769	XP_495912	N	D	ND	benign
rs10505830	NP_149114	S	L	SL	possibly damaging
rs10506821	XP_374987	G	A	GA	possibly damaging
rs10507047	XP_370702	Q	R	QR	benign
rs10507051	NP_060069	I	V	IV	benign
rs10507274	NP_079014	Q	R	QR	possibly damaging
rs10509305	NP_689922	E	D	ED	benign
rs10509332	NP_734465	A	T	AT	benign
rs10509681	NP_000761	K	R	KR	possibly damaging
rs10510108	NP_653188	Q	R	QR	benign
rs10511670	NP_060115	H	Q	HQ	benign
rs10511687	NP_060264	L	S	LS	benign
rs10512243	NP_064592	A	T	AT	benign
rs10512330	XP_071097	K	T	KT	possibly damaging
rs10512472	XP_496207	Q	R	QR	benign
rs10512538	XP_497555	M	T	MT	probably damaging
rs10512599	NP_001536	L	F	LF	benign
rs10512747	NP_115976	S	L	SL	benign
rs10513155	NP_001360	L	F	LF	benign
rs10513680	NP_872416	E	D	ED	benign
rs10513762	NP_065142	R	H	RH	possibly damaging
rs10513762	NP_817125	R	H	RH	possibly damaging
rs10516487	NP_060405	R	H	RH	benign
rs10516782	NP_542415	I	M	IM	benign
rs10516782	NP_542416	I	M	IM	benign
rs10516782	NP_006255	I	M	IM	benign
rs10516782	NP_542414	I	M	IM	benign
rs10517577	NP_775933	M	V	MV	possibly damaging
rs10518816	XP_370866	V	L	VL	benign
rs10519020	NP_004203	S	T	ST	benign
rs10519996	NP_542381	P	R	PR	probably damaging
rs10521028	XP_497071	Y	C	YC	probably damaging
rs10521092	NP_003631	M	K	MK	benign
rs10521938	NP_997202	F	L	FL	possibly damaging
rs10521939	NP_997202	Q	E	QE	benign
rs10732273	XP_046531	L	P	LP	probably damaging
rs10733133	NP_002499	I	V	IV	benign
rs10735005	NP_758952	V	I	VI	benign
rs10735309	NP_055718	A	T	AT	benign
rs10735810	NP_000367	M	T	MT	probably damaging
rs10736904	XP_290540	P	S	PS	benign
rs10739614	XP_071150	R	P	RP	possibly damaging
rs10742772	NP_476515	I	V	IV	benign
rs10742772	NP_004804	I	V	IV	benign
rs10742787	XP_372364	A	T	AT	benign
rs10742809	XP_372366	M	R	MR	benign

rs10742909	XP_372378	P	L	PL	possibly damaging
rs10743108	NP_003433	Q	E	QE	benign
rs10743251	XP_495906	T	A	TA	benign
rs10743252	XP_495906	R	C	RC	probably damaging
rs10743253	XP_495906	K	Q	KQ	benign
rs10743597	NP_000005	V	I	VI	benign
rs10743938	NP_795366	M	L	ML	benign
rs10744982	NP_060028	T	A	TA	benign
rs10747049	NP_037511	G	A	GA	possibly damaging
rs10747493	NP_001717	L	P	LP	benign
rs10747493	NP_997072	L	P	LP	benign
rs10747556	NP_149115	H	R	HR	benign
rs10749138	NP_006166	I	V	IV	benign
rs10749138	NP_932326	I	V	IV	benign
rs10749920	NP_055880	L	P	LP	benign
rs10750250	XP_291838	C	Y	CY	possibly damaging
rs10750270	XP_210186	E	G	EG	benign
rs10750931	NP_683876	K	E	KE	benign
rs10751454	XP_371207	S	G	SG	benign
rs10751676	XP_290540	K	Q	KQ	benign
rs10759326	NP_003631	I	L	IL	benign
rs10760252	XP_373315	Q	K	QK	benign
rs10760500	NP_733745	L	F	LF	benign
rs10760502	NP_004948	I	V	IV	benign
rs10760517	NP_003854	T	S	TS	benign
rs10761054	XP_210752	F	L	FL	benign
rs10761073	XP_210755	S	L	SL	benign
rs10761084	NP_060846	A	P	AP	possibly damaging
rs10761129	NP_004551	V	I	VI	benign
rs10764176	NP_689938	S	G	SG	benign
rs10764749	NP_002408	R	Q	RQ	benign
rs10765565	XP_061871	V	L	VL	benign
rs10766466	NP_954630	V	A	VA	benign
rs10768448	XP_061614	T	I	TI	benign
rs10768450	XP_061614	A	V	AV	benign
rs10768611	NP_036507	P	S	PS	benign
rs10768907	XP_372354	F	L	FL	benign
rs10769086	XP_291806	V	I	VI	benign
rs10769224	XP_372364	C	Y	CY	probably damaging
rs10769272	XP_372366	F	L	FL	benign
rs10769629	XP_497281	R	W	RW	possibly damaging
rs10769633	XP_497281	R	L	RL	possibly damaging
rs10769671	NP_775796	S	P	SP	possibly damaging
rs10769699	NP_653267	R	H	RH	benign
rs10769716	XP_495863	H	N	HN	benign
rs10770740	XP_497329	S	R	SR	possibly damaging

rs10771314	NP_057635	P	L	PL	probably damaging
rs10771427	NP_060788	M	V	MV	benign
rs10772256	NP_002253	A	S	AS	benign
rs10772423	NP_795366	V	I	VI	benign
rs10773019	NP_065987	N	S	NS	benign
rs10774978	NP_115676	K	R	KR	benign
rs10775327	XP_375357	G	V	GV	probably damaging
rs10775648	NP_055401	R	C	RC	possibly damaging
rs10776722	XP_086604	R	G	RG	benign
rs10776792	NP_000540	A	T	AT	benign
rs10777084	NP_689802	Q	R	QR	benign
rs10778679	XP_291989	E	Q	EQ	benign
rs10779261	NP_009054	A	T	AT	benign
rs10781150	XP_071201	T	I	TI	possibly damaging
rs10781365	NP_954586	H	Q	HQ	possibly damaging
rs10783071	NP_001717	Q	K	QK	benign
rs10783071	NP_997072	Q	K	QK	benign
rs10783229	NP_000280	R	Q	RQ	benign
rs10783231	XP_370691	E	D	ED	benign
rs10783299	XP_290598	E	G	EG	benign
rs10783518	NP_258259	V	G	VG	benign
rs10783528	NP_778253	N	D	ND	benign
rs10785923	XP_061427	P	Q	PQ	probably damaging
rs10786775	NP_079204	C	S	CS	probably damaging
rs10786783	NP_660290	D	G	DG	benign
rs10787428	NP_065969	E	G	EG	possibly damaging
rs10788652	XP_378840	I	T	IT	benign
rs10788828	XP_373868	T	M	TM	benign
rs10789501	XP_208213	C	R	CR	probably damaging
rs10790610	XP_291838	F	L	FL	benign
rs10790715	NP_689935	V	M	VM	benign
rs10790978	NP_055176	S	A	SA	benign
rs10791893	XP_166820	V	L	VL	benign
rs10791961	XP_166805	S	C	SC	benign
rs10791962	XP_166805	T	S	TS	benign
rs10792043	XP_372400	V	L	VL	benign
rs10792156	NP_997257	Q	R	QR	benign
rs10793624	XP_495809	R	G	RG	benign
rs10793625	XP_495809	L	V	LV	benign
rs10794323	XP_374860	C	R	CR	possibly damaging
rs10794324	XP_374860	I	V	IV	benign
rs10794531	NP_775845	H	R	HR	benign
rs10794532	NP_775845	D	G	DG	possibly damaging
rs10794537	NP_000194	Q	H	QH	benign
rs10794630	XP_496028	D	G	DG	benign
rs10795446	NP_001072	P	T	PT	benign

rs10796795	NP_954714	A	G	AG	benign
rs10797300	NP_803564	P	L	PL	probably damaging
rs10797300	NP_001045	P	L	PL	probably damaging
rs10798333	XP_040527	T	M	TM	benign
rs10799790	NP_361013	N	D	ND	benign
rs10801922	NP_065173	V	I	VI	benign
rs10801999	NP_001223	V	M	VM	benign
rs10803354	NP_963922	T	A	TA	benign
rs10804117	NP_689738	Q	H	QH	benign
rs10804166	XP_371592	S	G	SG	benign
rs10804567	XP_087386	V	L	VL	benign
rs10805890	NP_000512	I	V	IV	benign
rs10807372	NP_722581	K	E	KE	benign
rs10813831	NP_055129	R	C	RC	possibly damaging
rs10814542	XP_497020	K	N	KN	benign
rs10814571	NP_071935	R	K	RK	benign
rs10817479	NP_660284	P	S	PS	possibly damaging
rs10817493	NP_652760	W	C	WC	probably damaging
rs10817610	NP_056219	H	R	HR	possibly damaging
rs10817858	NP_640339	A	D	AD	benign
rs10818503	NP_008949	I	V	IV	benign
rs10818504	NP_008949	P	L	PL	benign
rs10818708	NP_036495	P	S	PS	benign
rs10818740	XP_373315	R	Q	RQ	benign
rs10818741	XP_373315	M	I	MI	benign
rs10820709	XP_210755	Q	H	QH	benign
rs10820900	NP_004551	T	A	TA	benign
rs10821026	XP_498335	R	W	RW	probably damaging
rs10821668	NP_066267	K	R	KR	benign
rs10823148	NP_115967	F	L	FL	possibly damaging
rs10823229	NP_085128	D	G	DG	benign
rs10823320	NP_079406	D	G	DG	probably damaging
rs10823607	NP_542453	L	P	LP	benign
rs10823607	NP_631894	P	L	PL	benign
rs10825269	NP_149045	G	S	GS	benign
rs10826469	XP_377109	P	S	PS	possibly damaging
rs10828317	NP_005019	N	S	NS	benign
rs10828395	NP_775104	Q	R	QR	benign
rs10828663	XP_495798	A	T	AT	benign
rs10828676	NP_065875	T	S	TS	benign
rs10829163	XP_374779	V	I	VI	benign
rs10830339	NP_710163	N	K	NK	possibly damaging
rs10830430	NP_005458	I	V	IV	benign
rs10830897	XP_497314	P	L	PL	possibly damaging
rs10830902	XP_061864	S	F	SF	benign
rs10831088	XP_374922	R	Q	RQ	benign

rs10831519	NP_079001	Q	R	QR	benign
rs10832747	XP_039218	R	L	RL	possibly damaging
rs10832914	NP_954630	A	V	AV	benign
rs10833049	NP_473371	N	S	NS	possibly damaging
rs10837771	NP_149419	M	T	MT	benign
rs10837814	NP_149420	F	L	FL	benign
rs10838092	XP_372355	T	I	TI	possibly damaging
rs10838093	XP_372355	C	R	CR	possibly damaging
rs10838094	XP_372355	V	I	VI	benign
rs10838095	XP_372355	R	H	RH	probably damaging
rs10838525	NP_149023	Q	R	QR	benign
rs10838525	NP_149083	Q	R	QR	benign
rs10838525	NP_149084	Q	R	QR	benign
rs10838719	XP_372366	W	R	WR	benign
rs10838852	XP_372376	P	S	PS	possibly damaging
rs10839435	XP_497281	R	H	RH	benign
rs10839531	XP_062263	H	R	HR	possibly damaging
rs10839551	NP_659477	A	T	AT	benign
rs10839564	NP_000604	D	N	DN	benign
rs10839601	XP_495863	S	F	SF	possibly damaging
rs10839602	XP_495863	V	M	VM	possibly damaging
rs10839604	XP_495863	I	M	IM	benign
rs10839616	XP_291980	R	P	RP	probably damaging
rs10839631	XP_291981	H	R	HR	benign
rs10839632	XP_291981	I	T	IT	benign
rs10839635	NP_997069	R	Q	RQ	benign
rs10839658	XP_062285	L	I	LI	benign
rs10839659	XP_062285	W	S	WS	probably damaging
rs10839708	NP_789792	E	K	EK	benign
rs10839849	NP_937828	P	S	PS	possibly damaging
rs10841404	XP_498535	F	L	FL	benign
rs10841795	NP_602307	I	T	IT	benign
rs10842971	NP_002855	I	N	IN	probably damaging
rs10845279	NP_795370	R	L	RL	benign
rs10845280	NP_795370	F	S	FS	benign
rs10845281	NP_795370	I	V	IV	benign
rs10845293	NP_795366	A	V	AV	benign
rs10845294	NP_795366	Q	E	QE	possibly damaging
rs10845295	NP_795366	R	W	RW	probably damaging
rs10845659	XP_370681	Q	R	QR	benign
rs10845981	NP_703150	G	E	GE	benign
rs10849482	NP_055680	V	M	VM	benign
rs10850256	NP_057280	K	R	KR	benign
rs10851704	NP_060154	S	N	SN	benign
rs10851894	NP_001027	I	V	IV	benign
rs10852434	NP_003860	G	R	GR	benign

rs10852434	NP_932327	G	R	GR	benign
rs10852462	NP_060460	I	V	IV	benign
rs10852891	NP_004861	A	T	AT	benign
rs10852985	NP_694960	I	V	IV	benign
rs10853217	XP_091830	S	G	SG	benign
rs10853751	NP_064543	T	M	TM	benign
rs10857971	NP_005158	I	V	IV	benign
rs10859974	NP_872302	M	V	MV	benign
rs10864004	XP_086616	I	T	IT	benign
rs10864628	NP_803883	K	E	KE	benign
rs10864628	NP_619642	K	E	KE	benign
rs10868138	NP_071410	Y	C	YC	probably damaging
rs10868420	XP_497064	D	G	DG	probably damaging
rs10868670	NP_849150	E	V	EV	benign
rs10871453	NP_078947	D	E	DE	benign
rs10872670	NP_005091	K	E	KE	benign
rs10872670	NP_653080	K	E	KE	benign
rs10875472	NP_005284	H	R	HR	benign
rs10876209	XP_377265	D	G	DG	possibly damaging
rs10876360	NP_775487	A	T	AT	benign
rs10878073	NP_776173	A	S	AS	benign
rs10878074	NP_776173	V	A	VA	benign
rs10878307	XP_058513	I	V	IV	benign
rs10881994	NP_689642	A	T	AT	benign
rs10882993	NP_653189	V	G	VG	possibly damaging
rs10883100	NP_068600	F	Y	FY	benign
rs10883563	NP_060591	Y	S	YS	benign
rs10883841	NP_036361	T	A	TA	benign
rs10883859	NP_008882	S	A	SA	benign
rs10885330	XP_497249	A	S	AS	benign
rs10887063	NP_996744	L	F	LF	benign
rs10887621	NP_055860	V	I	VI	benign
rs10888228	NP_543023	A	T	AT	benign
rs10888267	XP_291438	R	C	RC	probably damaging
rs10888338	XP_291439	A	V	AV	benign
rs10888338	XP_372826	A	V	AV	benign
rs10888359	XP_291437	V	F	VF	benign
rs10888390	NP_004070	R	W	RW	benign
rs10889205	NP_036553	E	D	ED	benign
rs10890850	NP_055880	N	Y	NY	possibly damaging
rs10891314	NP_001922	D	N	DN	benign
rs10891338	NP_114144	L	P	LP	probably damaging
rs10891692	NP_689528	G	R	GR	probably damaging
rs10893099	XP_290501	N	S	NS	benign
rs10893172	XP_370662	S	C	SC	benign
rs10893192	XP_166767	M	V	MV	probably damaging

rs10893933	NP_055176	N	S	NS	benign
rs10894006	NP_997314	K	N	KN	possibly damaging
rs10895391	XP_370652	A	V	AV	benign
rs10895991	NP_005177	R	P	RP	benign
rs10896309	XP_166805	M	T	MT	benign
rs10896310	XP_166805	M	I	MI	benign
rs10896380	NP_002171	V	I	VI	benign
rs10896488	XP_372400	I	T	IT	possibly damaging
rs10896516	XP_372403	Y	H	YH	benign
rs10896517	XP_372403	Y	C	YC	benign
rs10896818	NP_005829	S	T	ST	benign
rs10896818	NP_964011	S	T	ST	benign
rs10897424	NP_473449	G	S	GS	benign
rs10899257	XP_495887	P	S	PS	probably damaging
rs10900236	XP_495809	P	A	PA	benign
rs10900400	XP_372792	D	G	DG	possibly damaging
rs10900416	XP_496406	R	C	RC	benign
rs10900562	NP_055750	R	K	RK	benign
rs10900571	NP_055750	V	I	VI	benign
rs10901333	NP_006050	G	E	GE	possibly damaging
rs10901425	NP_671724	V	A	VA	benign
rs10902170	NP_932341	R	G	RG	possibly damaging
rs10902171	NP_932341	D	H	DH	benign
rs10902221	NP_060964	R	Q	RQ	benign
rs10902221	NP_665894	R	Q	RQ	benign
rs10902221	NP_665893	R	Q	RQ	benign
rs10902269	XP_290540	N	T	NT	possibly damaging
rs10902270	XP_290540	H	L	HL	probably damaging
rs10902758	NP_000274	I	V	IV	benign
rs10904481	NP_444277	R	G	RG	possibly damaging
rs10904516	NP_059118	R	K	RK	benign
rs10907376	NP_689823	D	G	DG	possibly damaging
rs10907643	XP_372094	P	L	PL	probably damaging
rs10907870	XP_497051	Q	H	QH	possibly damaging
rs10908495	NP_653181	I	V	IV	benign
rs10908496	NP_653181	P	S	PS	possibly damaging
rs10908722	NP_036483	I	M	IM	benign
rs10908880	XP_372110	A	V	AV	benign
rs10909295	XP_495908	H	Y	HY	benign
rs10909782	XP_497039	L	F	LF	benign
rs10909782	XP_497029	L	F	LF	benign
rs10909820	NP_997239	A	S	AS	benign
rs10910024	NP_689705	T	M	TM	benign
rs10910120	NP_079214	T	A	TA	benign
rs10910120	NP_055616	T	A	TA	benign
rs10910439	NP_005637	A	T	AT	benign



rs10910779	NP_077719	S	P	SP	benign
rs10910779	NP_982283	S	P	SP	possibly damaging
rs10911390	NP_982279	V	M	VM	benign
rs10911391	NP_982279	P	S	PS	benign
rs10912704	XP_086409	D	N	DN	possibly damaging
rs10912705	XP_086409	D	N	DN	benign
rs10913933	NP_002817	G	R	GR	benign
rs10914632	NP_277039	L	F	LF	benign
rs10914692	NP_932157	P	S	PS	possibly damaging
rs10915230	XP_033704	R	L	RL	possibly damaging
rs10915231	NP_005617	S	I	SI	benign
rs10916246	NP_003386	V	M	VM	benign
rs10916668	XP_375697	A	T	AT	benign
rs10916769	NP_653224	K	R	KR	benign
rs10916883	NP_003751	G	S	GS	possibly damaging
rs10917051	XP_377577	N	T	NT	benign
rs10917536	NP_859070	Q	K	QK	benign
rs10919224	NP_002146	A	T	AT	benign
rs10919225	NP_002146	N	S	NS	possibly damaging
rs10919226	NP_002146	D	N	DN	benign
rs10919847	XP_291577	T	N	TN	possibly damaging
rs10920171	NP_000290	A	V	AV	benign
rs10921310	NP_057150	R	W	RW	possibly damaging
rs10922938	NP_958357	A	V	AV	benign
rs10925169	XP_375853	L	M	LM	benign
rs10927851	NP_060026	F	S	FS	benign
rs10927887	NP_004061	R	G	RG	possibly damaging
rs10929757	NP_055483	N	T	NT	benign
rs10929757	NP_149081	N	T	NT	benign
rs10929757	NP_683701	T	N	TN	benign
rs10930046	NP_071451	H	R	HR	benign
rs10931715	NP_061720	R	C	RC	possibly damaging
rs10932258	NP_055855	N	S	NS	benign
rs10932816	XP_051017	M	T	MT	benign
rs10933819	NP_001618	G	D	GD	possibly damaging
rs10935070	NP_008958	N	S	NS	benign
rs10936600	NP_699184	L	I	LI	benign
rs10937187	NP_071432	A	S	AS	benign
rs10941112	NP_055139	G	D	GD	benign
rs10941412	NP_003990	E	K	EK	benign
rs10943299	NP_001554	R	W	RW	probably damaging
rs10943926	NP_055833	P	L	PL	probably damaging
rs10944433	XP_072402	K	E	KE	benign
rs10945501	NP_999627	T	P	TP	possibly damaging
rs10946705	XP_376472	G	A	GA	possibly damaging
rs10946829	NP_076923	V	I	VI	benign

rs10946863	XP_496798	H	Q	HQ	probably damaging
rs10946864	XP_496798	V	L	VL	benign
rs10947230	NP_061978	R	H	RH	possibly damaging
rs10947383	NP_002112	L	M	LM	benign
rs10947623	XP_371818	V	I	VI	benign
rs10947690	NP_705691	L	P	LP	possibly damaging
rs10947804	NP_113648	S	G	SG	benign
rs10948072	NP_055160	T	I	TI	benign
rs10949483	NP_940988	P	L	PL	probably damaging
rs10949885	NP_699194	K	E	KE	benign
rs10949946	NP_006515	E	G	EG	benign
rs10950797	NP_689771	R	H	RH	benign
rs10950951	XP_171158	R	C	RC	benign
rs10951154	NP_705873	H	R	HR	benign
rs10951154	NP_005513	H	R	HR	probably damaging
rs10951942	XP_059832	A	S	AS	benign
rs10952230	XP_376720	N	S	NS	benign
rs10954696	XP_168530	V	I	VI	benign
rs10957393	NP_065094	F	L	FL	benign
rs10959293	NP_997188	I	F	IF	benign
rs10961917	NP_689787	T	P	TP	benign
rs10962043	NP_150091	S	F	SF	benign
rs10962043	NP_066967	S	F	SF	possibly damaging
rs10962127	NP_775821	N	I	NI	probably damaging
rs10964136	XP_294540	A	V	AV	benign
rs10964742	NP_060264	E	K	EK	benign
rs10966026	NP_004423	Q	H	QH	probably damaging
rs10967589	NP_004244	A	G	AG	benign
rs10970979	NP_982272	N	S	NS	benign
rs10971523	NP_631981	P	S	PS	probably damaging
rs10971523	NP_075068	P	S	PS	probably damaging
rs10971808	NP_060919	S	L	SL	possibly damaging
rs10971808	NP_065918	S	L	SL	possibly damaging
rs10971809	NP_060919	P	L	PL	probably damaging
rs10971809	NP_065918	P	L	PL	probably damaging
rs10972026	NP_919289	S	C	SC	benign
rs10972055	XP_498309	G	S	GS	benign
rs10972056	XP_498309	S	R	SR	benign
rs10972057	XP_498309	E	D	ED	benign
rs10972276	XP_048592	R	P	RP	possibly damaging
rs10972787	NP_001824	R	L	RL	possibly damaging
rs10972787	NP_009027	R	Q	RQ	possibly damaging
rs10973368	NP_071935	V	I	VI	benign
rs10973986	NP_689842	P	L	PL	probably damaging
rs10974150	NP_387504	G	V	GV	benign
rs10974151	NP_387504	S	Y	SY	probably damaging

rs10974657	NP_060455	G	R	GR	possibly damaging
rs10974946	NP_004963	E	K	EK	possibly damaging
rs10975269	XP_039698	R	T	RT	possibly damaging
rs10975674	NP_000161	R	C	RC	probably damaging
rs10975973	NP_055876	L	F	LF	benign
rs10976432	XP_373275	H	Y	HY	benign
rs10977171	NP_569077	Q	E	QE	benign
rs10977171	NP_569075	Q	E	QE	possibly damaging
rs10977171	NP_569076	Q	E	QE	possibly damaging
rs10977171	NP_002830	Q	E	QE	possibly damaging
rs10978001	NP_067063	A	T	AT	benign
rs10979599	NP_003631	T	N	TN	benign
rs10979601	NP_003631	G	E	GE	benign
rs10979858	NP_002820	T	A	TA	benign
rs10980984	NP_004116	V	M	VM	benign
rs10981506	XP_376902	G	D	GD	benign
rs10981558	XP_372133	L	H	LH	possibly damaging
rs10983107	NP_002572	S	N	SN	benign
rs10983315	NP_000371	V	I	VI	benign
rs10984919	NP_060719	G	R	GR	benign
rs10985042	XP_378080	S	G	SG	benign
rs10985630	NP_000953	A	V	AV	benign
rs10985704	XP_071150	T	P	TP	possibly damaging
rs10985760	XP_373315	I	T	IT	possibly damaging
rs10985765	NP_005449	T	A	TA	benign
rs10987632	NP_055395	S	I	SI	possibly damaging
rs10987769	NP_078918	V	E	VE	possibly damaging
rs10987947	NP_004399	R	S	RS	probably damaging
rs10988518	NP_055321	A	T	AT	benign
rs10988532	NP_001846	T	M	TM	benign
rs10989492	NP_932094	R	K	RK	benign
rs10989492	NP_003443	R	K	RK	benign
rs10989495	NP_000026	I	N	IN	probably damaging
rs10989563	NP_597702	D	N	DN	benign
rs10989589	NP_597702	G	R	GR	possibly damaging
rs10989591	NP_597702	V	M	VM	benign
rs10991292	XP_071098	V	A	VA	benign
rs10991304	XP_071096	S	T	ST	benign
rs10991326	XP_373308	L	H	LH	probably damaging
rs10992251	XP_372128	C	S	CS	benign
rs10993152	NP_919301	R	S	RS	possibly damaging
rs10993163	XP_030729	P	S	PS	possibly damaging
rs10994189	NP_001140	I	M	IM	benign
rs10994189	NP_066267	I	M	IM	benign
rs10995569	NP_001001330	Q	R	QR	benign
rs10997754	NP_037398	D	H	DH	benign

rs10997975	NP_115967	N	S	NS	benign
rs10998268	XP_495828	R	C	RC	possibly damaging
rs10998484	NP_076950	P	L	PL	probably damaging
rs10999147	NP_116186	M	T	MT	probably damaging
rs10999334	NP_060525	E	K	EK	benign
rs10999406	XP_166125	G	R	GR	benign
rs10999503	NP_542453	G	R	GR	possibly damaging
rs10999503	NP_631894	G	R	GR	possibly damaging
rs10999516	NP_542453	S	N	SN	benign
rs10999516	NP_631894	S	N	SN	benign
rs10999544	XP_291745	C	S	CS	probably damaging
rs10999947	NP_071407	S	N	SN	benign
rs11001247	NP_036462	D	E	DE	benign
rs11001248	NP_036462	E	D	ED	benign
rs11001408	NP_006249	L	M	LM	benign
rs11001564	NP_036374	E	K	EK	benign
rs11004439	NP_149045	S	A	SA	benign
rs11006128	NP_003192	S	T	ST	benign
rs11006622	XP_290463	M	T	MT	benign
rs11006655	NP_919274	D	E	DE	benign
rs11007110	XP_377109	D	V	DV	probably damaging
rs11007612	NP_003165	S	P	SP	benign
rs11007612	NP_068506	S	P	SP	benign
rs11011379	NP_066383	K	E	KE	benign
rs11011935	NP_689938	F	L	FL	benign
rs11012351	NP_006384	Q	K	QK	benign
rs11013233	NP_775104	S	P	SP	possibly damaging
rs11014178	NP_065875	S	F	SF	possibly damaging
rs11015273	NP_005461	S	R	SR	possibly damaging
rs11015543	NP_055078	Q	H	QH	possibly damaging
rs11015543	NP_647474	Q	H	QH	possibly damaging
rs11015543	NP_647473	Q	H	QH	possibly damaging
rs11015572	NP_055078	V	I	VI	benign
rs11015572	NP_647474	V	I	VI	benign
rs11015572	NP_647473	V	I	VI	benign
rs11015859	NP_067075	A	T	AT	benign
rs11016071	NP_002408	Q	R	QR	benign
rs11016072	NP_002408	R	H	RH	benign
rs11016073	NP_002408	I	T	IT	benign
rs11016074	NP_002408	T	S	TS	benign
rs11016076	NP_002408	E	D	ED	benign
rs11018744	XP_372423	A	G	AG	benign
rs11018769	XP_061880	C	S	CS	benign
rs11018879	NP_005458	V	I	VI	benign
rs11019909	XP_497314	E	G	EG	possibly damaging
rs11019910	XP_497314	E	K	EK	benign

rs11020845	NP_689644	Q	L	QL	benign
rs11020968	NP_570899	P	L	PL	probably damaging
rs11021068	NP_653266	V	I	VI	benign
rs11021069	NP_653266	I	T	IT	benign
rs11022079	NP_060414	V	G	VG	possibly damaging
rs11022089	NP_060414	A	G	AG	benign
rs11022802	NP_115696	R	K	RK	benign
rs11023230	XP_497267	Q	L	QL	benign
rs11023804	NP_201583	T	I	TI	possibly damaging
rs11024269	XP_370615	A	E	AE	benign
rs11024333	XP_291816	R	Q	RQ	benign
rs11024341	XP_291816	A	V	AV	benign
rs11024532	NP_473373	A	V	AV	benign
rs11024773	NP_116170	H	R	HR	probably damaging
rs11024885	NP_671732	I	V	IV	benign
rs11024970	NP_473371	N	H	NH	possibly damaging
rs11025585	NP_005779	S	C	SC	possibly damaging
rs11031390	XP_372343	S	R	SR	benign
rs11031961	XP_089858	T	I	TI	probably damaging
rs11032229	NP_005725	S	N	SN	benign
rs11032296	XP_061676	R	C	RC	benign
rs11033139	XP_372349	L	P	LP	benign
rs11033639	NP_079117	P	S	PS	possibly damaging
rs11033793	XP_171424	H	R	HR	benign
rs11033800	XP_171424	R	M	RM	probably damaging
rs11033801	XP_171424	F	S	FS	benign
rs11034596	XP_061619	E	K	EK	benign
rs11035396	XP_061610	R	W	RW	benign
rs11036212	XP_210181	L	F	LF	benign
rs11036815	NP_149420	P	S	PS	probably damaging
rs11037443	XP_372356	I	M	IM	benign
rs11037445	XP_372356	V	L	VL	possibly damaging
rs11037502	XP_372357	R	H	RH	probably damaging
rs11037682	NP_057226	M	T	MT	probably damaging
rs11037758	XP_372359	R	W	RW	probably damaging
rs11037840	XP_372375	V	M	VM	benign
rs11038628	NP_149023	G	D	GD	benign
rs11038628	NP_149083	G	D	GD	benign
rs11038628	NP_149084	G	D	GD	benign
rs11038713	NP_689525	R	W	RW	possibly damaging
rs11038988	NP_055571	Y	C	YC	probably damaging
rs11039036	XP_372364	G	W	GW	possibly damaging
rs11039302	NP_060565	D	N	DN	benign
rs11039302	NP_057590	D	N	DN	benign
rs11039323	NP_055157	D	G	DG	possibly damaging
rs11039531	NP_002834	A	T	AT	benign

rs11039554	NP_002834	I	T	IT	benign
rs11040127	XP_372378	S	N	SN	benign
rs11040249	XP_062269	I	V	IV	benign
rs11040260	XP_497280	R	C	RC	probably damaging
rs11040592	XP_497281	W	R	WR	probably damaging
rs11040779	XP_171528	V	I	VI	benign
rs11040799	XP_062263	L	Q	LQ	possibly damaging
rs11040808	NP_115503	Q	H	QH	benign
rs11040904	NP_775860	F	L	FL	benign
rs11040934	NP_056139	A	P	AP	benign
rs11040980	XP_495863	E	K	EK	benign
rs11040982	XP_495863	K	R	KR	benign
rs11040983	XP_495863	S	N	SN	benign
rs11040984	XP_495863	Q	R	QR	benign
rs11040985	XP_495863	C	Y	CY	probably damaging
rs11041107	NP_037382	N	S	NS	benign
rs11041108	NP_037382	M	V	MV	benign
rs11041115	NP_037382	S	F	SF	benign
rs11041151	NP_789792	L	F	LF	benign
rs11041525	NP_001001336	E	A	EA	benign
rs11041525	NP_057313	E	A	EA	benign
rs11042015	XP_084529	Q	K	QK	benign
rs11042021	XP_084529	V	A	VA	benign
rs11042022	XP_084529	H	R	HR	probably damaging
rs11042023	XP_084529	H	R	HR	possibly damaging
rs11042047	NP_005409	S	F	SF	possibly damaging
rs11042047	NP_998783	S	F	SF	possibly damaging
rs11042047	NP_631896	S	F	SF	possibly damaging
rs11042127	NP_065694	V	L	VL	benign
rs11042340	NP_006382	T	N	TN	possibly damaging
rs11042352	NP_006382	L	F	LF	benign
rs11042836	NP_000471	R	W	RW	possibly damaging
rs11043758	XP_495906	R	H	RH	possibly damaging
rs11045676	XP_292093	F	Y	FY	benign
rs11045681	XP_292093	Y	C	YC	probably damaging
rs11045689	XP_292093	A	T	AT	benign
rs11045699	XP_292093	F	L	FL	probably damaging
rs11045819	NP_006437	P	T	PT	possibly damaging
rs11045852	NP_006437	I	V	IV	benign
rs11045853	NP_006437	R	Q	RQ	possibly damaging
rs11046282	NP_061156	K	E	KE	benign
rs11049005	NP_064568	A	V	AV	benign
rs11049488	NP_060788	T	A	TA	benign
rs11049614	NP_060788	M	V	MV	benign
rs11051266	XP_495917	S	L	SL	possibly damaging
rs11051274	XP_495917	N	S	NS	benign

rs11051523	NP_776163	L	V	LV	benign
rs11051567	XP_084845	A	T	AT	benign
rs11053646	NP_002534	K	N	KN	benign
rs11053796	NP_002251	H	R	HR	probably damaging
rs11054042	NP_076406	L	V	LV	benign
rs11054043	NP_076406	K	Q	KQ	benign
rs11054044	NP_076406	S	T	ST	benign
rs11054133	NP_795371	S	N	SN	benign
rs11055067	NP_110444	L	F	LF	benign
rs11055164	NP_061124	A	D	AD	benign
rs11055254	NP_055533	Q	H	QH	possibly damaging
rs11056560	NP_109596	G	C	GC	possibly damaging
rs11056560	NP_109595	G	C	GC	possibly damaging
rs11056560	NP_109592	G	C	GC	probably damaging
rs11056560	NP_002839	G	C	GC	probably damaging
rs11057306	NP_065987	N	S	NS	benign
rs11057401	NP_079416	S	C	SC	benign
rs11057808	NP_937883	T	S	TS	benign
rs11057808	NP_002947	T	S	TS	benign
rs11057939	NP_116045	R	Q	RQ	benign
rs11060094	NP_689972	K	Q	KQ	benign
rs11060869	XP_044334	D	N	DN	benign
rs11061318	NP_942122	S	L	SL	benign
rs11061915	NP_003035	V	I	VI	benign
rs11063113	NP_065689	L	V	LV	benign
rs11063156	NP_066276	L	M	LM	benign
rs11063218	NP_006470	P	A	PA	probably damaging
rs11063266	NP_006413	T	S	TS	benign
rs11063529	NP_775864	R	Q	RQ	benign
rs11063570	NP_775864	R	Q	RQ	benign
rs11063987	NP_000543	N	S	NS	benign
rs11063988	NP_000543	I	V	IV	benign
rs11064002	NP_000543	F	S	FS	probably damaging
rs11064012	NP_000543	P	L	PL	probably damaging
rs11064419	NP_000607	F	S	FS	probably damaging
rs11064421	NP_000607	I	T	IT	possibly damaging
rs11064463	NP_001966	E	D	ED	benign
rs11065998	NP_006759	D	Y	DY	probably damaging
rs11066013	NP_079523	L	V	LV	benign
rs11066214	NP_776174	P	L	PL	probably damaging
rs11068230	NP_699179	R	G	RG	possibly damaging
rs11068298	NP_671737	A	T	AT	benign
rs11068298	NP_067638	A	T	AT	benign
rs11068997	NP_476510	A	V	AV	benign
rs11070136	NP_055749	P	S	PS	probably damaging
rs11070136	NP_945319	P	S	PS	probably damaging

rs11071896	NP_060445	S	G	SG	benign
rs11072170	XP_375185	G	E	GE	possibly damaging
rs11072476	NP_065902	P	S	PS	possibly damaging
rs11072532	NP_056307	D	G	DG	possibly damaging
rs11072735	NP_055977	A	V	AV	benign
rs11073619	NP_116245	R	H	RH	benign
rs11073922	NP_057729	L	F	LF	benign
rs11073964	NP_061138	S	G	SG	benign
rs11074359	NP_057222	T	M	TM	possibly damaging
rs11074362	XP_091331	P	S	PS	possibly damaging
rs11074471	NP_060206	E	D	ED	benign
rs11074656	NP_443176	V	A	VA	benign
rs11076126	NP_659461	E	K	EK	benign
rs11076256	NP_002071	G	S	GS	benign
rs11077733	NP_000990	K	E	KE	possibly damaging
rs11078738	NP_036525	L	P	LP	possibly damaging
rs11078993	NP_002269	R	Q	RQ	possibly damaging
rs11079339	NP_000493	I	M	IM	benign
rs11079346	NP_004749	H	R	HR	benign
rs11080134	NP_079133	E	G	EG	possibly damaging
rs11081992	NP_064565	A	D	AD	benign
rs11082414	NP_056374	V	L	VL	benign
rs11083543	NP_003881	V	L	VL	benign
rs11083711	NP_942147	R	Q	RQ	benign
rs11083750	NP_000032	P	R	PR	probably damaging
rs11083761	NP_940880	R	C	RC	possibly damaging
rs11084161	XP_496320	T	N	TN	benign
rs11084162	XP_496320	I	V	IV	benign
rs11084163	XP_496320	T	A	TA	benign
rs11084210	XP_064856	S	L	SL	probably damaging
rs11084810	NP_542167	L	M	LM	benign
rs11084810	NP_002352	L	M	LM	benign
rs11084897	XP_059051	L	V	LV	benign
rs11085147	NP_004784	R	Q	RQ	benign
rs11085198	NP_000055	L	P	LP	possibly damaging
rs11085438	XP_496300	C	R	CR	probably damaging
rs11085439	XP_496300	R	K	RK	benign
rs11085447	XP_497613	S	L	SL	probably damaging
rs11085808	NP_110451	G	R	GR	probably damaging
rs11085809	NP_110451	M	T	MT	probably damaging
rs11086065	NP_689576	R	Q	RQ	benign
rs11086690	NP_817089	R	G	RG	benign
rs11086998	NP_001241	P	A	PA	benign
rs11088262	NP_001688	K	R	KR	benign
rs11088674	NP_002763	N	H	NH	benign
rs11089942	NP_000958	P	L	PL	probably damaging



rs11089979	NP_009059	S	L	SL	benign
rs11089991	NP_000017	K	M	KM	benign
rs11090865	NP_060476	A	S	AS	benign
rs11092252	XP_497133	H	R	HR	benign
rs11094772	XP_372199	S	F	SF	possibly damaging
rs11095722	NP_848565	G	D	GD	possibly damaging
rs11096955	NP_112218	I	L	IL	benign
rs11096957	NP_112218	N	H	NH	benign
rs11096964	NP_612398	R	G	RG	probably damaging
rs11098044	NP_000195	A	T	AT	benign
rs11098261	NP_003351	M	I	MI	possibly damaging
rs11098513	XP_114415	V	A	VA	possibly damaging
rs11098523	XP_376342	I	S	IS	possibly damaging
rs11098943	NP_689991	G	R	GR	benign
rs11099592	NP_006656	R	K	RK	benign
rs11101143	NP_736609	Q	E	QE	benign
rs11101224	NP_060715	T	M	TM	benign
rs11101272	NP_689641	A	T	AT	benign
rs11101618	NP_689856	A	S	AS	benign
rs11101618	NP_208383	A	S	AS	benign
rs11101619	NP_689856	S	G	SG	benign
rs11101619	NP_208383	S	G	SG	benign
rs11101620	NP_689856	R	Q	RQ	benign
rs11101620	NP_208383	R	Q	RQ	benign
rs11101675	NP_001100	G	R	GR	benign
rs11101677	NP_006650	A	T	AT	benign
rs11101682	NP_006650	I	T	IT	benign
rs11101822	NP_963858	P	A	PA	possibly damaging
rs11101822	NP_570140	P	A	PA	possibly damaging
rs11101958	XP_104657	A	T	AT	benign
rs11102001	NP_078802	P	S	PS	possibly damaging
rs11102001	NP_573444	P	S	PS	possibly damaging
rs11102001	NP_620641	P	S	PS	possibly damaging
rs11102529	XP_060943	T	R	TR	possibly damaging
rs11102700	NP_073747	S	F	SF	benign
rs11104703	NP_689802	R	H	RH	benign
rs11104729	XP_374989	I	V	IV	benign
rs11107500	NP_005752	E	K	EK	benign
rs11109474	NP_078961	L	F	LF	benign
rs11109968	NP_699195	R	G	RG	probably damaging
rs11109969	NP_699195	M	V	MV	benign
rs11110226	XP_045423	I	M	IM	benign
rs11114416	NP_775862	L	F	LF	benign
rs11115344	NP_689801	E	K	EK	benign
rs11118075	NP_057136	K	N	KN	benign
rs11118983	NP_079455	Q	H	QH	possibly damaging

rs11119014	NP_079455	Q	R	QR	benign
rs11119315	NP_065172	V	I	VI	benign
rs11120047	NP_054772	A	P	AP	benign
rs11120301	NP_064582	I	M	IM	benign
rs11121804	NP_940947	F	L	FL	benign
rs11121996	XP_497650	D	Y	DY	probably damaging
rs11122050	XP_496343	S	N	SN	benign
rs11122050	XP_496345	S	N	SN	benign
rs11122073	XP_497652	G	D	GD	benign
rs11122075	XP_497652	E	K	EK	benign
rs11122076	XP_497652	Q	H	QH	probably damaging
rs11122266	NP_055051	V	I	VI	benign
rs11122770	XP_374318	R	M	RM	benign
rs11123868	NP_775918	S	G	SG	benign
rs11124638	XP_165448	P	L	PL	benign
rs11124652	NP_659432	H	Y	HY	benign
rs11124652	NP_945314	H	Y	HY	benign
rs11124652	NP_663621	H	Y	HY	possibly damaging
rs11126472	NP_115557	R	H	RH	possibly damaging
rs11126879	XP_372923	R	Q	RQ	benign
rs11128668	XP_376207	C	Y	CY	probably damaging
rs11130097	NP_003203	V	A	VA	benign
rs11130191	NP_115692	S	P	SP	benign
rs11130296	XP_496643	R	Q	RQ	possibly damaging
rs11132306	NP_689988	S	F	SF	benign
rs11134804	NP_150377	Q	E	QE	benign
rs11135721	XP_114618	L	R	LR	benign
rs11136334	NP_958786	R	Q	RQ	benign
rs11136334	NP_958785	R	Q	RQ	benign
rs11136334	NP_958784	R	Q	RQ	benign
rs11136334	NP_958783	R	Q	RQ	benign
rs11136334	NP_958781	R	Q	RQ	benign
rs11136334	NP_958780	R	Q	RQ	benign
rs11136334	NP_000436	R	Q	RQ	benign
rs11136336	NP_958786	A	V	AV	benign
rs11136336	NP_958785	A	V	AV	benign
rs11136336	NP_958784	A	V	AV	benign
rs11136336	NP_958783	A	V	AV	benign
rs11136336	NP_958782	A	V	AV	benign
rs11136336	NP_958781	A	V	AV	benign
rs11136336	NP_958780	A	V	AV	benign
rs11136336	NP_000436	A	V	AV	benign
rs11136343	XP_378197	L	P	LP	benign
rs11136344	XP_378197	I	V	IV	benign
rs11137198	NP_079033	A	T	AT	benign
rs11137342	NP_000709	T	A	TA	benign

rs11137410	NP_689499	R	Q	RQ	benign
rs11138343	NP_008936	D	N	DN	possibly damaging
rs11138395	NP_004807	E	K	EK	benign
rs11138396	NP_004807	R	K	RK	benign
rs11140241	NP_079487	H	R	HR	probably damaging
rs11140503	NP_071410	P	Q	PQ	probably damaging
rs11141102	XP_372121	K	E	KE	benign
rs11141355	XP_497064	V	A	VA	benign
rs11141356	XP_497064	R	H	RH	benign
rs11142016	NP_849150	W	G	WG	probably damaging
rs11142017	NP_849150	H	R	HR	benign
rs11142365	NP_055925	H	R	HR	possibly damaging
rs11142969	NP_037522	E	K	EK	benign
rs11143384	NP_619636	R	W	RW	benign
rs11145014	XP_041018	E	K	EK	benign
rs11145016	XP_041018	V	I	VI	benign
rs11145017	XP_041018	M	I	MI	benign
rs11145757	XP_088459	E	D	ED	benign
rs11146581	XP_495853	A	T	AT	benign
rs11146955	XP_495939	L	P	LP	possibly damaging
rs11147241	XP_495940	M	T	MT	possibly damaging
rs11147258	NP_056209	D	N	DN	benign
rs11147259	NP_056209	Q	R	QR	benign
rs11147260	NP_056209	S	R	SR	benign
rs11149631	NP_631913	G	R	GR	possibly damaging
rs11150370	NP_877417	A	P	AP	probably damaging
rs11150805	XP_375500	R	W	RW	possibly damaging
rs11150843	NP_000143	H	R	HR	benign
rs11152067	NP_056092	T	P	TP	possibly damaging
rs11155191	XP_496827	D	E	DE	benign
rs11155242	NP_065188	K	Q	KQ	benign
rs11155297	NP_114409	A	E	AE	possibly damaging
rs11155687	NP_005380	V	I	VI	benign
rs11156587	XP_373378	P	A	PA	possibly damaging
rs11156878	XP_375074	N	S	NS	benign
rs11157729	NP_078834	A	D	AD	possibly damaging
rs11158685	XP_375087	H	R	HR	possibly damaging
rs11160825	XP_290629	D	N	DN	benign
rs11161065	NP_002733	R	K	RK	possibly damaging
rs11164112	NP_653306	S	G	SG	benign
rs11165091	NP_004806	P	L	PL	probably damaging
rs11165298	NP_659425	V	M	VM	benign
rs11165631	XP_496374	R	C	RC	benign
rs11165632	XP_496374	M	I	MI	probably damaging
rs11165778	XP_371267	S	P	SP	benign
rs11166332	XP_034086	Q	R	QR	benign

rs11167600	NP_113683	V	L	VL	benign
rs11167600	NP_113684	V	L	VL	benign
rs11167600	NP_061728	V	L	VL	benign
rs11167605	NP_113688	E	D	ED	possibly damaging
rs11167605	NP_061730	E	D	ED	possibly damaging
rs11167744	NP_114480	F	L	FL	benign
rs11167744	NP_114481	F	L	FL	benign
rs11167744	NP_061737	F	L	FL	benign
rs11168196	NP_078880	D	Y	DY	possibly damaging
rs11168459	XP_062553	Y	H	YH	benign
rs11169226	NP_000477	L	F	LF	benign
rs11169818	NP_009141	A	T	AT	benign
rs11170126	NP_005546	P	L	PL	probably damaging
rs11170164	NP_000415	G	E	GE	possibly damaging
rs11170176	NP_778223	L	Q	LQ	benign
rs11170177	NP_778223	N	K	NK	probably damaging
rs11170183	NP_542785	R	L	RL	probably damaging
rs11170187	NP_542785	N	D	ND	benign
rs11170203	NP_778238	G	R	GR	possibly damaging
rs11170271	NP_056932	A	T	AT	benign
rs11170289	NP_775487	R	H	RH	benign
rs11170343	NP_954657	N	D	ND	possibly damaging
rs11170343	NP_000215	N	D	ND	possibly damaging
rs11170389	NP_056134	S	T	ST	benign
rs11170389	NP_736610	S	T	ST	benign
rs11170389	NP_938072	S	T	ST	benign
rs11170883	NP_065103	G	D	GD	possibly damaging
rs11171453	XP_208080	N	S	NS	benign
rs11171717	NP_060111	S	Y	SY	benign
rs11171743	NP_001973	G	S	GS	benign
rs11171924	NP_006592	D	N	DN	possibly damaging
rs11172102	NP_003144	D	N	DN	benign
rs11172123	NP_002323	T	A	TA	benign
rs11172308	NP_006803	K	N	KN	benign
rs11172329	NP_996797	L	F	LF	benign
rs11174549	XP_051091	I	V	IV	benign
rs11175176	XP_292012	Q	H	QH	probably damaging
rs11175387	NP_009166	Q	H	QH	benign
rs11177386	NP_002383	V	I	VI	benign
rs11177386	NP_006872	V	I	VI	benign
rs11178192	NP_055330	A	T	AT	benign
rs11181011	NP_037509	Y	C	YC	probably damaging
rs11181469	NP_958846	R	K	RK	benign
rs11181469	NP_958847	R	K	RK	benign
rs11181469	NP_958848	R	K	RK	benign
rs11181469	NP_958923	R	K	RK	benign

rs11183450	NP_061849	N	K	NK	benign
rs11183610	NP_060488	T	M	TM	benign
rs11185863	NP_057279	E	Q	EQ	benign
rs11186740	NP_689642	K	R	KR	benign
rs11187225	NP_061926	L	V	LV	benign
rs11187265	NP_899230	R	Q	RQ	benign
rs11187393	NP_579899	R	C	RC	possibly damaging
rs11187393	NP_038479	R	C	RC	possibly damaging
rs11187583	NP_660289	S	F	SF	possibly damaging
rs11187892	NP_071896	R	I	RI	probably damaging
rs11187895	NP_071896	P	R	PR	benign
rs11188667	NP_037446	F	L	FL	possibly damaging
rs11188980	NP_056467	N	S	NS	benign
rs11189513	NP_055287	H	R	HR	possibly damaging
rs11189524	NP_115587	W	G	WG	probably damaging
rs11189525	NP_115587	P	T	PT	possibly damaging
rs11189596	NP_116098	Q	H	QH	possibly damaging
rs11189601	NP_872577	E	K	EK	benign
rs11189601	NP_000186	E	K	EK	benign
rs11190245	NP_065087	V	A	VA	benign
rs11190305	NP_056036	C	W	CW	benign
rs11190812	NP_112191	G	D	GD	possibly damaging
rs11191082	NP_071322	R	K	RK	benign
rs11191224	NP_004732	G	V	GV	possibly damaging
rs11191274	NP_004184	G	S	GS	benign
rs11191634	NP_116116	S	F	SF	possibly damaging
rs11191737	NP_004201	S	G	SG	benign
rs11191893	NP_055535	D	N	DN	benign
rs11191917	NP_000485	R	Q	RQ	benign
rs11191917	NP_570134	R	Q	RQ	benign
rs11192036	XP_089747	S	T	ST	benign
rs11196382	NP_004123	S	T	ST	benign
rs11196389	NP_006166	L	P	LP	benign
rs11196389	NP_932326	L	P	LP	benign
rs11196400	NP_006166	D	N	DN	benign
rs11196400	NP_932326	D	N	DN	benign
rs11196530	NP_055696	I	F	IF	benign
rs11196689	NP_115939	G	R	GR	probably damaging
rs11197738	NP_000927	V	I	VI	benign
rs11197744	NP_006220	N	D	ND	possibly damaging
rs11199082	NP_938145	L	M	LM	benign
rs11199082	NP_055752	L	M	LM	benign
rs11199127	NP_009121	R	L	RL	probably damaging
rs11200385	NP_996744	V	I	VI	benign
rs11200387	NP_996744	A	T	AT	benign
rs11200483	NP_996742	E	D	ED	benign

rs11200483	NP_996743	E	D	ED	benign
rs11200483	NP_996744	E	D	ED	benign
rs11200483	NP_008928	E	D	ED	benign
rs11200524	NP_653188	R	Q	RQ	benign
rs11200925	XP_291697	L	F	LF	benign
rs11200927	XP_291697	K	N	KN	benign
rs11200933	NP_056428	L	M	LM	benign
rs11201058	NP_061872	C	Y	CY	benign
rs11202271	NP_079032	L	M	LM	benign
rs11203289	NP_002991	A	G	AG	benign
rs11203335	NP_037490	R	H	RH	benign
rs11203366	NP_036519	S	G	SG	benign
rs11203367	NP_036519	A	V	AV	benign
rs11203494	NP_079043	N	D	ND	benign
rs11203495	NP_079043	Q	H	QH	benign
rs11204213	NP_002891	V	M	VM	benign
rs11204362	XP_496197	Y	H	YH	benign
rs11204523	NP_056246	S	W	SW	benign
rs11204545	XP_291438	M	K	MK	probably damaging
rs11204546	XP_291438	M	T	MT	possibly damaging
rs11204563	XP_291439	G	S	GS	benign
rs11204564	XP_291439	W	R	WR	benign
rs11204625	XP_060305	K	N	KN	benign
rs11204774	NP_653219	V	I	VI	benign
rs11204871	NP_112180	E	K	EK	benign
rs11204936	XP_373868	T	M	TM	benign
rs11204937	XP_373868	R	H	RH	benign
rs11204978	XP_048104	S	Y	SY	possibly damaging
rs11205137	NP_005538	Q	K	QK	benign
rs11205303	NP_870988	M	V	MV	benign
rs11205303	NP_006688	M	V	MV	benign
rs11205321	XP_497712	L	P	LP	probably damaging
rs11206394	NP_788954	G	A	GA	benign
rs11206407	NP_940949	H	R	HR	probably damaging
rs11207440	NP_006358	G	C	GC	benign
rs11207463	NP_060761	L	V	LV	benign
rs11207949	NP_859063	T	A	TA	benign
rs11208257	NP_002624	Y	H	YH	probably damaging
rs11208299	NP_073611	G	V	GV	possibly damaging
rs11209026	NP_653302	R	Q	RQ	benign
rs11209235	XP_015717	A	T	AT	benign
rs11210490	XP_371259	P	A	PA	benign
rs11210805	NP_689711	C	S	CS	probably damaging
rs11210882	NP_569707	A	G	AG	benign
rs11210882	NP_002831	A	G	AG	benign
rs11211337	NP_073582	G	S	GS	possibly damaging

rs11212587	NP_612149	G	R	GR	probably damaging
rs11212587	NP_000042	G	R	GR	probably damaging
rs11212684	NP_055880	R	Q	RQ	benign
rs11213242	XP_497318	R	Q	RQ	benign
rs11213538	NP_065860	T	A	TA	benign
rs11213935	NP_849156	V	M	VM	benign
rs11214077	NP_002993	H	R	HR	probably damaging
rs11214733	NP_065937	S	L	SL	possibly damaging
rs11215158	NP_872301	V	A	VA	benign
rs11216131	NP_116114	R	I	RI	possibly damaging
rs11216163	NP_079440	D	E	DE	benign
rs11216406	NP_065744	Y	H	YH	possibly damaging
rs11216935	NP_055972	L	F	LF	benign
rs11219384	XP_166780	G	C	GC	probably damaging
rs11219408	XP_372436	R	Q	RQ	benign
rs11219413	XP_166777	Q	R	QR	benign
rs11219420	XP_372437	I	V	IV	benign
rs11219508	XP_370662	L	P	LP	probably damaging
rs11219544	XP_166767	L	V	LV	possibly damaging
rs11221912	NP_064613	A	T	AT	benign
rs11221912	NP_955469	A	T	AT	benign
rs11222114	NP_620686	N	S	NS	benign
rs11223168	NP_055176	I	V	IV	benign
rs11223168	NP_780775	I	V	IV	benign
rs11225086	XP_374927	A	T	AT	benign
rs11225089	XP_374927	S	Y	SY	possibly damaging
rs11225090	XP_374927	I	T	IT	benign
rs11225091	XP_374927	A	T	AT	benign
rs11226609	XP_495898	T	A	TA	benign
rs11227236	NP_002410	I	V	IV	benign
rs11227245	XP_374898	R	C	RC	possibly damaging
rs11227386	NP_149025	L	M	LM	benign
rs11227461	NP_004283	V	I	VI	benign
rs11227599	XP_166820	T	I	TI	benign
rs11227664	NP_808878	N	H	NH	benign
rs11227675	NP_055393	H	R	HR	benign
rs11227873	NP_005986	Q	H	QH	possibly damaging
rs11228166	XP_166805	H	R	HR	possibly damaging
rs11228610	NP_620123	G	R	GR	possibly damaging
rs11228732	XP_372403	C	G	CG	possibly damaging
rs11228733	XP_372403	R	C	RC	benign
rs11228735	XP_372403	E	K	EK	benign
rs11229007	NP_002550	Q	H	QH	probably damaging
rs11229019	XP_495874	D	G	DG	possibly damaging
rs11229133	NP_001322	S	F	SF	possibly damaging
rs11229277	XP_166916	V	A	VA	benign

rs11229278	XP_166916	V	I	VI	benign
rs11229281	XP_166916	I	T	IT	probably damaging
rs11229301	XP_166918	R	C	RC	probably damaging
rs11229409	XP_497297	G	A	GA	benign
rs11229410	XP_497297	I	V	IV	benign
rs11229411	XP_497297	A	T	AT	benign
rs11229413	XP_497297	W	R	WR	possibly damaging
rs11229457	XP_372409	C	Y	CY	possibly damaging
rs11229458	XP_372409	E	K	EK	benign
rs11229651	NP_659453	K	E	KE	benign
rs11229878	XP_166227	P	S	PS	probably damaging
rs11230346	XP_166869	L	I	LI	benign
rs11230541	XP_166871	F	S	FS	possibly damaging
rs11230562	NP_006716	T	M	TM	possibly damaging
rs11230563	NP_006716	R	W	RW	probably damaging
rs11230600	XP_166872	I	T	IT	benign
rs11230707	NP_659454	T	N	TN	benign
rs11230983	XP_372386	R	H	RH	benign
rs11231180	XP_166879	V	M	VM	benign
rs11231197	XP_495877	G	E	GE	possibly damaging
rs11231241	NP_003155	Q	H	QH	possibly damaging
rs11231397	NP_955384	R	T	RT	benign
rs11231409	NP_955384	S	G	SG	benign
rs11231819	NP_060954	L	P	LP	possibly damaging
rs11231820	NP_060954	I	V	IV	benign
rs11231866	NP_005600	R	G	RG	benign
rs11231887	XP_290516	A	T	AT	benign
rs11233400	NP_055303	V	G	VG	possibly damaging
rs11233510	NP_056969	E	K	EK	benign
rs11235097	NP_075069	G	A	GA	benign
rs11235419	NP_006176	G	S	GS	benign
rs11235600	XP_058426	H	Y	HY	benign
rs11235604	XP_058426	R	W	RW	possibly damaging
rs11235995	NP_056346	R	Q	RQ	benign
rs11236045	NP_003617	L	F	LF	benign
rs11236045	NP_803172	L	F	LF	possibly damaging
rs11236938	NP_056331	S	N	SN	benign
rs11237145	NP_878253	I	V	IV	benign
rs11237146	NP_878253	H	Y	HY	possibly damaging
rs11238409	XP_380107	N	T	NT	benign
rs11238456	NP_061060	E	K	EK	benign
rs11239910	NP_899228	K	E	KE	benign
rs11239915	NP_899228	I	N	IN	benign
rs11239917	NP_899228	V	M	VM	benign
rs11240350	NP_005067	S	N	SN	benign
rs11240573	NP_689704	G	R	GR	possibly damaging



rs11240604	NP_055642	T	N	TN	possibly damaging
rs11240888	XP_371534	R	Q	RQ	possibly damaging
rs11240889	XP_371534	A	T	AT	benign
rs11240899	XP_371534	S	F	SF	possibly damaging
rs11240949	XP_291643	A	T	AT	benign
rs11241095	NP_644810	I	V	IV	benign
rs11243011	NP_006558	N	S	NS	benign
rs11243406	NP_009102	D	E	DE	benign
rs11243731	NP_055861	P	L	PL	probably damaging
rs11244035	NP_055396	V	I	VI	benign
rs11244036	NP_055396	R	W	RW	benign
rs11244275	NP_006050	R	W	RW	benign
rs11244323	XP_351855	L	F	LF	benign
rs11244366	NP_116117	L	V	LV	benign
rs11244674	NP_060650	E	D	ED	benign
rs11245007	XP_061055	D	N	DN	benign
rs11245008	XP_061055	R	H	RH	benign
rs11245254	NP_071409	V	M	VM	benign
rs11245379	NP_115558	L	I	LI	benign
rs11246020	NP_036371	V	I	VI	benign
rs11246181	NP_932341	H	Q	HQ	benign
rs11246212	XP_290536	V	A	VA	benign
rs11246606	XP_061656	S	F	SF	probably damaging
rs11246607	XP_061656	S	F	SF	benign
rs11246608	XP_061656	C	Y	CY	probably damaging
rs11246609	XP_061656	K	R	KR	benign
rs11246991	NP_068580	A	T	AT	benign
rs11247226	NP_859523	I	V	IV	benign
rs11247226	NP_859524	I	V	IV	benign
rs11247226	NP_060618	I	V	IV	benign
rs11247641	NP_004663	R	C	RC	possibly damaging
rs11247847	NP_004446	N	H	NH	possibly damaging
rs11247866	XP_371237	Q	R	QR	benign
rs11247933	NP_775845	R	L	RL	benign
rs11247975	NP_036577	A	E	AE	benign
rs11248156	XP_496692	D	Y	DY	benign
rs11248415	NP_004716	S	R	SR	possibly damaging
rs11248583	NP_940979	R	Q	RQ	possibly damaging
rs11248788	XP_370826	L	M	LM	benign
rs11248789	XP_370826	T	I	TI	benign
rs11248860	NP_036599	I	T	IT	benign
rs11248871	NP_003924	D	A	DA	benign
rs11248906	XP_496111	E	Q	EQ	benign
rs11248931	NP_067082	A	T	AT	benign
rs11250058	XP_114621	L	F	LF	benign
rs11250353	NP_061172	S	I	SI	possibly damaging

rs11252089	NP_001291	S	F	SF	possibly damaging
rs11253043	NP_001809	G	E	GE	benign
rs11254274	NP_001072	R	Q	RQ	benign
rs11254354	NP_001072	L	V	LV	benign
rs11254413	NP_004403	H	Y	HY	benign
rs11254692	NP_055056	F	V	FV	benign
rs11257369	NP_694988	T	A	TA	benign
rs11258194	NP_068815	M	K	MK	benign
rs11258509	NP_060497	T	K	TK	benign
rs11258565	NP_060497	Q	H	QH	benign
rs11259953	XP_058720	H	P	HP	benign
rs11259954	XP_058720	H	Q	HQ	benign
rs11260579	NP_002969	R	P	RP	probably damaging
rs11261835	XP_372094	P	L	PL	probably damaging
rs11262003	XP_372190	R	Q	RQ	benign
rs11262160	XP_497046	A	V	AV	benign
rs11263523	NP_444284	H	Q	HQ	probably damaging
rs11264300	NP_689707	L	M	LM	benign
rs11264496	NP_839943	D	N	DN	benign
rs11264498	NP_839943	V	L	VL	benign
rs11264581	XP_371320	R	H	RH	benign
rs11264609	XP_496418	Q	R	QR	possibly damaging
rs11264680	NP_859066	M	V	MV	benign
rs11264743	NP_570968	P	S	PS	possibly damaging
rs11266757	NP_005545	R	W	RW	probably damaging
rs11266773	NP_000996	T	P	TP	benign
rs11266781	NP_001393	Y	C	YC	possibly damaging
rs11266788	NP_001393	P	Q	PQ	benign
rs11266894	NP_000958	M	I	MI	benign
rs11266911	NP_005545	E	Q	EQ	benign
rs11267053	NP_000517	A	T	AT	benign
rs11465205	NP_877418	G	S	GS	benign
rs11465207	NP_002447	S	N	SN	benign
rs11465207	NP_877418	S	N	SN	benign
rs11465293	NP_002982	S	F	SF	possibly damaging
rs11465312	NP_002982	A	T	AT	benign
rs11465313	NP_002982	Q	E	QE	benign
rs11465374	NP_066978	H	R	HR	possibly damaging
rs11465376	NP_066978	R	Q	RQ	benign
rs11465377	NP_066978	E	D	ED	benign
rs11465379	NP_066978	K	N	KN	benign
rs11465380	NP_066978	L	V	LV	benign
rs11465393	NP_066978	A	S	AS	benign
rs11465492	NP_037410	R	G	RG	benign
rs11465553	NP_443104	V	I	VI	benign
rs11465553	NP_758846	V	I	VI	benign

rs11465635	NP_003846	R	H	RH	benign
rs11465644	NP_003846	N	K	NK	benign
rs11465648	NP_003846	S	N	SN	benign
rs11465716	NP_003844	V	I	VI	benign
rs11465797	NP_653302	T	N	TN	benign
rs11465829	NP_001560	T	I	TI	benign
rs11465830	NP_001560	R	H	RH	benign
rs11465972	NP_009130	I	V	IV	benign
rs11466004	NP_056179	P	S	PS	benign
rs11466110	NP_002497	V	M	VM	benign
rs11466111	NP_002497	R	Q	RQ	possibly damaging
rs11466112	NP_002497	R	W	RW	probably damaging
rs11466259	NP_003227	V	M	VM	benign
rs11466649	NP_112218	A	S	AS	benign
rs11466650	NP_112218	L	P	LP	benign
rs11466651	NP_112218	V	I	VI	benign
rs11466653	NP_112218	M	T	MT	benign
rs11466655	NP_112218	G	D	GD	possibly damaging
rs11466656	NP_112218	R	G	RG	possibly damaging
rs11466657	NP_112218	I	T	IT	benign
rs11466658	NP_112218	R	W	RW	possibly damaging
rs11466660	NP_112218	Y	C	YC	probably damaging
rs11466676	NP_683699	T	R	TR	benign
rs11466676	NP_004186	T	R	TR	benign
rs11466687	NP_683699	E	K	EK	benign
rs11466687	NP_683700	E	K	EK	benign
rs11466687	NP_004186	E	K	EK	benign
rs11466688	NP_683699	D	N	DN	benign
rs11466688	NP_683700	D	N	DN	benign
rs11466688	NP_004186	D	N	DN	benign
rs11466693	NP_683700	V	M	VM	benign
rs11466693	NP_004186	V	M	VM	benign
rs11466694	NP_004186	R	Q	RQ	benign
rs11466719	NP_891549	R	C	RC	benign
rs11466721	NP_891549	L	V	LV	benign
rs11466724	NP_891549	A	T	AT	benign
rs11466802	NP_150377	A	T	AT	benign
rs11466803	NP_150377	P	A	PA	possibly damaging
rs11485247	XP_496343	Y	H	YH	benign
rs11485247	XP_496345	Y	H	YH	benign
rs11487758	XP_496349	F	S	FS	benign
rs11488537	NP_056198	C	Y	CY	benign
rs11488569	XP_375718	M	T	MT	benign
rs11489970	NP_999626	H	Y	HY	benign
rs11489971	NP_999626	I	T	IT	benign
rs11489972	NP_999626	F	C	FC	possibly damaging

rs11491191	NP_001247	S	F	SF	possibly damaging
rs11491243	XP_497879	P	L	PL	possibly damaging
rs11498200	NP_004339	R	C	RC	benign
rs11499034	NP_005056	D	G	DG	possibly damaging
rs11499281	NP_060049	A	V	AV	benign
rs11499281	NP_015568	A	V	AV	benign
rs11499281	NP_004397	A	V	AV	benign
rs11499282	NP_004397	P	S	PS	benign
rs11502782	XP_495917	R	W	RW	possibly damaging
rs11504162	XP_372468	R	C	RC	probably damaging
rs11505886	NP_689963	V	I	VI	benign
rs11507224	XP_212241	S	R	SR	benign
rs11507224	XP_212238	S	R	SR	benign
rs11509436	NP_004823	S	C	SC	probably damaging
rs11509438	NP_004823	E	K	EK	benign
rs11509439	NP_004823	A	V	AV	benign
rs11510885	XP_495821	S	P	SP	benign
rs11512276	XP_210181	G	W	GW	benign
rs11513327	XP_495912	H	P	HP	possibly damaging
rs11516609	XP_495821	I	T	IT	possibly damaging
rs11516610	XP_495821	H	R	HR	benign
rs11524166	NP_878247	V	G	VG	probably damaging
rs11525962	XP_030729	S	A	SA	benign
rs11525962	XP_497069	S	A	SA	benign
rs11526468	NP_006369	A	T	AT	probably damaging
rs11526470	NP_795367	V	M	VM	benign
rs11528010	NP_004320	P	T	PT	benign
rs11531577	NP_036579	L	F	LF	benign
rs11531593	NP_000483	F	L	FL	benign
rs11535673	NP_795367	C	Y	CY	possibly damaging
rs11535718	XP_166777	A	V	AV	benign
rs11536884	NP_612566	L	F	LF	benign
rs11536884	NP_612567	L	F	LF	benign
rs11536982	NP_004130	N	K	NK	benign
rs11537112	XP_497039	H	L	HL	probably damaging
rs11537112	XP_497029	H	L	HL	probably damaging
rs11537119	NP_795367	R	T	RT	probably damaging
rs11537531	NP_808852	K	E	KE	benign
rs11537541	NP_000535	L	P	LP	possibly damaging
rs11537541	NP_061313	L	P	LP	possibly damaging
rs11537549	NP_775918	G	S	GS	possibly damaging
rs11537550	NP_631916	F	L	FL	benign
rs11537562	NP_001014	H	R	HR	benign
rs11537565	NP_001014	H	N	HN	benign
rs11537581	NP_114115	V	M	VM	benign
rs11537585	NP_690040	Y	C	YC	probably damaging

rs11537585	NP_003786	Y	C	YC	probably damaging
rs11537587	NP_690040	D	G	DG	possibly damaging
rs11537587	NP_003786	D	G	DG	possibly damaging
rs11537587	NP_690041	D	G	DG	possibly damaging
rs11537594	NP_000098	A	T	AT	benign
rs11537618	NP_000976	E	Q	EQ	benign
rs11537629	NP_078994	P	S	PS	possibly damaging
rs11537643	NP_000543	R	Q	RQ	benign
rs11537645	NP_008950	S	R	SR	benign
rs11537645	NP_861515	S	R	SR	possibly damaging
rs11537645	NP_861516	S	R	SR	possibly damaging
rs11537675	NP_003063	R	L	RL	probably damaging
rs11537685	NP_150638	V	G	VG	possibly damaging
rs11537686	NP_150638	Q	H	QH	possibly damaging
rs11537691	XP_497936	E	A	EA	benign
rs11537692	NP_851030	T	I	TI	benign
rs11537692	NP_851034	T	I	TI	benign
rs11537692	NP_073208	T	I	TI	benign
rs11537696	NP_055040	E	D	ED	possibly damaging
rs11537698	NP_055040	S	F	SF	benign
rs11537706	NP_006631	V	M	VM	benign
rs11537711	XP_371179	P	T	PT	possibly damaging
rs11537736	NP_114032	V	A	VA	benign
rs11537736	NP_004492	V	A	VA	benign
rs11537758	NP_066289	R	I	RI	probably damaging
rs11537768	NP_066289	T	I	TI	possibly damaging
rs11537775	NP_006380	T	I	TI	possibly damaging
rs11537796	NP_061111	G	R	GR	benign
rs11537818	NP_115735	Q	L	QL	probably damaging
rs11537826	NP_006830	L	V	LV	benign
rs11537828	NP_060140	E	D	ED	benign
rs11537835	NP_006017	A	P	AP	possibly damaging
rs11537843	NP_057231	L	V	LV	benign
rs11537847	XP_041221	L	V	LV	benign
rs11537862	NP_001003	K	E	KE	benign
rs11537863	NP_001003	E	D	ED	possibly damaging
rs11537866	NP_001003	K	E	KE	benign
rs11537868	NP_001003	V	L	VL	benign
rs11537870	NP_001003	R	G	RG	probably damaging
rs11537878	NP_000131	Q	K	QK	benign
rs11537879	NP_000131	Q	K	QK	benign
rs11537880	NP_000131	P	T	PT	probably damaging
rs11537881	NP_071344	S	I	SI	benign
rs11537882	NP_054907	S	A	SA	benign
rs11537888	NP_009194	V	A	VA	benign
rs11537888	NP_955474	V	A	VA	benign

rs11537888	NP_955476	V	A	VA	benign
rs11537909	NP_114174	P	L	PL	probably damaging
rs11537909	NP_036468	P	L	PL	probably damaging
rs11537910	NP_114174	E	D	ED	benign
rs11537910	NP_036468	E	D	ED	benign
rs11537965	NP_004330	P	Q	PQ	benign
rs11537967	NP_004330	C	S	CS	probably damaging
rs11537986	NP_006463	R	T	RT	possibly damaging
rs11537995	NP_005634	E	K	EK	benign
rs11537996	NP_005634	S	F	SF	possibly damaging
rs11538016	NP_002905	F	C	FC	probably damaging
rs11538016	NP_852136	F	C	FC	probably damaging
rs11538032	NP_008861	D	G	DG	probably damaging
rs11538032	NP_733779	D	G	DG	probably damaging
rs11538034	NP_008861	F	L	FL	probably damaging
rs11538034	NP_733779	F	L	FL	probably damaging
rs11538037	XP_377259	P	H	PH	possibly damaging
rs11538041	XP_377259	L	P	LP	probably damaging
rs11538042	XP_377259	P	H	PH	probably damaging
rs11538047	NP_115956	K	R	KR	benign
rs11538053	NP_000299	E	K	EK	benign
rs11538063	XP_496143	T	A	TA	benign
rs11538076	NP_612367	A	S	AS	benign
rs11538077	NP_001779	R	H	RH	benign
rs11538094	XP_375024	E	D	ED	benign
rs11538100	NP_001145	E	A	EA	probably damaging
rs11538111	NP_981944	L	F	LF	benign
rs11538111	NP_981946	L	F	LF	benign
rs11538111	NP_005554	L	F	LF	benign
rs11538113	NP_981944	M	T	MT	probably damaging
rs11538113	NP_981946	M	T	MT	probably damaging
rs11538113	NP_005554	M	T	MT	probably damaging
rs11538121	NP_981944	P	L	PL	probably damaging
rs11538121	NP_981946	P	L	PL	probably damaging
rs11538121	NP_005554	P	L	PL	probably damaging
rs11538124	NP_981944	N	D	ND	possibly damaging
rs11538124	NP_981946	N	D	ND	possibly damaging
rs11538124	NP_005554	N	D	ND	possibly damaging
rs11538141	NP_002766	E	G	EG	benign
rs11538142	NP_060305	D	G	DG	possibly damaging
rs11538142	NP_067077	D	G	DG	probably damaging
rs11538152	NP_004306	P	R	PR	probably damaging
rs11538152	NP_808592	P	R	PR	probably damaging
rs11538158	NP_203693	K	M	KM	probably damaging
rs11538161	NP_203693	D	N	DN	benign
rs11538169	NP_061886	K	R	KR	benign

rs11538170	NP_061886	R	C	RC	possibly damaging
rs11538172	NP_073571	V	M	VM	benign
rs11538177	NP_037403	Q	R	QR	benign
rs11538179	NP_037403	L	V	LV	benign
rs11538180	NP_037403	G	S	GS	benign
rs11538183	XP_290345	T	I	TI	benign
rs11538186	NP_005680	S	C	SC	benign
rs11538193	NP_060859	S	W	SW	probably damaging
rs11538208	NP_000468	M	K	MK	probably damaging
rs11538209	NP_000468	L	P	LP	probably damaging
rs11538213	NP_000468	F	I	FI	possibly damaging
rs11538214	NP_000468	E	V	EV	probably damaging
rs11538220	NP_000468	K	E	KE	probably damaging
rs11538221	NP_000468	E	G	EG	probably damaging
rs11538222	NP_000468	A	T	AT	benign
rs11538223	NP_000468	N	D	ND	possibly damaging
rs11538226	NP_000468	T	A	TA	benign
rs11538227	NP_000468	S	P	SP	benign
rs11538228	NP_000468	A	G	AG	possibly damaging
rs11538236	NP_004580	A	V	AV	benign
rs11538243	NP_003278	K	E	KE	benign
rs11538253	NP_004452	N	S	NS	possibly damaging
rs11538263	NP_004629	R	Q	RQ	benign
rs11538263	NP_542417	R	Q	RQ	benign
rs11538264	NP_004629	V	M	VM	benign
rs11538264	NP_542417	V	M	VM	benign
rs11538273	NP_006797	S	P	SP	benign
rs11538274	NP_006797	P	R	PR	probably damaging
rs11538284	NP_066952	D	N	DN	probably damaging
rs11538298	NP_004270	Q	E	QE	benign
rs11538308	NP_000999	D	H	DH	probably damaging
rs11538339	NP_055322	T	A	TA	benign
rs11538340	NP_004541	P	T	PT	benign
rs11538352	NP_005994	Q	R	QR	benign
rs11538355	NP_110379	P	T	PT	probably damaging
rs11538360	NP_036241	R	G	RG	possibly damaging
rs11538373	XP_371542	A	V	AV	benign
rs11538380	NP_005561	G	R	GR	probably damaging
rs11538410	NP_006005	E	G	EG	possibly damaging
rs11538412	NP_510883	L	V	LV	benign
rs11538412	NP_079417	L	V	LV	benign
rs11538420	NP_037386	F	L	FL	possibly damaging
rs11538428	NP_004554	K	Q	KQ	benign
rs11538429	NP_114404	E	D	ED	benign
rs11538436	XP_498351	Q	R	QR	benign
rs11538443	NP_060930	L	F	LF	benign

rs11538446	NP_663731	V	G	VG	probably damaging
rs11538455	XP_056681	K	M	KM	benign
rs11538456	XP_056681	F	I	FI	probably damaging
rs11538543	NP_003756	D	A	DA	probably damaging
rs11538552	NP_006591	T	A	TA	possibly damaging
rs11538565	NP_001856	A	S	AS	benign
rs11538581	XP_088142	P	A	PA	possibly damaging
rs11538582	XP_088142	S	R	SR	benign
rs11538584	XP_088142	P	T	PT	possibly damaging
rs11538585	XP_088142	L	V	LV	benign
rs11538586	XP_088142	G	R	GR	possibly damaging
rs11538610	NP_705903	V	L	VL	benign
rs11538610	NP_705902	V	L	VL	benign
rs11538611	XP_497117	Q	R	QR	possibly damaging
rs11538613	NP_001958	H	Y	HY	possibly damaging
rs11538614	NP_001958	A	V	AV	possibly damaging
rs11538616	NP_001958	Q	H	QH	benign
rs11538618	NP_001958	I	S	IS	probably damaging
rs11538619	NP_277039	V	G	VG	possibly damaging
rs11538626	NP_067023	R	Q	RQ	benign
rs11538627	NP_067023	E	D	ED	benign
rs11538635	NP_005683	N	I	NI	probably damaging
rs11538635	NP_009120	N	I	NI	probably damaging
rs11538639	NP_006176	R	C	RC	possibly damaging
rs11538640	NP_006176	L	P	LP	possibly damaging
rs11538642	NP_006176	R	L	RL	possibly damaging
rs11538643	NP_006176	R	C	RC	possibly damaging
rs11538653	NP_114143	R	W	RW	probably damaging
rs11538663	NP_003270	I	T	IT	probably damaging
rs11538671	NP_056525	C	F	CF	probably damaging
rs11538675	NP_056525	Q	E	QE	benign
rs11538677	NP_056493	I	V	IV	benign
rs11538692	NP_037379	P	S	PS	possibly damaging
rs11538700	NP_009214	M	R	MR	benign
rs11538710	NP_000229	I	N	IN	possibly damaging
rs11538710	NP_742053	I	N	IN	probably damaging
rs11538710	NP_742054	I	N	IN	probably damaging
rs11538722	NP_689620	R	L	RL	possibly damaging
rs11538726	NP_036437	P	L	PL	benign
rs11538740	NP_644804	V	L	VL	benign
rs11538740	NP_003479	V	L	VL	benign
rs11538753	NP_898902	G	D	GD	possibly damaging
rs11538755	NP_898902	P	T	PT	probably damaging
rs11538756	NP_898902	P	T	PT	probably damaging
rs11538758	NP_898902	P	Q	PQ	probably damaging
rs11538762	NP_898902	P	H	PH	probably damaging



rs11538764	NP_898902	R	S	RS	benign
rs11538766	NP_898902	D	V	DV	probably damaging
rs11538767	NP_898902	V	A	VA	possibly damaging
rs11538768	NP_898902	H	R	HR	probably damaging
rs11538769	NP_898902	G	S	GS	possibly damaging
rs11538771	NP_005608	G	C	GC	probably damaging
rs11538774	NP_005608	A	P	AP	possibly damaging
rs11538777	NP_005608	Q	H	QH	probably damaging
rs11538779	NP_005608	V	L	VL	possibly damaging
rs11538796	NP_067051	K	T	KT	benign
rs11538797	NP_067051	S	R	SR	benign
rs11538802	NP_005909	V	G	VG	probably damaging
rs11538808	NP_000425	A	V	AV	benign
rs11538809	NP_000425	R	C	RC	probably damaging
rs11538821	NP_057211	G	S	GS	benign
rs11538824	NP_057211	R	S	RS	benign
rs11538828	NP_057211	P	T	PT	possibly damaging
rs11538832	NP_542156	P	L	PL	possibly damaging
rs11538832	NP_542155	P	L	PL	probably damaging
rs11538835	NP_006868	S	L	SL	possibly damaging
rs11538845	NP_003743	R	S	RS	benign
rs11538848	NP_003743	K	R	KR	benign
rs11538849	NP_003743	D	H	DH	possibly damaging
rs11538850	NP_003743	A	V	AV	benign
rs11538872	NP_055787	G	D	GD	possibly damaging
rs11538875	NP_116035	P	H	PH	probably damaging
rs11538876	NP_116035	H	D	HD	possibly damaging
rs11538879	NP_055113	A	T	AT	benign
rs11538883	NP_036602	L	F	LF	benign
rs11538901	NP_619539	V	M	VM	benign
rs11538901	NP_004833	V	M	VM	benign
rs11538901	NP_057461	V	M	VM	benign
rs11538906	NP_000604	R	W	RW	probably damaging
rs11538920	NP_690852	S	F	SF	benign
rs11538929	NP_002505	R	H	RH	possibly damaging
rs11538931	NP_851313	K	R	KR	benign
rs11538931	NP_851823	K	R	KR	benign
rs11538931	NP_848026	K	R	KR	benign
rs11538939	NP_006271	T	I	TI	possibly damaging
rs11538941	NP_055852	W	G	WG	probably damaging
rs11538949	NP_000099	C	G	CG	possibly damaging
rs11538955	NP_071897	K	N	KN	benign
rs11538959	NP_786886	D	H	DH	probably damaging
rs11538960	NP_786886	R	H	RH	benign
rs11538968	NP_031381	D	N	DN	benign
rs11538975	NP_031381	K	E	KE	possibly damaging

rs11538980	NP_031381	T	A	TA	benign
rs11538992	XP_090844	L	H	LH	probably damaging
rs11538993	NP_055083	Y	C	YC	probably damaging
rs11538994	NP_055083	D	G	DG	probably damaging
rs11539050	XP_056681	A	V	AV	possibly damaging
rs11539051	XP_056681	S	P	SP	possibly damaging
rs11539052	XP_056681	A	T	AT	benign
rs11539055	XP_056681	V	A	VA	possibly damaging
rs11539060	XP_056681	E	G	EG	probably damaging
rs11539068	NP_002942	P	R	PR	probably damaging
rs11539069	NP_002942	G	V	GV	probably damaging
rs11539072	NP_478070	R	I	RI	possibly damaging
rs11539073	NP_478070	G	V	GV	benign
rs11539077	NP_056415	H	N	HN	probably damaging
rs11539084	NP_009108	I	T	IT	possibly damaging
rs11539086	NP_009108	E	Q	EQ	benign
rs11539087	NP_009108	P	H	PH	probably damaging
rs11539089	NP_009108	R	Q	RQ	benign
rs11539101	NP_001738	S	L	SL	possibly damaging
rs11539103	NP_001738	R	W	RW	probably damaging
rs11539111	NP_620153	I	M	IM	benign
rs11539121	XP_208072	R	H	RH	probably damaging
rs11539122	XP_208072	Y	C	YC	possibly damaging
rs11539127	XP_208072	R	L	RL	probably damaging
rs11539135	XP_497335	A	V	AV	possibly damaging
rs11539157	NP_071763	E	D	ED	benign
rs11539157	NP_660095	E	D	ED	benign
rs11539160	NP_001216	E	G	EG	possibly damaging
rs11539163	NP_009122	A	T	AT	benign
rs11539177	NP_003936	E	K	EK	benign
rs11539181	NP_060739	R	S	RS	possibly damaging
rs11539182	NP_000529	G	S	GS	benign
rs11539196	NP_003591	G	W	GW	probably damaging
rs11539196	NP_940835	G	W	GW	probably damaging
rs11539196	NP_940836	G	W	GW	probably damaging
rs11539196	NP_940837	G	W	GW	probably damaging
rs11539196	NP_940838	G	W	GW	probably damaging
rs11539196	NP_940839	G	W	GW	probably damaging
rs11539201	NP_003468	R	G	RG	possibly damaging
rs11539202	NP_003468	T	A	TA	benign
rs11539209	NP_116188	N	I	NI	probably damaging
rs11539210	NP_116188	Y	C	YC	possibly damaging
rs11539213	NP_057485	P	A	PA	possibly damaging
rs11539224	NP_056194	C	F	CF	probably damaging
rs11539229	NP_056194	S	T	ST	benign
rs11539235	NP_612510	T	A	TA	possibly damaging

rs11539241	NP_079509	R	H	RH	possibly damaging
rs11539244	NP_653165	F	L	FL	possibly damaging
rs11539254	NP_005186	Q	L	QL	benign
rs11539260	NP_859053	K	I	KI	benign
rs11539261	NP_065995	M	I	MI	benign
rs11539262	NP_065995	A	D	AD	benign
rs11539267	XP_371413	S	R	SR	benign
rs11539288	NP_003293	P	S	PS	possibly damaging
rs11539301	NP_057710	E	G	EG	possibly damaging
rs11539307	NP_061880	P	Q	PQ	probably damaging
rs11539309	NP_006678	R	M	RM	possibly damaging
rs11539313	NP_006378	P	T	PT	benign
rs11539315	NP_006378	A	T	AT	benign
rs11539319	NP_001080	P	H	PH	probably damaging
rs11539350	XP_371813	R	Q	RQ	possibly damaging
rs11539351	XP_371813	G	S	GS	benign
rs11539353	NP_004259	P	Q	PQ	possibly damaging
rs11539365	NP_077006	E	K	EK	benign
rs11539377	NP_057673	N	D	ND	benign
rs11539378	NP_003396	K	N	KN	benign
rs11539385	NP_714922	L	F	LF	benign
rs11539390	NP_003130	V	F	VF	benign
rs11539391	NP_067612	E	G	EG	possibly damaging
rs11539391	NP_001774	E	G	EG	possibly damaging
rs11539394	NP_115906	R	K	RK	benign
rs11539399	NP_001375	P	L	PL	probably damaging
rs11539406	NP_060705	D	G	DG	probably damaging
rs11539410	NP_005822	I	T	IT	benign
rs11539417	XP_372195	C	G	CG	probably damaging
rs11539425	NP_056034	A	G	AG	benign
rs11539429	NP_055228	E	Q	EQ	benign
rs11539431	NP_006744	R	L	RL	benign
rs11539433	NP_000880	H	Y	HY	benign
rs11539435	NP_536338	R	C	RC	possibly damaging
rs11539435	NP_536339	R	C	RC	probably damaging
rs11539435	NP_072097	R	C	RC	probably damaging
rs11539439	NP_057314	E	G	EG	possibly damaging
rs11539440	NP_057314	E	A	EA	possibly damaging
rs11539456	NP_004863	T	I	TI	possibly damaging
rs11539457	NP_004863	R	Q	RQ	benign
rs11539459	NP_004863	T	A	TA	benign
rs11539462	NP_036243	T	I	TI	probably damaging
rs11539467	NP_003935	S	F	SF	possibly damaging
rs11539472	NP_000405	A	S	AS	benign
rs11539495	NP_005549	T	I	TI	benign
rs11539519	NP_064619	E	K	EK	benign

rs11539520	NP_064619	A	S	AS	benign
rs11539521	NP_064619	S	P	SP	benign
rs11539522	NP_064619	L	P	LP	benign
rs11539529	NP_115872	P	S	PS	probably damaging
rs11539532	XP_290536	S	C	SC	possibly damaging
rs11539538	NP_056258	S	P	SP	benign
rs11539539	NP_064543	L	P	LP	possibly damaging
rs11539556	NP_944490	K	R	KR	benign
rs11539556	NP_003121	K	R	KR	benign
rs11539572	NP_056494	T	A	TA	benign
rs11539574	NP_056494	L	P	LP	possibly damaging
rs11539586	NP_002324	A	V	AV	benign
rs11539594	NP_004059	A	T	AT	benign
rs11539599	NP_004059	F	S	FS	probably damaging
rs11539600	NP_004059	I	T	IT	possibly damaging
rs11539603	NP_997626	T	S	TS	possibly damaging
rs11539608	NP_057366	S	P	SP	possibly damaging
rs11539609	NP_853554	A	P	AP	benign
rs11539609	NP_853553	A	P	AP	benign
rs11539626	NP_079033	R	L	RL	possibly damaging
rs11539628	NP_006364	A	V	AV	benign
rs11539635	NP_055322	L	I	LI	benign
rs11539635	NP_775738	L	I	LI	benign
rs11539639	NP_059344	S	P	SP	possibly damaging
rs11539639	NP_006331	S	P	SP	possibly damaging
rs11539639	NP_059345	S	P	SP	possibly damaging
rs11539644	NP_056307	P	L	PL	probably damaging
rs11539656	NP_004879	C	Y	CY	benign
rs11539658	NP_004879	I	F	IF	benign
rs11539662	NP_056219	A	S	AS	benign
rs11539679	NP_149082	P	L	PL	probably damaging
rs11539679	NP_148977	P	L	PL	probably damaging
rs11539687	NP_110446	G	V	GV	probably damaging
rs11539689	NP_056016	G	D	GD	benign
rs11539696	NP_068834	V	M	VM	benign
rs11539716	NP_054905	Q	K	QK	benign
rs11539722	NP_006462	M	T	MT	probably damaging
rs11539724	NP_006462	R	G	RG	probably damaging
rs11539726	NP_006462	M	V	MV	possibly damaging
rs11539737	NP_001237	L	P	LP	possibly damaging
rs11539737	NP_982293	L	P	LP	possibly damaging
rs11539739	NP_065138	Q	K	QK	benign
rs11539752	NP_004122	P	A	PA	benign
rs11539762	NP_620123	R	Q	RQ	benign
rs11539763	NP_056132	L	S	LS	possibly damaging
rs11539783	NP_006619	K	E	KE	benign

rs11539784	NP_006619	P	H	PH	probably damaging
rs11539804	XP_370737	C	G	CG	probably damaging
rs11539812	NP_110410	Y	F	YF	benign
rs11539826	NP_008930	P	L	PL	probably damaging
rs11539838	NP_149024	C	Y	CY	probably damaging
rs11539839	NP_076955	P	L	PL	benign
rs11539846	NP_002296	F	S	FS	probably damaging
rs11539850	NP_002296	L	P	LP	probably damaging
rs11539852	NP_002296	E	G	EG	possibly damaging
rs11539862	NP_000177	A	T	AT	benign
rs11539864	NP_036557	I	T	IT	possibly damaging
rs11539864	NP_689937	I	T	IT	possibly damaging
rs11539884	NP_150644	V	L	VL	benign
rs11539884	NP_000964	V	L	VL	benign
rs11539885	NP_150644	R	L	RL	probably damaging
rs11539885	NP_000964	R	L	RL	probably damaging
rs11539886	NP_150644	S	L	SL	probably damaging
rs11539886	NP_000964	S	L	SL	probably damaging
rs11539891	NP_150644	A	V	AV	benign
rs11539891	NP_000964	A	V	AV	benign
rs11539894	NP_150644	R	H	RH	benign
rs11539894	NP_000964	R	H	RH	benign
rs11539895	NP_150644	A	P	AP	benign
rs11539895	NP_000964	A	P	AP	benign
rs11539897	NP_150644	H	Y	HY	probably damaging
rs11539897	NP_000964	H	Y	HY	probably damaging
rs11539906	NP_150644	V	L	VL	benign
rs11539906	NP_000964	V	L	VL	benign
rs11539907	NP_150644	A	T	AT	possibly damaging
rs11539907	NP_000964	A	T	AT	possibly damaging
rs11539909	NP_036232	N	H	NH	benign
rs11539918	NP_003356	R	W	RW	probably damaging
rs11539937	NP_945320	Q	H	QH	benign
rs11539937	NP_945321	Q	H	QH	benign
rs11539937	NP_001121	Q	H	QH	benign
rs11539946	NP_001760	R	G	RG	probably damaging
rs11539948	NP_061931	P	S	PS	probably damaging
rs11539954	NP_002107	A	V	AV	benign
rs11539956	NP_005505	R	H	RH	probably damaging
rs11539957	NP_002107	R	W	RW	probably damaging
rs11539959	NP_002107	D	H	DH	probably damaging
rs11539960	NP_002107	Q	H	QH	benign
rs11539961	NP_002107	A	T	AT	benign
rs11539962	NP_005505	R	P	RP	benign
rs11539963	NP_002107	D	H	DH	benign
rs11539964	NP_002107	G	C	GC	probably damaging

rs11539969	NP_066953	P	H	PH	benign
rs11539972	NP_054901	I	V	IV	benign
rs11540005	NP_009034	R	C	RC	possibly damaging
rs11540006	NP_009034	M	R	MR	benign
rs11540007	NP_009034	G	S	GS	probably damaging
rs11540010	NP_009034	E	G	EG	probably damaging
rs11540014	NP_689704	H	Y	HY	possibly damaging
rs11540043	NP_003123	L	V	LV	benign
rs11540047	XP_496306	S	N	SN	benign
rs11540063	NP_005872	I	V	IV	benign
rs11540067	XP_291062	H	Y	HY	possibly damaging
rs11540070	NP_942093	R	G	RG	probably damaging
rs11540086	NP_689621	H	Y	HY	benign
rs11540092	NP_006532	P	L	PL	probably damaging
rs11540106	NP_150596	P	L	PL	probably damaging
rs11540107	NP_150596	D	G	DG	benign
rs11540114	NP_705935	E	Q	EQ	benign
rs11540121	NP_705935	V	L	VL	benign
rs11540147	XP_496826	G	S	GS	benign
rs11540150	NP_005971	E	D	ED	benign
rs11540152	NP_001062	F	L	FL	probably damaging
rs11540153	NP_001062	T	I	TI	probably damaging
rs11540154	NP_619520	A	V	AV	benign
rs11540154	NP_055781	A	V	AV	benign
rs11540154	NP_619519	A	V	AV	benign
rs11540166	NP_006089	S	L	SL	possibly damaging
rs11540167	NP_006089	I	V	IV	benign
rs11540172	NP_006089	D	Y	DY	probably damaging
rs11540177	NP_006089	I	T	IT	benign
rs11540181	NP_006089	A	G	AG	possibly damaging
rs11540186	NP_006089	V	E	VE	probably damaging
rs11540189	NP_006089	G	R	GR	probably damaging
rs11540191	NP_006089	T	A	TA	benign
rs11540192	NP_006089	F	L	FL	probably damaging
rs11540195	NP_006089	C	Y	CY	probably damaging
rs11540199	NP_006089	T	A	TA	benign
rs11540205	NP_114412	R	Q	RQ	possibly damaging
rs11540206	NP_110381	G	C	GC	probably damaging
rs11540212	NP_110381	E	G	EG	probably damaging
rs11540212	NP_954630	E	G	EG	probably damaging
rs11540221	NP_653185	Q	L	QL	possibly damaging
rs11540255	NP_001013	E	G	EG	probably damaging
rs11540273	XP_059972	R	C	RC	probably damaging
rs11540279	NP_060720	P	R	PR	possibly damaging
rs11540304	NP_003137	E	Q	EQ	benign
rs11540332	NP_116186	A	V	AV	benign

rs11540337	NP_073610	S	P	SP	benign
rs11540348	NP_203698	N	D	ND	benign
rs11540348	NP_001777	N	D	ND	benign
rs11540349	NP_056480	P	S	PS	benign
rs11540352	NP_056480	H	R	HR	probably damaging
rs11540389	NP_057388	I	N	IN	probably damaging
rs11540394	NP_057388	P	L	PL	probably damaging
rs11540397	NP_057388	M	I	MI	benign
rs11540428	NP_000143	G	R	GR	possibly damaging
rs11540429	NP_000143	G	E	GE	benign
rs11540436	NP_113651	P	S	PS	probably damaging
rs11540444	NP_003898	A	S	AS	benign
rs11540462	NP_004901	E	D	ED	benign
rs11540463	NP_000982	R	C	RC	probably damaging
rs11540468	NP_000982	P	R	PR	possibly damaging
rs11540473	NP_000982	G	S	GS	possibly damaging
rs11540474	NP_115709	E	K	EK	benign
rs11540475	NP_115709	R	G	RG	probably damaging
rs11540480	NP_004732	P	R	PR	probably damaging
rs11540481	NP_004732	K	E	KE	benign
rs11540483	NP_006015	L	I	LI	benign
rs11540484	NP_006015	P	T	PT	possibly damaging
rs11540496	NP_006750	W	L	WL	probably damaging
rs11540504	NP_056298	M	I	MI	possibly damaging
rs11540507	NP_002244	P	A	PA	probably damaging
rs11540513	NP_003360	A	T	AT	benign
rs11540542	NP_064584	P	T	PT	benign
rs11540543	NP_064584	P	T	PT	possibly damaging
rs11540544	NP_057731	G	R	GR	probably damaging
rs11540558	NP_057494	S	P	SP	possibly damaging
rs11540596	NP_005380	H	N	HN	probably damaging
rs11540602	NP_005380	A	S	AS	benign
rs11540603	NP_005380	A	V	AV	possibly damaging
rs11540607	NP_005635	F	S	FS	probably damaging
rs11540622	NP_071903	R	S	RS	probably damaging
rs11540636	NP_000839	F	S	FS	probably damaging
rs11540637	NP_006286	A	V	AV	benign
rs11540644	XP_208300	Q	H	QH	benign
rs11540648	NP_057336	P	R	PR	probably damaging
rs11540652	NP_000537	R	Q	RQ	probably damaging
rs11540654	NP_000537	R	L	RL	probably damaging
rs11540664	NP_114155	A	T	AT	benign
rs11540674	NP_000932	E	K	EK	benign
rs11540688	NP_002204	L	F	LF	possibly damaging
rs11540700	NP_006136	T	R	TR	benign
rs11540711	NP_055859	G	V	GV	probably damaging

rs11540715	NP_057251	F	S	FS	possibly damaging
rs11540720	NP_001058	A	S	AS	benign
rs11540721	NP_073598	K	Q	KQ	benign
rs11540734	NP_110438	A	V	AV	benign
rs11540746	NP_003453	A	V	AV	benign
rs11540755	NP_060383	R	H	RH	possibly damaging
rs11540801	NP_116120	A	S	AS	benign
rs11540803	NP_775656	L	V	LV	benign
rs11540803	NP_002596	L	V	LV	benign
rs11540811	NP_004981	D	Y	DY	probably damaging
rs11540819	NP_877416	P	Q	PQ	possibly damaging
rs11540819	NP_002484	P	Q	PQ	possibly damaging
rs11540826	NP_002256	A	V	AV	benign
rs11540829	NP_000960	A	V	AV	benign
rs11540832	NP_000960	Y	C	YC	possibly damaging
rs11540836	NP_000960	F	L	FL	probably damaging
rs11540843	NP_000960	D	G	DG	benign
rs11540857	NP_009131	V	A	VA	benign
rs11540857	NP_658913	V	A	VA	benign
rs11540857	NP_006729	V	A	VA	benign
rs11540864	NP_057660	H	R	HR	probably damaging
rs11540878	NP_062559	L	I	LI	benign
rs11540890	NP_003266	E	K	EK	benign
rs11540895	NP_115725	Y	H	YH	possibly damaging
rs11540898	NP_001904	I	V	IV	benign
rs11540898	NP_852477	I	V	IV	benign
rs11540906	NP_899195	G	C	GC	probably damaging
rs11540906	NP_109598	G	C	GC	probably damaging
rs11540925	NP_062565	D	Y	DY	probably damaging
rs11540944	NP_000692	D	H	DH	benign
rs11540945	NP_000692	L	R	LR	possibly damaging
rs11540949	NP_000692	R	L	RL	benign
rs11540967	NP_000111	A	T	AT	benign
rs11540972	XP_044461	V	I	VI	benign
rs11540974	NP_066977	P	A	PA	benign
rs11540974	NP_478059	P	A	PA	benign
rs11540980	NP_060515	A	T	AT	benign
rs11540981	NP_060934	A	T	AT	benign
rs11540993	NP_057185	H	Y	HY	probably damaging
rs11541000	NP_055976	D	G	DG	possibly damaging
rs11541002	NP_055976	L	V	LV	benign
rs11541003	NP_443076	R	C	RC	probably damaging
rs11541009	NP_004606	P	H	PH	probably damaging
rs11541016	NP_002410	P	L	PL	probably damaging
rs11541017	NP_115990	A	V	AV	benign
rs11541044	NP_631946	Y	S	YS	probably damaging



rs11541051	NP_002222	E	D	ED	benign
rs11541055	NP_055296	G	E	GE	probably damaging
rs11541067	NP_004740	A	V	AV	benign
rs11541067	NP_954573	A	V	AV	benign
rs11541068	NP_004740	P	S	PS	possibly damaging
rs11541070	NP_004740	S	F	SF	possibly damaging
rs11541075	NP_002755	V	A	VA	possibly damaging
rs11541090	NP_004102	P	L	PL	probably damaging
rs11541102	NP_006422	V	F	VF	possibly damaging
rs11541103	NP_006422	N	S	NS	benign
rs11541104	NP_006422	G	R	GR	benign
rs11541118	NP_056457	R	C	RC	probably damaging
rs11541129	NP_064544	S	N	SN	benign
rs11541139	NP_060315	D	E	DE	benign
rs11541148	NP_005866	M	V	MV	probably damaging
rs11541154	XP_375812	K	E	KE	benign
rs11541159	NP_059132	M	V	MV	benign
rs11541167	NP_478067	P	H	PH	possibly damaging
rs11541179	NP_114428	R	C	RC	possibly damaging
rs11541183	NP_004955	F	S	FS	probably damaging
rs11541185	NP_004955	H	N	HN	probably damaging
rs11541187	NP_003648	Q	L	QL	possibly damaging
rs11541195	NP_067065	P	T	PT	probably damaging
rs11541197	NP_067065	A	T	AT	benign
rs11541200	NP_954637	W	R	WR	probably damaging
rs11541208	NP_001704	P	Q	PQ	probably damaging
rs11541209	NP_001166	Q	H	QH	possibly damaging
rs11541211	NP_001166	S	I	SI	benign
rs11541226	NP_689552	R	Q	RQ	benign
rs11541234	NP_002991	T	I	TI	benign
rs11541240	NP_543012	S	C	SC	benign
rs11541242	NP_001136	L	P	LP	probably damaging
rs11541250	NP_000849	H	Q	HQ	probably damaging
rs11541255	XP_497892	D	G	DG	possibly damaging
rs11541257	NP_056352	P	H	PH	benign
rs11541263	NP_001447	S	T	ST	benign
rs11541264	NP_001447	Q	R	QR	benign
rs11541270	NP_874368	P	R	PR	possibly damaging
rs11541270	NP_874369	P	R	PR	possibly damaging
rs11541270	NP_006379	P	R	PR	possibly damaging
rs11541271	NP_874368	P	T	PT	benign
rs11541271	NP_874369	P	T	PT	probably damaging
rs11541271	NP_006379	P	T	PT	probably damaging
rs11541280	NP_005666	W	R	WR	benign
rs11541284	NP_150282	A	G	AG	benign
rs11541285	NP_150282	Q	K	QK	possibly damaging

rs11541285	NP_005666	Q	K	QK	possibly damaging
rs11541286	NP_659419	K	R	KR	benign
rs11541325	NP_076436	R	Q	RQ	benign
rs11541350	NP_004031	V	F	VF	probably damaging
rs11541366	NP_006393	A	V	AV	benign
rs11541367	NP_006393	D	Y	DY	probably damaging
rs11541402	NP_004830	N	K	NK	benign
rs11541402	NP_955363	N	K	NK	benign
rs11541402	NP_955364	N	K	NK	benign
rs11541403	NP_116164	L	Q	LQ	possibly damaging
rs11541412	NP_031378	L	P	LP	probably damaging
rs11541424	NP_036313	H	Y	HY	possibly damaging
rs11541430	NP_004309	S	T	ST	benign
rs11541430	NP_115855	S	T	ST	benign
rs11541434	NP_015565	Q	R	QR	benign
rs11541435	NP_777358	E	G	EG	probably damaging
rs11541435	NP_004126	E	G	EG	probably damaging
rs11541439	NP_612452	G	C	GC	probably damaging
rs11541443	NP_001176	R	G	RG	possibly damaging
rs11541444	NP_036220	P	H	PH	probably damaging
rs11541446	NP_002854	A	T	AT	probably damaging
rs11541459	NP_057213	S	W	SW	possibly damaging
rs11541464	NP_009204	G	S	GS	possibly damaging
rs11541474	NP_001907	H	R	HR	probably damaging
rs11541492	NP_071413	G	S	GS	benign
rs11541500	NP_003096	A	E	AE	benign
rs11541503	NP_060687	A	V	AV	benign
rs11541504	NP_060687	F	L	FL	possibly damaging
rs11541509	NP_219479	Q	H	QH	possibly damaging
rs11541519	NP_057141	L	P	LP	benign
rs11541531	NP_006730	R	G	RG	possibly damaging
rs11541533	NP_006730	Q	R	QR	possibly damaging
rs11541539	NP_077001	G	R	GR	benign
rs11541541	NP_001701	K	R	KR	benign
rs11541551	NP_060300	G	V	GV	probably damaging
rs11541556	NP_001649	M	I	MI	benign
rs11541562	NP_001649	L	P	LP	probably damaging
rs11541563	NP_002721	G	V	GV	probably damaging
rs11541563	NP_997401	G	V	GV	probably damaging
rs11541568	NP_000282	M	I	MI	benign
rs11541572	NP_000282	V	A	VA	benign
rs11541574	NP_000282	S	C	SC	benign
rs11541588	NP_067053	S	C	SC	benign
rs11541588	NP_733751	S	C	SC	benign
rs11541591	NP_002056	I	T	IT	benign
rs11541598	NP_060476	G	W	GW	possibly damaging

rs11541604	NP_055331	S	I	SI	benign
rs11541607	NP_004167	L	F	LF	benign
rs11541608	NP_004167	S	F	SF	possibly damaging
rs11541613	NP_001001	Q	H	QH	benign
rs11541614	NP_001001	P	L	PL	probably damaging
rs11541618	NP_001001	P	S	PS	benign
rs11541628	NP_057295	A	S	AS	benign
rs11541628	NP_055748	A	S	AS	benign
rs11541635	NP_004636	K	E	KE	benign
rs11541653	NP_060827	R	H	RH	benign
rs11541654	NP_002305	L	I	LI	benign
rs11541656	NP_002305	R	Q	RQ	benign
rs11541658	NP_002817	H	R	HR	benign
rs11541660	NP_061908	N	I	NI	possibly damaging
rs11541661	NP_872607	F	L	FL	probably damaging
rs11541661	NP_003332	F	L	FL	probably damaging
rs11541666	NP_006318	E	Q	EQ	benign
rs11541675	XP_032996	E	V	EV	possibly damaging
rs11541677	XP_032996	L	V	LV	benign
rs11541683	NP_116784	A	S	AS	benign
rs11541747	NP_055427	Y	H	YH	possibly damaging
rs11541753	NP_998811	P	L	PL	benign
rs11541762	NP_002803	R	H	RH	benign
rs11541767	NP_008955	M	I	MI	benign
rs11541784	NP_000362	S	P	SP	possibly damaging
rs11541785	NP_000362	P	L	PL	probably damaging
rs11541790	NP_000362	P	S	PS	probably damaging
rs11541793	NP_000362	P	H	PH	benign
rs11541795	NP_000362	A	V	AV	possibly damaging
rs11541798	NP_000362	P	H	PH	probably damaging
rs11541799	NP_000362	G	R	GR	probably damaging
rs11541800	NP_000362	S	G	SG	possibly damaging
rs11541812	NP_000347	G	R	GR	possibly damaging
rs11541813	NP_776216	P	L	PL	probably damaging
rs11541813	NP_006776	P	L	PL	probably damaging
rs11541814	NP_201573	D	Y	DY	probably damaging
rs11541814	NP_005920	D	Y	DY	probably damaging
rs11541815	NP_201573	A	V	AV	benign
rs11541815	NP_005920	A	V	AV	benign
rs11541820	NP_078820	S	G	SG	benign
rs11541828	NP_116329	L	V	LV	benign
rs11541833	NP_002989	A	P	AP	benign
rs11541849	NP_057321	E	G	EG	possibly damaging
rs11541852	NP_004517	H	Y	HY	probably damaging
rs11541856	XP_497005	R	L	RL	probably damaging
rs11541859	NP_000240	E	Q	EQ	benign

rs11541874	NP_057077	R	Q	RQ	benign
rs11541876	NP_055118	D	H	DH	possibly damaging
rs11541893	XP_497318	K	R	KR	benign
rs11541898	XP_497318	A	T	AT	benign
rs11541913	NP_005118	G	C	GC	probably damaging
rs11541926	NP_004037	K	R	KR	benign
rs11541928	NP_004037	F	L	FL	benign
rs11541931	NP_004037	I	F	IF	probably damaging
rs11541932	NP_004037	L	F	LF	benign
rs11541933	NP_004037	S	F	SF	benign
rs11541939	NP_004037	L	I	LI	benign
rs11541942	NP_000223	R	S	RS	possibly damaging
rs11541943	NP_000223	T	A	TA	benign
rs11541944	NP_000223	E	G	EG	possibly damaging
rs11541952	NP_085053	K	R	KR	benign
rs11541956	NP_055410	P	L	PL	probably damaging
rs11541959	NP_000365	K	E	KE	possibly damaging
rs11541962	NP_000365	P	L	PL	probably damaging
rs11541963	NP_000365	R	T	RT	possibly damaging
rs11541966	NP_000365	W	R	WR	benign
rs11541968	NP_005267	A	S	AS	benign
rs11541973	NP_005304	S	F	SF	possibly damaging
rs11541983	NP_116219	E	K	EK	benign
rs11541984	NP_116219	A	P	AP	benign
rs11541985	NP_116219	P	S	PS	benign
rs11541993	NP_057230	P	H	PH	benign
rs11542001	NP_004521	F	L	FL	possibly damaging
rs11542009	XP_371614	T	I	TI	possibly damaging
rs11542012	NP_002957	A	V	AV	benign
rs11542027	NP_000032	S	F	SF	benign
rs11542029	NP_000032	R	C	RC	probably damaging
rs11542030	NP_000032	Q	R	QR	benign
rs11542032	NP_000032	E	K	EK	possibly damaging
rs11542034	NP_000032	E	G	EG	probably damaging
rs11542035	NP_000032	R	H	RH	possibly damaging
rs11542040	NP_000032	P	T	PT	probably damaging
rs11542041	NP_000032	R	S	RS	probably damaging
rs11542044	NP_848927	S	P	SP	benign
rs11542062	NP_003095	F	S	FS	probably damaging
rs11542065	NP_000228	H	Q	HQ	probably damaging
rs11542066	NP_954657	Q	H	QH	possibly damaging
rs11542066	NP_000215	Q	H	QH	possibly damaging
rs11542069	NP_000176	L	V	LV	benign
rs11542075	NP_002958	D	H	DH	benign
rs11542093	NP_006096	Q	H	QH	benign
rs11542104	NP_775956	V	A	VA	benign

rs11542112	NP_116093	W	L	WL	probably damaging
rs11542113	NP_116093	T	N	TN	benign
rs11542118	NP_116093	A	V	AV	probably damaging
rs11542119	NP_116093	P	L	PL	possibly damaging
rs11542120	NP_006000	Q	H	QH	benign
rs11542120	NP_116093	Q	H	QH	benign
rs11542121	NP_116093	F	S	FS	probably damaging
rs11542126	NP_068602	E	G	EG	possibly damaging
rs11542127	NP_068602	W	S	WS	probably damaging
rs11542135	NP_077022	K	Q	KQ	benign
rs11542139	NP_004707	A	T	AT	benign
rs11542141	NP_789839	L	V	LV	benign
rs11542141	NP_005780	L	V	LV	benign
rs11542146	NP_004379	Q	L	QL	probably damaging
rs11542154	NP_653168	P	S	PS	benign
rs11542162	NP_689947	T	A	TA	benign
rs11542164	NP_689947	P	H	PH	probably damaging
rs11542186	NP_570896	D	Y	DY	probably damaging
rs11542186	NP_006741	D	Y	DY	probably damaging
rs11542215	NP_005070	K	R	KR	benign
rs11542218	NP_006398	L	V	LV	benign
rs11542229	NP_001211	E	D	ED	benign
rs11542229	NP_742075	E	D	ED	benign
rs11542229	NP_742076	E	D	ED	benign
rs11542229	NP_742077	E	D	ED	benign
rs11542229	NP_742078	E	D	ED	benign
rs11542229	NP_742079	E	D	ED	benign
rs11542229	NP_742080	E	D	ED	benign
rs11542229	NP_742081	E	D	ED	benign
rs11542258	NP_003312	L	V	LV	benign
rs11542259	NP_003312	M	I	MI	probably damaging
rs11542261	NP_003312	R	C	RC	probably damaging
rs11542276	NP_009178	S	F	SF	benign
rs11542276	NP_542117	S	F	SF	benign
rs11542279	NP_579917	L	R	LR	possibly damaging
rs11542279	NP_579922	L	R	LR	possibly damaging
rs11542279	NP_579919	L	R	LR	possibly damaging
rs11542280	NP_579917	N	S	NS	benign
rs11542280	NP_579922	N	S	NS	benign
rs11542288	NP_112486	P	T	PT	probably damaging
rs11542307	NP_006263	K	N	KN	benign
rs11542309	NP_006263	F	L	FL	probably damaging
rs11542317	NP_002158	S	A	SA	benign
rs11542322	NP_057347	C	R	CR	probably damaging
rs11542339	NP_872425	A	V	AV	benign
rs11542345	NP_008854	F	L	FL	probably damaging

rs11542354	NP_000090	G	A	GA	benign
rs11542355	NP_000090	R	G	RG	probably damaging
rs11542360	NP_000090	R	H	RH	possibly damaging
rs11542364	NP_000090	R	S	RS	probably damaging
rs11542366	XP_209616	E	G	EG	benign
rs11542367	NP_005774	H	R	HR	benign
rs11542368	NP_005774	F	V	FV	probably damaging
rs11542369	NP_005774	L	Q	LQ	possibly damaging
rs11542371	NP_005774	Q	R	QR	benign
rs11542374	NP_874365	G	R	GR	possibly damaging
rs11542374	NP_056171	G	R	GR	probably damaging
rs11542375	NP_037520	P	L	PL	probably damaging
rs11542381	NP_001409	A	T	AT	benign
rs11542398	NP_000916	Q	K	QK	possibly damaging
rs11542411	NP_219484	E	K	EK	benign
rs11542413	NP_219484	V	I	VI	benign
rs11542417	NP_219484	Y	C	YC	probably damaging
rs11542418	NP_219484	Y	F	YF	benign
rs11542419	NP_066918	F	L	FL	benign
rs11542435	XP_380175	Q	R	QR	benign
rs11542435	NP_060504	Q	R	QR	benign
rs11542439	NP_037468	E	G	EG	probably damaging
rs11542492	NP_003109	T	I	TI	possibly damaging
rs11542503	NP_003171	R	Q	RQ	benign
rs11542510	NP_110436	T	M	TM	benign
rs11542514	NP_000978	L	P	LP	probably damaging
rs11542516	NP_000978	R	L	RL	benign
rs11542517	XP_496746	D	Y	DY	probably damaging
rs11542518	XP_496746	K	N	KN	possibly damaging
rs11542529	NP_036457	F	L	FL	probably damaging
rs11542539	NP_002125	T	A	TA	possibly damaging
rs11542540	NP_002125	K	N	KN	possibly damaging
rs11542546	NP_073210	K	E	KE	benign
rs11542558	NP_003014	R	G	RG	probably damaging
rs11542565	NP_003002	L	F	LF	benign
rs11542579	NP_057367	E	D	ED	benign
rs11542580	NP_003178	Q	H	QH	possibly damaging
rs11542581	NP_003178	R	Q	RQ	benign
rs11542584	NP_115758	D	H	DH	benign
rs11542596	NP_056201	V	A	VA	benign
rs11542602	NP_060707	M	V	MV	possibly damaging
rs11542606	NP_003409	E	A	EA	possibly damaging
rs11542607	NP_003409	A	V	AV	benign
rs11542610	NP_003409	E	V	EV	probably damaging
rs11542613	NP_751918	D	Y	DY	benign
rs11542617	NP_004764	D	G	DG	benign

rs11542623	NP_006360	V	I	VI	benign
rs11542624	NP_006360	L	F	LF	benign
rs11542625	NP_002756	A	G	AG	possibly damaging
rs11542629	XP_378195	G	A	GA	benign
rs11542630	NP_000528	P	H	PH	probably damaging
rs11542632	NP_001391	A	T	AT	benign
rs11542635	NP_003842	Q	R	QR	benign
rs11542643	NP_001677	K	N	KN	benign
rs11542644	NP_001677	G	V	GV	probably damaging
rs11542645	NP_001677	P	S	PS	benign
rs11542646	NP_001677	S	L	SL	benign
rs11542649	NP_001677	I	V	IV	benign
rs11542650	NP_004861	M	R	MR	possibly damaging
rs11542652	NP_054768	P	R	PR	possibly damaging
rs11542654	NP_054768	A	V	AV	benign
rs11542667	NP_006283	L	F	LF	benign
rs11542672	NP_114415	L	P	LP	possibly damaging
rs11542684	NP_660206	S	N	SN	benign
rs11542685	NP_660206	W	C	WC	probably damaging
rs11542686	NP_660206	K	R	KR	benign
rs11542697	NP_060582	L	V	LV	benign
rs11542701	NP_443134	Q	H	QH	benign
rs11542705	NP_006133	M	I	MI	benign
rs11542708	NP_620156	V	A	VA	benign
rs11542709	NP_620156	F	L	FL	possibly damaging
rs11542732	NP_006007	S	P	SP	benign
rs11542738	NP_005338	D	Y	DY	probably damaging
rs11542739	NP_005338	V	E	VE	probably damaging
rs11542741	NP_777280	Q	H	QH	possibly damaging
rs11542741	NP_008830	Q	H	QH	possibly damaging
rs11542768	NP_758859	C	Y	CY	probably damaging
rs11542768	NP_071900	C	Y	CY	probably damaging
rs11542782	NP_002618	G	R	GR	probably damaging
rs11542786	NP_055455	S	N	SN	benign
rs11542791	NP_115765	R	Q	RQ	possibly damaging
rs11542792	NP_115765	S	G	SG	possibly damaging
rs11542793	NP_115765	P	R	PR	probably damaging
rs11542801	XP_293514	R	P	RP	probably damaging
rs11542806	NP_004742	A	S	AS	benign
rs11542810	NP_795343	V	F	VF	possibly damaging
rs11542810	NP_055166	V	F	VF	possibly damaging
rs11542811	NP_795343	R	Q	RQ	benign
rs11542811	NP_055166	R	Q	RQ	benign
rs11542828	XP_372448	G	C	GC	probably damaging
rs11542836	NP_694546	A	V	AV	benign
rs11542836	NP_006494	A	V	AV	benign

rs11542842	NP_694546	F	L	FL	benign
rs11542842	NP_006494	F	L	FL	benign
rs11542856	NP_000794	K	E	KE	possibly damaging
rs11542862	NP_476500	N	S	NS	benign
rs11542868	NP_075391	E	G	EG	possibly damaging
rs11542876	NP_001771	F	L	FL	possibly damaging
rs11542891	NP_065177	P	R	PR	probably damaging
rs11542892	NP_065177	P	R	PR	probably damaging
rs11542905	NP_778239	G	S	GS	benign
rs11542905	NP_778243	G	S	GS	benign
rs11542907	NP_008909	C	S	CS	probably damaging
rs11542909	NP_008909	D	N	DN	benign
rs11542927	NP_055528	R	W	RW	probably damaging
rs11542929	NP_055528	L	I	LI	benign
rs11542938	NP_859056	V	A	VA	benign
rs11542940	NP_006039	P	T	PT	probably damaging
rs11542951	NP_076943	A	P	AP	benign
rs11542952	NP_068747	A	V	AV	benign
rs11542976	NP_550440	S	C	SC	benign
rs11542976	NP_550438	S	C	SC	benign
rs11542980	NP_060347	D	Y	DY	probably damaging
rs11542982	NP_061902	P	Q	PQ	probably damaging
rs11542982	NP_112601	P	Q	PQ	probably damaging
rs11542995	NP_116288	S	R	SR	benign
rs11542995	NP_996889	S	R	SR	possibly damaging
rs11543008	NP_003148	N	D	ND	benign
rs11543017	NP_000524	P	T	PT	probably damaging
rs11543017	NP_955772	P	T	PT	probably damaging
rs11543022	NP_000524	P	R	PR	probably damaging
rs11543022	NP_955772	P	R	PR	probably damaging
rs11543023	NP_000524	V	I	VI	benign
rs11543023	NP_955772	V	I	VI	benign
rs11543024	NP_000524	E	D	ED	benign
rs11543024	NP_955772	E	D	ED	possibly damaging
rs11543029	NP_004238	D	G	DG	benign
rs11543031	XP_374983	S	I	SI	benign
rs11543032	NP_061943	G	V	GV	benign
rs11543043	NP_037460	M	I	MI	possibly damaging
rs11543046	NP_808907	F	C	FC	probably damaging
rs11543046	NP_002697	F	C	FC	probably damaging
rs11543047	NP_057174	F	L	FL	possibly damaging
rs11543050	NP_057174	R	S	RS	possibly damaging
rs11543061	NP_055902	L	M	LM	benign
rs11543067	NP_055151	V	A	VA	possibly damaging
rs11543075	NP_002943	C	R	CR	probably damaging
rs11543132	NP_005587	G	A	GA	possibly damaging



rs11543166	NP_004210	A	V	AV	benign
rs11543167	NP_066280	P	S	PS	probably damaging
rs11543168	NP_006598	S	G	SG	benign
rs11543180	NP_006677	R	G	RG	possibly damaging
rs11543181	NP_006677	A	T	AT	benign
rs11543192	NP_000349	I	V	IV	benign
rs11543204	XP_496443	F	S	FS	possibly damaging
rs11543204	NP_055580	F	S	FS	possibly damaging
rs11543211	NP_002796	R	W	RW	probably damaging
rs11543215	NP_149438	D	N	DN	benign
rs11543215	NP_904319	D	N	DN	benign
rs11543215	NP_904320	D	N	DN	benign
rs11543225	XP_035572	R	G	RG	probably damaging
rs11543239	NP_690908	P	L	PL	benign
rs11543240	NP_690908	F	L	FL	possibly damaging
rs11543242	NP_690908	E	Q	EQ	benign
rs11543243	NP_690908	K	M	KM	possibly damaging
rs11543244	NP_690908	V	I	VI	benign
rs11543246	NP_690908	D	Y	DY	probably damaging
rs11543249	NP_055488	N	K	NK	possibly damaging
rs11543250	NP_055488	S	I	SI	possibly damaging
rs11543258	NP_653177	P	H	PH	probably damaging
rs11543261	NP_612366	R	S	RS	benign
rs11543264	NP_054770	A	V	AV	benign
rs11543266	NP_054770	C	R	CR	possibly damaging
rs11543303	NP_076983	S	F	SF	possibly damaging
rs11543322	NP_542165	V	L	VL	benign
rs11543334	NP_001007	K	E	KE	possibly damaging
rs11543338	XP_495885	A	P	AP	possibly damaging
rs11543347	NP_003118	A	V	AV	benign
rs11543349	NP_031372	G	R	GR	possibly damaging
rs11543350	NP_031372	S	T	ST	benign
rs11543352	NP_031372	A	T	AT	benign
rs11543359	NP_056937	L	F	LF	benign
rs11543582	NP_116249	A	G	AG	benign
rs11543848	NP_958441	R	K	RK	benign
rs11543848	NP_005219	R	K	RK	benign
rs11543848	NP_958439	R	K	RK	possibly damaging
rs11543905	NP_004163	S	R	SR	benign
rs11543934	NP_004422	P	T	PT	probably damaging
rs11543939	NP_644810	S	I	SI	possibly damaging
rs11543944	NP_003394	Y	C	YC	benign
rs11543947	NP_002788	R	C	RC	possibly damaging
rs11543966	NP_000766	P	H	PH	probably damaging
rs11543976	NP_003741	G	E	GE	probably damaging
rs11543985	NP_037497	L	I	LI	benign

rs11543992	NP_004896	A	V	AV	benign
rs11544004	NP_065727	S	Y	SY	possibly damaging
rs11544011	NP_997646	D	Y	DY	probably damaging
rs11544015	NP_001004	R	S	RS	benign
rs11544021	NP_001004	H	L	HL	probably damaging
rs11544022	NP_001004	Q	R	QR	possibly damaging
rs11544023	NP_001004	S	F	SF	benign
rs11544035	NP_001004	F	S	FS	probably damaging
rs11544039	NP_064553	A	V	AV	benign
rs11544041	NP_056535	S	G	SG	benign
rs11544048	NP_059998	N	H	NH	benign
rs11544054	NP_003737	M	L	ML	possibly damaging
rs11544061	NP_003737	L	P	LP	probably damaging
rs11544064	NP_853551	K	E	KE	benign
rs11544066	NP_599030	N	S	NS	benign
rs11544074	NP_001563	R	C	RC	possibly damaging
rs11544074	NP_004020	R	C	RC	probably damaging
rs11544074	NP_004021	R	C	RC	probably damaging
rs11544074	NP_004022	R	C	RC	probably damaging
rs11544078	NP_056050	T	P	TP	benign
rs11544092	NP_005783	T	I	TI	benign
rs11544133	NP_056250	M	V	MV	benign
rs11544133	NP_904355	M	V	MV	benign
rs11544135	NP_612496	L	M	LM	benign
rs11544137	NP_003959	M	V	MV	benign
rs11544137	NP_937838	M	V	MV	benign
rs11544137	NP_937840	M	V	MV	benign
rs11544140	NP_005197	H	R	HR	probably damaging
rs11544140	NP_058431	H	R	HR	probably damaging
rs11544145	NP_006404	G	D	GD	possibly damaging
rs11544146	NP_722540	I	R	IR	benign
rs11544146	NP_002608	I	R	IR	benign
rs11544160	XP_496823	E	K	EK	benign
rs11544161	XP_496823	F	L	FL	benign
rs11544163	NP_647539	R	S	RS	probably damaging
rs11544163	NP_003395	R	S	RS	probably damaging
rs11544169	NP_783163	N	S	NS	benign
rs11544173	NP_004282	Q	K	QK	benign
rs11544178	NP_031389	P	L	PL	probably damaging
rs11544180	NP_031389	R	C	RC	probably damaging
rs11544184	NP_031389	E	D	ED	benign
rs11544185	NP_031389	G	V	GV	probably damaging
rs11544189	NP_057319	K	E	KE	benign
rs11544191	NP_057319	T	A	TA	benign
rs11544196	NP_001775	T	I	TI	possibly damaging
rs11544196	NP_510966	T	I	TI	possibly damaging

rs11544205	NP_597994	A	S	AS	benign
rs11544205	NP_002866	A	S	AS	benign
rs11544207	NP_006511	Q	E	QE	benign
rs11544224	NP_009038	Q	K	QK	possibly damaging
rs11544242	NP_872617	D	H	DH	benign
rs11544242	NP_006218	D	H	DH	benign
rs11544245	NP_872617	E	V	EV	benign
rs11544245	NP_006218	E	V	EV	possibly damaging
rs11544246	NP_872617	H	R	HR	probably damaging
rs11544246	NP_006218	H	R	HR	probably damaging
rs11544257	NP_003363	P	T	PT	probably damaging
rs11544260	NP_003363	P	H	PH	probably damaging
rs11544263	NP_003363	D	V	DV	possibly damaging
rs11544267	NP_065157	P	Q	PQ	benign
rs11544268	NP_065157	Y	C	YC	probably damaging
rs11544274	NP_000980	V	F	VF	benign
rs11544279	NP_006699	P	H	PH	probably damaging
rs11544283	NP_006699	Y	C	YC	probably damaging
rs11544298	NP_542131	P	L	PL	probably damaging
rs11544304	NP_000657	D	E	DE	benign
rs11544326	NP_003671	M	I	MI	probably damaging
rs11544327	NP_003671	K	T	KT	possibly damaging
rs11544331	NP_001496	P	L	PL	benign
rs11544340	NP_061135	A	D	AD	benign
rs11544344	NP_932342	G	D	GD	possibly damaging
rs11544346	NP_001503	V	A	VA	benign
rs11544355	NP_064511	R	C	RC	possibly damaging
rs11544356	NP_064511	P	L	PL	probably damaging
rs11544361	NP_060612	F	C	FC	probably damaging
rs11544371	NP_277050	N	S	NS	benign
rs11544372	NP_277050	Q	H	QH	benign
rs11544379	NP_065801	V	F	VF	possibly damaging
rs11544382	NP_065801	M	T	MT	probably damaging
rs11544384	NP_060924	S	A	SA	benign
rs11544406	NP_005825	P	H	PH	possibly damaging
rs11544417	NP_987091	S	F	SF	possibly damaging
rs11544419	NP_987091	P	L	PL	probably damaging
rs11544422	NP_060335	R	Q	RQ	benign
rs11544428	NP_003657	P	S	PS	probably damaging
rs11544434	NP_057538	L	F	LF	benign
rs11544437	NP_057538	P	T	PT	probably damaging
rs11544443	NP_060293	E	V	EV	possibly damaging
rs11544450	NP_000772	G	C	GC	possibly damaging
rs11544465	NP_006817	D	N	DN	benign
rs11544470	NP_002856	Y	C	YC	probably damaging
rs11544484	NP_443195	V	I	VI	benign

rs11544509	NP_001419	M	I	MI	benign
rs11544514	NP_001419	P	Q	PQ	probably damaging
rs11544519	NP_001419	V	L	VL	benign
rs11544546	NP_000573	D	V	DV	benign
rs11544549	NP_000573	H	N	HN	probably damaging
rs11544551	NP_000573	H	R	HR	probably damaging
rs11544553	NP_000573	R	C	RC	probably damaging
rs11544557	NP_000620	V	F	VF	benign
rs11544566	NP_006294	E	K	EK	benign
rs11544573	NP_004434	S	I	SI	probably damaging
rs11544587	NP_003051	L	P	LP	probably damaging
rs11544593	NP_036228	E	G	EG	possibly damaging
rs11544610	NP_647475	V	M	VM	benign
rs11544613	NP_054790	G	R	GR	possibly damaging
rs11544621	NP_004540	T	A	TA	benign
rs11544622	NP_004540	P	H	PH	probably damaging
rs11544625	NP_004540	P	S	PS	probably damaging
rs11544626	NP_004540	E	G	EG	benign
rs11544627	NP_004540	P	T	PT	possibly damaging
rs11544633	NP_000591	L	P	LP	probably damaging
rs11544636	NP_542454	H	Y	HY	probably damaging
rs11544639	NP_998776	P	S	PS	possibly damaging
rs11544642	NP_998776	V	L	VL	benign
rs11544643	NP_005879	F	L	FL	benign
rs11544643	NP_998776	F	L	FL	benign
rs11544644	NP_005879	W	L	WL	possibly damaging
rs11544644	NP_998776	W	L	WL	probably damaging
rs11544649	NP_005879	R	G	RG	possibly damaging
rs11544649	NP_998776	R	G	RG	possibly damaging
rs11544652	NP_998776	A	T	AT	benign
rs11544653	NP_005879	A	T	AT	benign
rs11544653	NP_998776	A	T	AT	benign
rs11544655	NP_998776	F	L	FL	benign
rs11544656	NP_005879	V	A	VA	benign
rs11544656	NP_998776	V	A	VA	possibly damaging
rs11544657	NP_005879	V	M	VM	benign
rs11544657	NP_998776	V	M	VM	benign
rs11544664	NP_997053	D	H	DH	probably damaging
rs11544664	NP_056299	D	H	DH	probably damaging
rs11544678	NP_076934	L	V	LV	benign
rs11544687	NP_001619	P	L	PL	probably damaging
rs11544695	NP_001291	D	Y	DY	probably damaging
rs11544711	NP_113644	I	N	IN	benign
rs11544715	NP_061142	A	T	AT	benign
rs11544715	NP_758424	A	T	AT	benign
rs11544716	NP_061142	D	G	DG	benign

rs11544716	NP_758424	D	G	DG	benign
rs11544735	NP_003771	H	R	HR	probably damaging
rs11544742	NP_057327	L	P	LP	probably damaging
rs11544766	NP_659477	S	T	ST	benign
rs11544785	NP_055755	R	W	RW	probably damaging
rs11544794	NP_115571	A	V	AV	benign
rs11544794	NP_478063	A	V	AV	benign
rs11544794	NP_620304	A	V	AV	benign
rs11544794	NP_620305	A	V	AV	benign
rs11544794	NP_003094	A	V	AV	benign
rs11544795	NP_057422	I	V	IV	benign
rs11544801	NP_061184	K	R	KR	benign
rs11544810	NP_057575	G	R	GR	possibly damaging
rs11544812	NP_057575	L	R	LR	benign
rs11544814	NP_056965	P	Q	PQ	possibly damaging
rs11544814	NP_037385	P	Q	PQ	possibly damaging
rs11544815	NP_056965	L	M	LM	benign
rs11544815	NP_037385	L	M	LM	benign
rs11544816	NP_056965	E	D	ED	benign
rs11544816	NP_037385	E	D	ED	benign
rs11544821	NP_848567	K	E	KE	benign
rs11544824	NP_115570	K	R	KR	benign
rs11544825	NP_848567	R	G	RG	probably damaging
rs11544830	NP_065161	P	T	PT	possibly damaging
rs11544831	NP_065161	G	W	GW	probably damaging
rs11544832	NP_065203	P	L	PL	benign
rs11544834	XP_087225	A	D	AD	possibly damaging
rs11544836	NP_055430	Q	H	QH	benign
rs11544840	NP_056206	S	F	SF	benign
rs11544841	NP_056206	A	P	AP	benign
rs11544847	NP_073580	L	P	LP	possibly damaging
rs11544848	NP_073580	P	A	PA	possibly damaging
rs11544859	NP_004795	R	W	RW	probably damaging
rs11544868	NP_004858	M	T	MT	benign
rs11544874	XP_058719	I	N	IN	possibly damaging
rs11544889	NP_862822	L	V	LV	benign
rs11544889	NP_006814	L	V	LV	benign
rs11544923	NP_859048	G	V	GV	probably damaging
rs11544925	NP_859048	I	T	IT	benign
rs11544929	NP_859048	T	S	TS	benign
rs11544930	NP_859048	S	L	SL	probably damaging
rs11544934	NP_859048	P	H	PH	probably damaging
rs11544936	NP_859048	S	G	SG	benign
rs11544937	NP_859048	P	T	PT	probably damaging
rs11544942	NP_663760	Q	H	QH	benign
rs11544942	NP_680780	Q	H	QH	benign

rs11544942	NP_680781	Q	H	QH	benign
rs11544942	NP_680782	Q	H	QH	benign
rs11544942	NP_009176	Q	H	QH	benign
rs11544946	XP_291335	C	G	CG	probably damaging
rs11544962	NP_001952	F	L	FL	probably damaging
rs11544973	NP_008818	C	R	CR	benign
rs11544989	XP_378197	V	A	VA	benign
rs11544993	NP_006420	G	W	GW	probably damaging
rs11544995	NP_006420	V	I	VI	benign
rs11544996	XP_498152	C	Y	CY	benign
rs11545000	NP_115633	K	I	KI	possibly damaging
rs11545004	NP_919247	T	A	TA	benign
rs11545004	NP_079402	T	A	TA	benign
rs11545011	NP_620551	A	T	AT	benign
rs11545011	NP_005795	A	T	AT	benign
rs11545014	NP_000603	P	S	PS	benign
rs11545018	NP_001421	S	G	SG	possibly damaging
rs11545035	NP_839952	I	V	IV	benign
rs11545035	NP_006756	I	V	IV	benign
rs11545049	NP_542772	G	E	GE	probably damaging
rs11545049	NP_542773	G	E	GE	probably damaging
rs11545050	NP_542771	A	V	AV	benign
rs11545050	NP_542772	A	V	AV	benign
rs11545050	NP_542774	A	V	AV	benign
rs11545078	NP_003869	T	I	TI	benign
rs11545079	NP_003869	Y	F	YF	benign
rs11545082	NP_076930	E	K	EK	benign
rs11545112	NP_005896	R	G	RG	probably damaging
rs11545113	NP_116010	P	H	PH	probably damaging
rs11545132	NP_065095	A	S	AS	benign
rs11545137	NP_149078	S	P	SP	benign
rs11545139	NP_874384	P	T	PT	benign
rs11545142	NP_002157	S	F	SF	possibly damaging
rs11545148	NP_543010	A	T	AT	benign
rs11545149	NP_543010	K	R	KR	benign
rs11545150	NP_543010	I	V	IV	benign
rs11545154	NP_543010	L	M	LM	benign
rs11545163	NP_002654	A	T	AT	benign
rs11545166	NP_835388	E	A	EA	benign
rs11545166	NP_075384	E	A	EA	benign
rs11545169	NP_002799	E	D	ED	benign
rs11545170	NP_002799	F	L	FL	probably damaging
rs11545172	NP_002799	A	T	AT	benign
rs11545173	NP_002799	E	K	EK	benign
rs11545179	NP_002799	E	Q	EQ	benign
rs11545180	NP_002799	F	L	FL	benign

rs11545181	NP_002799	R	W	RW	possibly damaging
rs11545182	NP_002799	R	L	RL	possibly damaging
rs11545190	NP_963885	F	C	FC	benign
rs11545190	NP_963886	F	C	FC	probably damaging
rs11545193	NP_963885	W	R	WR	possibly damaging
rs11545193	NP_963886	W	R	WR	probably damaging
rs11545196	XP_053074	A	V	AV	benign
rs11545197	XP_053074	P	L	PL	probably damaging
rs11545200	NP_066548	A	V	AV	benign
rs11545228	NP_006403	V	F	VF	benign
rs11545237	NP_955366	V	I	VI	benign
rs11545237	NP_003241	V	I	VI	benign
rs11545238	NP_955366	S	I	SI	possibly damaging
rs11545238	NP_003241	S	I	SI	possibly damaging
rs11545241	NP_068593	A	T	AT	benign
rs11545246	NP_005248	Y	H	YH	possibly damaging
rs11545255	NP_872626	S	I	SI	benign
rs11545255	NP_004419	S	I	SI	possibly damaging
rs11545265	NP_056517	S	T	ST	benign
rs11545269	NP_056517	I	M	IM	benign
rs11545281	NP_997001	D	V	DV	probably damaging
rs11545299	NP_848602	Y	F	YF	benign
rs11545301	NP_542779	G	R	GR	benign
rs11545312	NP_057100	V	G	VG	possibly damaging
rs11545314	NP_057100	L	R	LR	probably damaging
rs11545315	NP_057100	Q	R	QR	possibly damaging
rs11545323	NP_056281	Y	S	YS	probably damaging
rs11545324	NP_853549	N	S	NS	benign
rs11545324	NP_877572	N	S	NS	benign
rs11545324	NP_898829	N	S	NS	benign
rs11545324	NP_877570	N	S	NS	benign
rs11545341	NP_696997	Q	K	QK	possibly damaging
rs11545347	NP_001814	D	N	DN	benign
rs11545349	NP_001814	R	H	RH	probably damaging
rs11545350	NP_001814	P	T	PT	possibly damaging
rs11545352	NP_001814	H	Y	HY	possibly damaging
rs11545361	NP_060523	T	I	TI	benign
rs11545377	NP_071383	Q	K	QK	possibly damaging
rs11545379	NP_937878	K	N	KN	benign
rs11545380	NP_005415	A	T	AT	benign
rs11545382	NP_115729	G	V	GV	possibly damaging
rs11545399	NP_000998	P	S	PS	possibly damaging
rs11545414	NP_000998	Q	L	QL	probably damaging
rs11545422	NP_000998	P	H	PH	probably damaging
rs11545427	NP_015556	Q	K	QK	benign
rs11545430	NP_015556	T	I	TI	possibly damaging

rs11545440	NP_057159	Q	K	QK	benign
rs11545448	NP_000962	K	E	KE	possibly damaging
rs11545461	NP_006401	V	F	VF	possibly damaging
rs11545463	NP_000363	K	N	KN	possibly damaging
rs11545464	NP_000363	Q	H	QH	probably damaging
rs11545467	NP_110381	E	Q	EQ	benign
rs11545467	NP_954630	E	Q	EQ	possibly damaging
rs11545474	NP_954630	V	A	VA	possibly damaging
rs11545475	NP_110381	L	S	LS	possibly damaging
rs11545475	NP_954630	L	S	LS	possibly damaging
rs11545479	NP_006187	T	S	TS	benign
rs11545483	NP_006187	D	E	DE	benign
rs11545496	NP_060919	S	A	SA	benign
rs11545496	NP_065918	S	A	SA	benign
rs11545505	XP_498426	Y	H	YH	possibly damaging
rs11545528	NP_835739	N	S	NS	possibly damaging
rs11545529	NP_005684	I	V	IV	benign
rs11545543	NP_003371	H	P	HP	probably damaging
rs11545546	NP_003371	A	S	AS	benign
rs11545548	NP_003371	V	A	VA	benign
rs11545550	NP_003371	E	Q	EQ	benign
rs11545553	NP_003371	R	H	RH	possibly damaging
rs11545567	NP_071764	L	F	LF	benign
rs11545572	XP_371630	V	A	VA	benign
rs11545579	NP_113643	A	G	AG	benign
rs11545580	NP_060936	I	T	IT	benign
rs11545590	NP_036300	R	S	RS	probably damaging
rs11545591	NP_001191	D	G	DG	probably damaging
rs11545595	NP_777358	K	N	KN	benign
rs11545595	NP_004126	K	N	KN	benign
rs11545596	NP_003494	E	G	EG	possibly damaging
rs11545601	NP_001272	E	G	EG	possibly damaging
rs11545604	NP_006079	M	I	MI	benign
rs11545606	NP_006079	P	S	PS	probably damaging
rs11545608	NP_006079	S	I	SI	probably damaging
rs11545619	NP_060770	H	R	HR	benign
rs11545621	NP_004387	P	S	PS	benign
rs11545623	NP_004387	G	V	GV	probably damaging
rs11545626	NP_001652	S	P	SP	possibly damaging
rs11545628	NP_055099	A	V	AV	benign
rs11545640	NP_001427	L	F	LF	benign
rs11545647	NP_002794	V	A	VA	possibly damaging
rs11545648	NP_002794	K	M	KM	possibly damaging
rs11545654	NP_000134	G	E	GE	probably damaging
rs11545655	NP_000134	D	H	DH	probably damaging
rs11545656	NP_000134	D	Y	DY	benign



rs11545659	NP_000134	G	C	GC	probably damaging
rs11545665	NP_000109	G	D	GD	possibly damaging
rs11545669	NP_037465	G	A	GA	benign
rs11545672	NP_003082	S	P	SP	possibly damaging
rs11545672	NP_937859	S	P	SP	possibly damaging
rs11545689	NP_852668	V	F	VF	possibly damaging
rs11545689	NP_852669	V	F	VF	possibly damaging
rs11545689	NP_057184	V	F	VF	possibly damaging
rs11545690	NP_079021	M	R	MR	benign
rs11545695	NP_036354	A	V	AV	benign
rs11545708	NP_001812	M	T	MT	probably damaging
rs11545713	NP_001680	I	F	IF	probably damaging
rs11545714	NP_848930	D	G	DG	benign
rs11545715	NP_942592	M	V	MV	benign
rs11545715	NP_115593	M	V	MV	possibly damaging
rs11545725	NP_002330	Q	L	QL	possibly damaging
rs11545740	NP_006812	M	V	MV	probably damaging
rs11545745	NP_115878	Q	R	QR	benign
rs11545747	NP_055121	V	A	VA	possibly damaging
rs11545753	NP_909119	D	E	DE	benign
rs11545753	NP_057537	D	E	DE	benign
rs11545758	NP_004583	A	S	AS	benign
rs11545763	NP_077300	G	E	GE	possibly damaging
rs11545772	NP_001395	A	T	AT	benign
rs11545777	NP_036605	A	V	AV	benign
rs11545784	NP_005172	K	R	KR	benign
rs11545807	NP_444273	V	F	VF	benign
rs11545809	NP_444273	G	W	GW	probably damaging
rs11545810	NP_444273	L	V	LV	benign
rs11545817	NP_003801	V	M	VM	benign
rs11545831	NP_476433	R	Q	RQ	benign
rs11545833	NP_697021	N	S	NS	benign
rs11545833	NP_006057	N	S	NS	benign
rs11545844	NP_055569	C	S	CS	possibly damaging
rs11545848	NP_001668	Q	K	QK	possibly damaging
rs11545849	NP_001668	V	M	VM	benign
rs11545852	NP_001668	R	G	RG	probably damaging
rs11545862	NP_059980	M	V	MV	probably damaging
rs11545863	NP_059980	T	I	TI	possibly damaging
rs11545867	NP_059980	P	Q	PQ	probably damaging
rs11545888	NP_005733	P	L	PL	probably damaging
rs11545890	NP_079473	T	M	TM	possibly damaging
rs11545890	NP_788275	T	M	TM	possibly damaging
rs11545890	NP_788276	T	M	TM	possibly damaging
rs11545899	NP_001630	S	A	SA	benign
rs11545902	NP_001630	R	G	RG	probably damaging

rs11545917	NP_690054	G	V	GV	probably damaging
rs11545917	NP_071364	G	V	GV	probably damaging
rs11545938	XP_497077	S	R	SR	benign
rs11545941	NP_000296	A	G	AG	benign
rs11545942	NP_000296	G	R	GR	possibly damaging
rs11545976	NP_004791	P	S	PS	probably damaging
rs11545978	NP_004791	F	S	FS	possibly damaging
rs11545979	NP_004791	E	A	EA	benign
rs11545980	NP_004791	C	R	CR	probably damaging
rs11545987	NP_002257	P	L	PL	probably damaging
rs11545989	NP_002257	P	R	PR	probably damaging
rs11545999	NP_057529	L	F	LF	benign
rs11546004	NP_075422	H	R	HR	possibly damaging
rs11546004	NP_075421	H	R	HR	probably damaging
rs11546015	NP_073557	N	D	ND	benign
rs11546018	NP_899648	V	A	VA	possibly damaging
rs11546022	NP_009057	P	L	PL	probably damaging
rs11546071	XP_496558	A	D	AD	benign
rs11546126	NP_000394	Y	H	YH	benign
rs11546139	NP_003648	V	L	VL	benign
rs11546158	NP_002286	T	I	TI	benign
rs11546163	XP_371155	L	F	LF	possibly damaging
rs11546165	XP_371155	D	Y	DY	probably damaging
rs11546169	XP_370697	P	L	PL	possibly damaging
rs11546179	NP_055038	S	N	SN	benign
rs11546183	NP_550435	H	Y	HY	probably damaging
rs11546183	NP_550436	H	Y	HY	probably damaging
rs11546183	NP_550434	H	Y	HY	probably damaging
rs11546195	NP_000996	G	V	GV	benign
rs11546205	NP_000996	F	S	FS	probably damaging
rs11546214	NP_000996	V	F	VF	possibly damaging
rs11546215	XP_496667	L	P	LP	probably damaging
rs11546219	NP_000996	G	R	GR	probably damaging
rs11546223	NP_000996	P	A	PA	possibly damaging
rs11546234	XP_496667	V	F	VF	possibly damaging
rs11546251	NP_058634	G	E	GE	possibly damaging
rs11546267	NP_005753	S	N	SN	benign
rs11546271	NP_005753	F	L	FL	benign
rs11546272	NP_005753	L	F	LF	benign
rs11546276	NP_005753	E	G	EG	possibly damaging
rs11546278	NP_620148	Q	H	QH	benign
rs11546280	NP_002940	S	P	SP	benign
rs11546292	NP_004902	K	N	KN	benign
rs11546299	NP_620152	R	H	RH	possibly damaging
rs11546303	NP_057645	M	R	MR	benign
rs11546304	NP_057645	G	V	GV	benign

rs11546314	NP_877954	P	L	PL	probably damaging
rs11546314	NP_115874	P	L	PL	probably damaging
rs11546318	NP_079425	S	I	SI	benign
rs11546326	NP_000175	W	C	WC	probably damaging
rs11546326	NP_000550	W	C	WC	probably damaging
rs11546332	NP_722545	G	V	GV	probably damaging
rs11546332	NP_112579	G	V	GV	probably damaging
rs11546342	NP_001685	G	W	GW	possibly damaging
rs11546344	NP_001685	G	R	GR	possibly damaging
rs11546349	NP_004726	N	S	NS	benign
rs11546365	NP_004918	Y	H	YH	possibly damaging
rs11546368	XP_372921	M	I	MI	possibly damaging
rs11546369	XP_372921	T	A	TA	benign
rs11546370	XP_372921	E	V	EV	possibly damaging
rs11546374	NP_066944	G	R	GR	benign
rs11546374	NP_001950	G	R	GR	benign
rs11546375	NP_066944	M	I	MI	probably damaging
rs11546375	NP_001950	M	I	MI	probably damaging
rs11546379	NP_066944	T	I	TI	possibly damaging
rs11546379	NP_001950	T	I	TI	possibly damaging
rs11546386	NP_066944	G	R	GR	benign
rs11546386	NP_001950	G	R	GR	benign
rs11546392	NP_006279	R	S	RS	possibly damaging
rs11546406	NP_075066	T	I	TI	possibly damaging
rs11546413	NP_003498	F	L	FL	benign
rs11546418	NP_057223	H	N	HN	probably damaging
rs11546424	NP_009129	E	K	EK	benign
rs11546426	NP_059118	S	G	SG	benign
rs11546443	NP_060353	S	L	SL	possibly damaging
rs11546444	NP_060353	Q	R	QR	benign
rs11546473	NP_001646	A	V	AV	possibly damaging
rs11546474	NP_003792	T	I	TI	possibly damaging
rs11546494	XP_496725	F	L	FL	benign
rs11546495	NP_006316	P	H	PH	benign
rs11546497	XP_371023	A	P	AP	possibly damaging
rs11546499	NP_150254	P	L	PL	possibly damaging
rs11546499	NP_000968	P	L	PL	possibly damaging
rs11546502	XP_371023	R	W	RW	benign
rs11546505	XP_371023	P	S	PS	probably damaging
rs11546515	NP_067027	A	T	AT	benign
rs11546517	NP_067027	V	L	VL	benign
rs11546518	NP_036367	T	A	TA	benign
rs11546532	NP_057181	A	T	AT	benign
rs11546562	NP_037471	W	L	WL	probably damaging
rs11546569	NP_001481	S	C	SC	possibly damaging
rs11546602	NP_116093	E	G	EG	benign

rs11546605	NP_116093	N	K	NK	benign
rs11546623	NP_116093	P	Q	PQ	probably damaging
rs11546628	NP_116093	D	G	DG	probably damaging
rs11546630	XP_375500	R	Q	RQ	benign
rs11546631	XP_375500	R	W	RW	possibly damaging
rs11546634	NP_079510	L	P	LP	probably damaging
rs11546642	NP_036335	L	F	LF	possibly damaging
rs11546666	NP_066293	C	F	CF	benign
rs11546679	NP_078792	G	S	GS	benign
rs11546682	XP_114618	H	R	HR	probably damaging
rs11546701	NP_068805	P	H	PH	probably damaging
rs11546719	NP_005505	R	H	RH	benign
rs11546721	NP_005505	R	K	RK	probably damaging
rs11546750	NP_821133	C	W	CW	probably damaging
rs11546751	NP_821133	G	D	GD	probably damaging
rs11546773	NP_000961	A	T	AT	benign
rs11546776	NP_000961	S	P	SP	possibly damaging
rs11546780	NP_000961	A	V	AV	benign
rs11546823	XP_208887	G	S	GS	possibly damaging
rs11546827	NP_057722	K	R	KR	benign
rs11546833	NP_075385	P	T	PT	possibly damaging
rs11546842	NP_002684	R	C	RC	probably damaging
rs11546851	NP_056277	D	G	DG	possibly damaging
rs11546855	XP_498129	D	G	DG	probably damaging
rs11546863	NP_006658	D	G	DG	benign
rs11546864	NP_006658	D	N	DN	benign
rs11546871	NP_003556	P	L	PL	possibly damaging
rs11546873	NP_001505	T	S	TS	benign
rs11546878	NP_115707	R	W	RW	possibly damaging
rs11546882	NP_056241	P	L	PL	probably damaging
rs11546894	NP_001092	A	V	AV	benign
rs11546895	NP_001092	L	F	LF	benign
rs11546898	NP_001092	Y	S	YS	probably damaging
rs11546899	NP_001092	P	L	PL	probably damaging
rs11546900	NP_001092	P	L	PL	possibly damaging
rs11546901	NP_001092	H	R	HR	probably damaging
rs11546903	NP_001092	G	S	GS	possibly damaging
rs11546904	NP_001092	K	E	KE	possibly damaging
rs11546910	NP_001092	P	S	PS	probably damaging
rs11546912	NP_001092	Y	C	YC	probably damaging
rs11546913	NP_001092	P	S	PS	probably damaging
rs11546917	NP_001092	S	P	SP	probably damaging
rs11546929	NP_001092	A	V	AV	benign
rs11546931	NP_001092	V	G	VG	probably damaging
rs11546934	NP_001092	R	L	RL	probably damaging
rs11546937	NP_001092	Y	F	YF	benign

rs11546958	NP_006394	D	H	DH	possibly damaging
rs11546959	NP_006394	D	N	DN	benign
rs11546967	NP_002602	N	H	NH	possibly damaging
rs11546972	NP_005727	R	Q	RQ	benign
rs11546982	NP_057131	A	V	AV	benign
rs11546985	NP_004300	H	Y	HY	probably damaging
rs11546987	NP_004300	S	I	SI	probably damaging
rs11546991	NP_004300	P	S	PS	probably damaging
rs11546993	XP_371036	G	D	GD	possibly damaging
rs11546995	NP_060357	C	S	CS	probably damaging
rs11546996	NP_003112	A	P	AP	benign
rs11546997	NP_612145	A	T	AT	benign
rs11547001	NP_612145	I	F	IF	benign
rs11547007	NP_000987	F	S	FS	probably damaging
rs11547008	NP_000987	T	A	TA	benign
rs11547009	NP_000987	H	Y	HY	probably damaging
rs11547019	NP_777577	A	P	AP	possibly damaging
rs11547028	NP_002761	A	V	AV	benign
rs11547031	NP_689797	E	G	EG	possibly damaging
rs11547051	NP_002939	K	N	KN	possibly damaging
rs11547055	NP_002939	S	F	SF	probably damaging
rs11547061	NP_463459	L	P	LP	probably damaging
rs11547061	NP_055090	L	P	LP	probably damaging
rs11547062	NP_463459	S	R	SR	benign
rs11547062	NP_055090	S	R	SR	benign
rs11547063	NP_463459	P	S	PS	benign
rs11547063	NP_055090	P	S	PS	benign
rs11547071	NP_077017	C	S	CS	probably damaging
rs11547072	NP_077017	R	Q	RQ	benign
rs11547093	NP_066564	E	V	EV	possibly damaging
rs11547095	NP_009177	P	Q	PQ	possibly damaging
rs11547101	NP_114405	S	Y	SY	benign
rs11547118	NP_009105	A	G	AG	benign
rs11547141	NP_078871	E	K	EK	possibly damaging
rs11547146	NP_006267	W	L	WL	probably damaging
rs11547156	NP_006004	V	F	VF	probably damaging
rs11547160	NP_112573	G	R	GR	benign
rs11547163	NP_001531	S	I	SI	probably damaging
rs11547165	NP_001531	L	M	LM	benign
rs11547167	NP_001531	E	D	ED	benign
rs11547174	NP_000665	S	P	SP	possibly damaging
rs11547175	NP_000665	A	S	AS	benign
rs11547176	NP_000665	R	H	RH	possibly damaging
rs11547177	NP_000665	P	H	PH	possibly damaging
rs11547186	NP_064601	D	Y	DY	probably damaging
rs11547195	NP_008920	S	N	SN	benign

rs11547196	NP_003215	W	C	WC	probably damaging
rs11547202	NP_776251	M	I	MI	benign
rs11547217	NP_066949	A	V	AV	benign
rs11547228	NP_060404	T	I	TI	benign
rs11547231	NP_005726	V	A	VA	benign
rs11547234	NP_001784	M	I	MI	probably damaging
rs11547235	NP_055819	T	A	TA	benign
rs11547237	NP_055819	E	G	EG	probably damaging
rs11547238	NP_002992	C	S	CS	benign
rs11547254	NP_003553	P	T	PT	benign
rs11547262	NP_037466	V	L	VL	benign
rs11547262	NP_068806	V	L	VL	benign
rs11547273	NP_057161	P	T	PT	probably damaging
rs11547279	NP_006755	L	F	LF	benign
rs11547283	NP_004996	P	L	PL	benign
rs11547284	NP_004996	P	S	PS	benign
rs11547290	NP_006525	Q	K	QK	benign
rs11547290	NP_858045	Q	K	QK	benign
rs11547296	NP_208385	P	R	PR	benign
rs11547296	NP_036307	P	R	PR	benign
rs11547298	NP_055140	D	Y	DY	probably damaging
rs11547305	NP_973727	V	A	VA	benign
rs11547305	NP_973724	V	A	VA	benign
rs11547305	NP_973726	V	A	VA	benign
rs11547305	NP_004621	V	A	VA	benign
rs11547306	NP_973724	S	F	SF	benign
rs11547306	NP_973727	S	F	SF	possibly damaging
rs11547306	NP_004621	S	F	SF	possibly damaging
rs11547328	NP_000066	R	C	RC	probably damaging
rs11547330	NP_003503	P	S	PS	probably damaging
rs11547333	NP_065159	R	S	RS	benign
rs11547368	NP_002782	A	S	AS	benign
rs11547372	NP_444274	A	V	AV	benign
rs11547375	NP_003177	P	R	PR	possibly damaging
rs11547378	NP_931045	A	V	AV	benign
rs11547388	NP_005315	Q	H	QH	probably damaging
rs11547392	NP_005315	D	V	DV	probably damaging
rs11547395	NP_005315	P	R	PR	probably damaging
rs11547396	NP_005315	R	H	RH	benign
rs11547397	NP_005315	A	G	AG	benign
rs11547402	NP_004277	G	R	GR	possibly damaging
rs11547446	NP_115612	S	T	ST	benign
rs11547455	NP_003141	S	F	SF	possibly damaging
rs11547455	NP_644805	S	F	SF	probably damaging
rs11547459	NP_945191	G	W	GW	probably damaging
rs11547459	NP_945192	G	W	GW	probably damaging

rs11547463	NP_653230	C	R	CR	benign
rs11547464	NP_002377	R	H	RH	probably damaging
rs11547467	NP_201585	D	Y	DY	probably damaging
rs11547472	NP_003376	G	S	GS	possibly damaging
rs11547480	NP_064708	L	R	LR	possibly damaging
rs11547483	NP_057439	M	T	MT	benign
rs11547483	NP_957518	M	T	MT	possibly damaging
rs11547484	NP_056146	V	M	VM	benign
rs11547491	NP_006504	A	S	AS	benign
rs11547494	NP_858062	G	V	GV	probably damaging
rs11547494	NP_858063	G	V	GV	probably damaging
rs11547494	NP_858064	G	V	GV	probably damaging
rs11547494	NP_858061	G	V	GV	probably damaging
rs11547503	NP_071895	W	L	WL	probably damaging
rs11547505	NP_057690	R	K	RK	benign
rs11547512	NP_005339	Q	L	QL	probably damaging
rs11547516	XP_084514	A	V	AV	possibly damaging
rs11547519	NP_005339	D	A	DA	possibly damaging
rs11547527	XP_084514	D	G	DG	probably damaging
rs11547532	NP_005339	M	I	MI	probably damaging
rs11547536	XP_084514	A	S	AS	benign
rs11547537	NP_005339	M	I	MI	benign
rs11547538	NP_005339	F	L	FL	benign
rs11547543	NP_005339	M	K	MK	probably damaging
rs11547548	NP_085048	Q	K	QK	possibly damaging
rs11547562	NP_004334	K	N	KN	possibly damaging
rs11547563	NP_004334	W	G	WG	probably damaging
rs11547568	NP_004334	F	L	FL	benign
rs11547569	NP_004334	V	M	VM	benign
rs11547571	NP_057330	P	A	PA	possibly damaging
rs11547579	NP_055629	T	A	TA	possibly damaging
rs11547593	NP_067020	R	G	RG	benign
rs11547597	NP_057569	E	G	EG	probably damaging
rs11547600	NP_057569	H	N	HN	probably damaging
rs11547609	NP_002622	D	N	DN	benign
rs11547610	NP_002622	A	S	AS	benign
rs11547612	NP_065761	P	H	PH	possibly damaging
rs11547613	NP_065761	R	G	RG	possibly damaging
rs11547614	NP_065761	P	L	PL	possibly damaging
rs11547615	NP_065761	V	I	VI	benign
rs11547618	NP_064446	K	R	KR	benign
rs11547619	NP_064446	C	F	CF	probably damaging
rs11547621	NP_150592	L	F	LF	benign
rs11547629	NP_588608	Q	R	QR	possibly damaging
rs11547639	NP_065438	I	V	IV	benign
rs11547647	XP_054284	F	L	FL	possibly damaging

rs11547654	NP_009172	K	M	KM	benign
rs11547660	NP_055574	S	R	SR	benign
rs11547668	NP_056988	T	S	TS	benign
rs11547670	NP_056988	K	E	KE	benign
rs11547671	NP_112191	C	G	CG	probably damaging
rs11547685	NP_005871	R	T	RT	probably damaging
rs11547696	NP_982255	G	V	GV	probably damaging
rs11547696	NP_066953	G	V	GV	probably damaging
rs11547706	NP_066953	G	D	GD	benign
rs11547706	NP_982255	G	D	GD	possibly damaging
rs11547713	NP_982255	P	R	PR	benign
rs11547713	NP_066953	P	R	PR	benign
rs11547730	XP_371474	F	L	FL	benign
rs11547731	XP_371474	I	V	IV	benign
rs11547746	NP_000704	R	Q	RQ	benign
rs11547747	NP_000704	V	I	VI	benign
rs11547756	NP_057374	A	S	AS	benign
rs11547765	NP_037511	G	E	GE	probably damaging
rs11547778	NP_057144	S	F	SF	benign
rs11547791	NP_005846	G	S	GS	benign
rs11547798	NP_055571	E	Q	EQ	benign
rs11547805	NP_065228	K	N	KN	possibly damaging
rs11547806	NP_872379	P	A	PA	possibly damaging
rs11547807	XP_371078	A	E	AE	benign
rs11547809	NP_060496	K	N	KN	benign
rs11547811	NP_005016	K	E	KE	benign
rs11547820	NP_004590	R	S	RS	benign
rs11547822	NP_004590	K	E	KE	benign
rs11547823	NP_004590	Q	H	QH	possibly damaging
rs11547824	NP_005509	S	T	ST	possibly damaging
rs11547829	NP_006144	H	N	HN	benign
rs11547830	NP_006144	P	H	PH	probably damaging
rs11547835	NP_004222	A	T	AT	benign
rs11547836	NP_004222	P	T	PT	probably damaging
rs11547840	NP_003747	P	L	PL	probably damaging
rs11547848	NP_060292	E	K	EK	benign
rs11547853	NP_536858	L	P	LP	probably damaging
rs11547853	NP_536859	L	P	LP	probably damaging
rs11547853	NP_002822	L	P	LP	probably damaging
rs11547859	NP_003072	K	R	KR	possibly damaging
rs11547861	NP_003072	D	G	DG	benign
rs11547861	NP_570824	D	G	DG	benign
rs11547873	NP_570824	Q	R	QR	benign
rs11547873	NP_003072	Q	R	QR	possibly damaging
rs11547881	NP_057524	S	P	SP	benign
rs11547882	NP_057524	P	T	PT	possibly damaging



rs11547883	NP_057524	F	L	FL	benign
rs11547889	NP_002993	R	G	RG	probably damaging
rs11547892	NP_002993	L	P	LP	benign
rs11547904	NP_000726	R	G	RG	probably damaging
rs11547907	NP_008993	L	F	LF	benign
rs11547915	NP_443164	V	F	VF	benign
rs11547922	NP_002291	P	L	PL	possibly damaging
rs11547923	NP_002291	V	F	VF	possibly damaging
rs11547925	NP_002291	G	V	GV	probably damaging
rs11547926	NP_002291	P	S	PS	benign
rs11547927	NP_002291	P	T	PT	probably damaging
rs11547934	NP_665801	H	N	HN	probably damaging
rs11547934	NP_665799	H	N	HN	probably damaging
rs11547950	NP_057030	K	E	KE	benign
rs11547963	NP_064595	V	G	VG	possibly damaging
rs11547963	NP_945119	V	G	VG	possibly damaging
rs11547965	NP_064595	R	C	RC	possibly damaging
rs11547965	NP_945119	R	C	RC	possibly damaging
rs11547967	NP_064595	E	D	ED	benign
rs11547967	NP_945119	E	D	ED	benign
rs11547969	NP_000958	L	V	LV	benign
rs11547974	NP_000958	A	V	AV	possibly damaging
rs11547978	NP_000958	T	I	TI	benign
rs11547982	NP_000958	L	R	LR	probably damaging
rs11547987	NP_000958	K	E	KE	benign
rs11547990	NP_000958	H	R	HR	possibly damaging
rs11547999	NP_000958	V	A	VA	benign
rs11548004	NP_000958	I	T	IT	benign
rs11548021	NP_000958	R	Q	RQ	possibly damaging
rs11548027	NP_000958	H	N	HN	probably damaging
rs11548034	NP_061955	G	W	GW	probably damaging
rs11548041	NP_002480	D	G	DG	possibly damaging
rs11548056	NP_002406	I	T	IT	probably damaging
rs11548060	XP_291241	T	N	TN	benign
rs11548063	XP_291241	P	T	PT	probably damaging
rs11548066	NP_006221	L	M	LM	benign
rs11548081	NP_004346	N	K	NK	possibly damaging
rs11548082	NP_004346	Y	C	YC	probably damaging
rs11548098	NP_004692	T	A	TA	benign
rs11548112	NP_057006	A	T	AT	benign
rs11548113	NP_057006	E	V	EV	probably damaging
rs11548114	NP_057006	E	G	EG	possibly damaging
rs11548125	NP_002100	A	T	AT	benign
rs11548131	NP_056455	V	F	VF	benign
rs11548133	NP_058212	P	T	PT	possibly damaging
rs11548133	NP_058214	P	T	PT	possibly damaging

rs11548133	NP_058434	P	T	PT	possibly damaging
rs11548133	NP_058436	P	T	PT	possibly damaging
rs11548133	NP_058437	P	T	PT	possibly damaging
rs11548133	NP_058438	P	T	PT	possibly damaging
rs11548133	NP_058213	P	T	PT	probably damaging
rs11548133	NP_002533	P	T	PT	probably damaging
rs11548140	NP_060085	R	H	RH	possibly damaging
rs11548149	NP_037534	A	G	AG	possibly damaging
rs11548150	NP_037534	A	T	AT	benign
rs11548166	XP_058967	R	G	RG	possibly damaging
rs11548167	NP_115754	V	F	VF	benign
rs11548167	NP_001951	V	F	VF	benign
rs11548168	NP_115754	A	V	AV	benign
rs11548168	NP_001951	A	V	AV	benign
rs11548172	NP_006813	L	M	LM	benign
rs11548175	NP_115914	V	L	VL	benign
rs11548176	NP_115914	R	W	RW	probably damaging
rs11548187	NP_066991	R	W	RW	probably damaging
rs11548193	NP_001181	R	T	RT	benign
rs11548194	NP_001181	R	Q	RQ	possibly damaging
rs11548199	NP_005989	H	Y	HY	probably damaging
rs11548208	NP_002718	S	P	SP	benign
rs11548213	NP_002718	N	D	ND	benign
rs11548224	NP_660286	T	S	TS	benign
rs11548226	NP_055116	L	V	LV	benign
rs11548230	NP_055116	A	T	AT	possibly damaging
rs11548254	NP_055932	T	K	TK	benign
rs11548256	NP_563581	R	H	RH	benign
rs11548268	NP_338599	S	F	SF	possibly damaging
rs11548269	NP_036377	I	F	IF	benign
rs11548275	NP_077002	M	T	MT	benign
rs11548284	NP_003910	N	S	NS	benign
rs11548285	NP_003910	R	Q	RQ	benign
rs11548286	NP_003910	E	A	EA	benign
rs11548287	NP_115740	F	L	FL	possibly damaging
rs11548289	NP_115740	E	G	EG	possibly damaging
rs11548290	NP_002930	V	A	VA	benign
rs11548290	NP_976318	V	A	VA	benign
rs11548290	NP_976322	V	A	VA	benign
rs11548290	NP_976323	V	A	VA	benign
rs11548290	NP_976321	V	A	VA	benign
rs11548290	NP_976320	V	A	VA	benign
rs11548290	NP_976317	V	A	VA	benign
rs11548290	NP_976319	V	A	VA	benign
rs11548294	NP_001448	I	F	IF	possibly damaging
rs11548295	NP_005507	A	V	AV	benign

rs11548297	NP_005507	L	V	LV	benign
rs11548298	NP_005507	V	A	VA	benign
rs11548299	NP_005507	S	R	SR	benign
rs11548304	NP_000009	S	F	SF	possibly damaging
rs11548305	NP_000009	V	I	VI	benign
rs11548313	NP_006852	G	A	GA	benign
rs11548330	NP_065804	Q	R	QR	benign
rs11548333	XP_371010	L	F	LF	benign
rs11548335	NP_068578	P	Q	PQ	probably damaging
rs11548348	XP_165448	K	R	KR	benign
rs11548349	XP_165448	L	P	LP	probably damaging
rs11548351	NP_444505	Q	H	QH	possibly damaging
rs11548352	XP_165448	F	L	FL	benign
rs11548354	XP_165448	R	L	RL	probably damaging
rs11548355	XP_165448	I	F	IF	possibly damaging
rs11548359	NP_444505	Q	H	QH	benign
rs11548360	XP_165448	E	K	EK	possibly damaging
rs11548361	XP_165448	E	G	EG	benign
rs11548362	XP_165448	N	D	ND	benign
rs11548363	XP_165448	E	Q	EQ	benign
rs11548365	XP_165448	P	S	PS	possibly damaging
rs11548367	XP_165448	A	V	AV	possibly damaging
rs11548370	XP_165448	A	S	AS	benign
rs11548371	XP_165448	T	I	TI	benign
rs11548379	NP_444505	N	K	NK	benign
rs11548381	XP_165448	P	R	PR	benign
rs11548382	XP_165448	G	C	GC	probably damaging
rs11548385	XP_165448	H	Y	HY	benign
rs11548390	NP_002523	E	G	EG	possibly damaging
rs11548395	NP_000175	E	V	EV	benign
rs11548395	NP_000550	E	V	EV	benign
rs11548396	NP_940909	P	T	PT	possibly damaging
rs11548401	NP_001141	T	S	TS	possibly damaging
rs11548407	NP_038470	P	S	PS	probably damaging
rs11548409	NP_689613	G	E	GE	possibly damaging
rs11548416	NP_115873	A	V	AV	benign
rs11548423	XP_290777	E	G	EG	possibly damaging
rs11548431	NP_996800	D	Y	DY	probably damaging
rs11548432	NP_996800	N	D	ND	benign
rs11548458	NP_066925	R	W	RW	probably damaging
rs11548459	NP_066925	P	L	PL	probably damaging
rs11548465	NP_060370	E	D	ED	benign
rs11548473	NP_061108	V	F	VF	possibly damaging
rs11548486	XP_209569	M	I	MI	benign
rs11548491	NP_001558	A	G	AG	benign
rs11548526	NP_877578	S	F	SF	probably damaging

rs11548526	NP_000997	S	F	SF	probably damaging
rs11548527	XP_039702	S	F	SF	benign
rs11548529	XP_039702	S	F	SF	possibly damaging
rs11548541	NP_003928	K	E	KE	benign
rs11548561	NP_054749	M	I	MI	possibly damaging
rs11548572	NP_055156	L	P	LP	possibly damaging
rs11548575	NP_055156	F	L	FL	benign
rs11548581	NP_055156	P	A	PA	possibly damaging
rs11548596	NP_680090	P	L	PL	probably damaging
rs11548596	NP_680091	P	L	PL	probably damaging
rs11548596	NP_680092	P	L	PL	probably damaging
rs11548596	NP_680093	P	L	PL	probably damaging
rs11548596	NP_001899	P	L	PL	probably damaging
rs11548605	NP_000508	A	V	AV	benign
rs11548605	NP_000549	A	V	AV	benign
rs11548615	NP_055568	A	S	AS	benign
rs11548633	NP_003891	K	E	KE	benign
rs11548635	NP_003891	W	R	WR	probably damaging
rs11548649	NP_060422	D	G	DG	possibly damaging
rs11548663	NP_057359	V	M	VM	benign
rs11548675	NP_077318	S	P	SP	benign
rs11548676	NP_077318	A	S	AS	benign
rs11548711	XP_371023	R	M	RM	possibly damaging
rs11548722	NP_004402	G	R	GR	probably damaging
rs11548739	NP_000356	G	V	GV	probably damaging
rs11548740	XP_371261	T	S	TS	benign
rs11548741	XP_371261	H	Y	HY	probably damaging
rs11548742	XP_371261	V	G	VG	probably damaging
rs11548743	XP_371261	A	E	AE	probably damaging
rs11548744	XP_371261	P	T	PT	benign
rs11548747	XP_371261	Q	K	QK	benign
rs11548749	NP_000356	F	L	FL	benign
rs11548751	XP_371261	A	S	AS	benign
rs11548761	NP_001350	F	L	FL	probably damaging
rs11548765	NP_055271	S	Y	SY	possibly damaging
rs11548765	NP_663314	S	Y	SY	possibly damaging
rs11548778	NP_061820	M	T	MT	probably damaging
rs11548785	NP_061820	K	R	KR	possibly damaging
rs11548791	NP_061820	R	W	RW	benign
rs11548795	NP_061820	K	R	KR	benign
rs11548796	NP_061820	P	S	PS	probably damaging
rs11548798	NP_061820	K	M	KM	possibly damaging
rs11548799	NP_061820	T	A	TA	probably damaging
rs11548805	NP_061820	G	D	GD	probably damaging
rs11548812	NP_061820	K	N	KN	possibly damaging
rs11548815	NP_061820	V	I	VI	benign

rs11548816	NP_061820	T	I	TI	possibly damaging
rs11548818	NP_061820	P	H	PH	probably damaging
rs11548820	NP_061820	Y	C	YC	probably damaging
rs11548825	NP_998801	S	C	SC	benign
rs11548825	NP_976228	S	C	SC	benign
rs11548825	NP_005442	S	C	SC	benign
rs11548839	NP_057564	P	T	PT	probably damaging
rs11548840	NP_057564	P	A	PA	probably damaging
rs11548856	NP_004630	A	V	AV	benign
rs11548856	NP_542434	A	V	AV	benign
rs11548858	NP_004630	G	D	GD	possibly damaging
rs11548858	NP_542434	G	D	GD	possibly damaging
rs11548866	NP_115607	A	S	AS	benign
rs11548870	NP_001340	A	T	AT	benign
rs11548876	NP_009152	A	V	AV	benign
rs11548878	NP_612642	Q	H	QH	possibly damaging
rs11548880	NP_612642	S	F	SF	possibly damaging
rs11548883	XP_291268	F	L	FL	possibly damaging
rs11548889	NP_003534	R	H	RH	probably damaging
rs11548902	NP_037397	A	S	AS	benign
rs11548912	NP_055227	L	F	LF	benign
rs11548916	NP_055418	K	E	KE	benign
rs11548921	NP_038476	R	G	RG	possibly damaging
rs11548921	NP_872589	R	G	RG	possibly damaging
rs11548926	NP_689407	Y	C	YC	probably damaging
rs11548927	NP_057163	A	V	AV	benign
rs11548971	NP_006207	C	S	CS	possibly damaging
rs11548973	NP_006207	L	Q	LQ	possibly damaging
rs11548974	NP_006207	I	V	IV	benign
rs11548975	NP_997219	H	R	HR	possibly damaging
rs11548976	NP_997219	A	V	AV	benign
rs11548996	NP_000166	M	I	MI	benign
rs11549002	NP_000166	E	D	ED	benign
rs11549005	NP_068355	P	H	PH	probably damaging
rs11549005	NP_006418	P	H	PH	probably damaging
rs11549010	NP_006114	V	I	VI	benign
rs11549010	NP_000193	V	I	VI	benign
rs11549015	NP_644670	V	I	VI	benign
rs11549023	NP_000007	A	V	AV	benign
rs11549026	NP_000007	P	T	PT	probably damaging
rs11549029	NP_653218	P	L	PL	probably damaging
rs11549032	NP_003843	K	E	KE	benign
rs11549032	NP_056989	K	E	KE	benign
rs11549036	NP_002853	G	A	GA	benign
rs11549039	NP_006276	P	S	PS	possibly damaging
rs11549043	NP_004644	D	Y	DY	possibly damaging

rs11549044	NP_003346	R	C	RC	possibly damaging
rs11549055	NP_000963	R	L	RL	benign
rs11549079	NP_056469	E	K	EK	benign
rs11549094	NP_000138	Q	R	QR	benign
rs11549095	NP_000138	R	H	RH	benign
rs11549096	NP_000138	D	N	DN	possibly damaging
rs11549109	NP_054864	Y	H	YH	possibly damaging
rs11549113	NP_054864	R	H	RH	possibly damaging
rs11549136	NP_003720	R	G	RG	probably damaging
rs11549141	NP_006467	I	S	IS	possibly damaging
rs11549147	NP_004453	K	R	KR	benign
rs11549152	NP_004453	S	G	SG	benign
rs11549154	NP_005527	P	H	PH	probably damaging
rs11549172	NP_001605	P	L	PL	probably damaging
rs11549173	NP_001605	K	N	KN	benign
rs11549175	NP_001605	G	V	GV	probably damaging
rs11549176	NP_001605	P	L	PL	probably damaging
rs11549177	NP_001605	P	L	PL	probably damaging
rs11549179	NP_001605	S	F	SF	probably damaging
rs11549180	NP_001605	A	V	AV	benign
rs11549181	NP_001605	A	V	AV	benign
rs11549185	NP_001605	G	A	GA	probably damaging
rs11549186	NP_001605	A	V	AV	possibly damaging
rs11549188	NP_001605	E	Q	EQ	possibly damaging
rs11549190	NP_001605	A	V	AV	benign
rs11549196	NP_001605	A	S	AS	benign
rs11549199	NP_001605	Q	L	QL	probably damaging
rs11549200	NP_001605	A	P	AP	possibly damaging
rs11549202	NP_001605	G	A	GA	benign
rs11549204	NP_001605	S	L	SL	probably damaging
rs11549206	NP_001605	T	I	TI	probably damaging
rs11549214	NP_001605	G	R	GR	benign
rs11549215	NP_001605	M	I	MI	probably damaging
rs11549216	NP_001605	V	G	VG	probably damaging
rs11549225	NP_001605	A	V	AV	probably damaging
rs11549229	NP_001605	P	T	PT	probably damaging
rs11549231	NP_001605	P	H	PH	probably damaging
rs11549236	NP_001605	H	R	HR	probably damaging
rs11549241	NP_001605	M	V	MV	possibly damaging
rs11549243	NP_001605	V	M	VM	possibly damaging
rs11549244	NP_001605	P	L	PL	probably damaging
rs11549251	NP_997227	V	M	VM	benign
rs11549260	NP_036259	R	Q	RQ	benign
rs11549262	NP_036259	L	P	LP	possibly damaging
rs11549266	NP_036259	V	M	VM	benign
rs11549270	NP_065908	A	V	AV	benign

rs11549282	NP_006102	D	Y	DY	probably damaging
rs11549285	NP_006102	M	V	MV	benign
rs11549310	NP_689692	R	H	RH	benign
rs11549312	NP_110517	R	W	RW	probably damaging
rs11549316	NP_002037	S	L	SL	probably damaging
rs11549322	NP_002037	H	Q	HQ	probably damaging
rs11549334	NP_002037	K	N	KN	probably damaging
rs11549345	NP_002037	S	P	SP	possibly damaging
rs11549348	NP_002037	G	A	GA	benign
rs11549406	NP_000509	L	V	LV	benign
rs11549407	NP_000509	Q	K	QK	possibly damaging
rs11549415	NP_683712	V	A	VA	benign
rs11549415	NP_683711	V	A	VA	benign
rs11549415	NP_683714	V	A	VA	benign
rs11549415	NP_683713	V	A	VA	benign
rs11549415	NP_683710	V	A	VA	benign
rs11549417	NP_001625	I	V	IV	benign
rs11549428	NP_003736	Q	H	QH	benign
rs11549441	NP_001876	A	P	AP	benign
rs11549461	NP_116269	C	G	CG	probably damaging
rs11549465	NP_851397	P	S	PS	benign
rs11549465	NP_001521	P	S	PS	possibly damaging
rs11549467	NP_851397	A	T	AT	benign
rs11549467	NP_001521	A	T	AT	benign
rs11549470	NP_001144	T	M	TM	possibly damaging
rs11549472	NP_066982	G	R	GR	probably damaging
rs11549485	NP_057648	N	D	ND	benign
rs11549498	NP_001297	R	S	RS	probably damaging
rs11549502	XP_041162	A	V	AV	benign
rs11549508	NP_067650	L	I	LI	benign
rs11549509	NP_067650	P	H	PH	probably damaging
rs11549510	NP_067650	V	L	VL	benign
rs11549511	NP_002328	G	C	GC	probably damaging
rs11549520	NP_036610	M	V	MV	possibly damaging
rs11549523	NP_036610	F	S	FS	probably damaging
rs11549537	NP_001006	R	C	RC	probably damaging
rs11549550	NP_001006	P	T	PT	benign
rs11549551	NP_001006	R	H	RH	benign
rs11549552	NP_001006	Q	E	QE	benign
rs11549557	NP_066018	E	G	EG	possibly damaging
rs11549559	NP_004413	G	A	GA	benign
rs11549571	NP_149977	R	C	RC	probably damaging
rs11549577	NP_000959	F	L	FL	probably damaging
rs11549578	NP_000959	I	T	IT	benign
rs11549580	NP_000959	R	C	RC	probably damaging
rs11549588	NP_000959	I	F	IF	probably damaging

rs11549600	NP_000959	P	A	PA	probably damaging
rs11549617	NP_001395	L	F	LF	benign
rs11549643	NP_056153	P	L	PL	probably damaging
rs11549647	NP_689511	E	D	ED	benign
rs11549647	NP_751896	E	D	ED	benign
rs11549647	NP_002473	E	D	ED	benign
rs11549661	NP_958817	T	I	TI	benign
rs11549661	NP_958816	T	I	TI	possibly damaging
rs11549661	NP_000475	T	I	TI	possibly damaging
rs11549666	NP_005563	N	H	NH	benign
rs11549666	NP_733822	N	H	NH	possibly damaging
rs11549666	NP_733821	N	H	NH	possibly damaging
rs11549667	NP_733822	K	T	KT	possibly damaging
rs11549667	NP_733821	K	T	KT	possibly damaging
rs11549667	NP_005563	K	T	KT	probably damaging
rs11549669	NP_005563	E	G	EG	benign
rs11549669	NP_733822	E	G	EG	possibly damaging
rs11549669	NP_733821	E	G	EG	possibly damaging
rs11549682	NP_000482	C	W	CW	probably damaging
rs11549693	NP_055572	L	P	LP	possibly damaging
rs11549696	NP_644671	P	T	PT	probably damaging
rs11549700	NP_006396	L	M	LM	benign
rs11549703	NP_065969	S	Y	SY	possibly damaging
rs11549717	NP_078974	P	S	PS	benign
rs11549721	NP_002847	A	V	AV	benign
rs11549734	NP_005166	K	N	KN	probably damaging
rs11549739	NP_001689	P	Q	PQ	possibly damaging
rs11549756	NP_004628	P	A	PA	benign
rs11549759	NP_004628	K	E	KE	possibly damaging
rs11549764	NP_003777	A	V	AV	benign
rs11549770	NP_037447	G	E	GE	possibly damaging
rs11549770	NP_954869	G	E	GE	possibly damaging
rs11549770	NP_954870	G	E	GE	possibly damaging
rs11549776	NP_065147	P	S	PS	benign
rs11549777	NP_065147	A	V	AV	benign
rs11549778	NP_065147	S	P	SP	benign
rs11549779	NP_065147	K	R	KR	benign
rs11549795	NP_115580	V	I	VI	benign
rs11549796	NP_115580	A	P	AP	benign
rs11549797	NP_115580	T	I	TI	possibly damaging
rs11549798	NP_005351	G	D	GD	possibly damaging
rs11549810	NP_777588	T	N	TN	benign
rs11549824	NP_542385	P	S	PS	possibly damaging
rs11549830	NP_443160	R	W	RW	benign
rs11549832	NP_113632	A	T	AT	benign
rs11549854	NP_148982	M	K	MK	probably damaging



rs11549855	NP_057329	I	M	IM	benign
rs11549856	NP_057329	L	P	LP	probably damaging
rs11549864	XP_495935	S	Y	SY	possibly damaging
rs11549868	NP_006421	D	V	DV	probably damaging
rs11549870	NP_006421	T	I	TI	benign
rs11549871	NP_006421	A	P	AP	benign
rs11549885	NP_114367	R	W	RW	probably damaging
rs11549885	NP_114368	R	W	RW	probably damaging
rs11549885	NP_002810	R	W	RW	probably damaging
rs11549886	NP_114367	S	L	SL	benign
rs11549886	NP_114368	S	L	SL	benign
rs11549886	NP_002810	S	L	SL	benign
rs11549909	NP_002464	V	L	VL	benign
rs11549914	NP_857593	P	S	PS	benign
rs11549914	NP_003701	P	S	PS	benign
rs11549915	NP_857593	Y	C	YC	probably damaging
rs11549915	NP_003701	Y	C	YC	probably damaging
rs11549916	NP_060518	G	R	GR	probably damaging
rs11549918	NP_003250	I	V	IV	benign
rs11549919	NP_003181	R	Q	RQ	benign
rs11549919	NP_757346	R	Q	RQ	benign
rs11549938	NP_000700	M	L	ML	benign
rs11549946	NP_003783	L	M	LM	benign
rs11549946	NP_694880	L	M	LM	benign
rs11549952	NP_000415	S	F	SF	possibly damaging
rs11549953	NP_000415	H	Y	HY	benign
rs11549969	NP_006443	S	C	SC	possibly damaging
rs11549978	NP_055392	R	G	RG	benign
rs11549992	NP_002871	A	V	AV	benign
rs11550016	NP_055416	P	L	PL	probably damaging
rs11550018	NP_612461	P	L	PL	probably damaging
rs11550019	NP_612461	Q	H	QH	possibly damaging
rs11550022	NP_004279	E	G	EG	possibly damaging
rs11550029	NP_056147	R	C	RC	probably damaging
rs11550034	NP_060185	I	T	IT	benign
rs11550034	NP_116313	I	T	IT	benign
rs11550038	NP_068818	K	R	KR	benign
rs11550062	NP_005984	G	C	GC	possibly damaging
rs11550079	XP_495939	A	V	AV	benign
rs11550103	NP_060379	S	I	SI	benign
rs11550112	NP_063968	S	I	SI	possibly damaging
rs11550112	NP_058432	S	I	SI	possibly damaging
rs11550117	NP_002848	P	L	PL	probably damaging
rs11550118	NP_002848	Q	L	QL	possibly damaging
rs11550119	NP_002848	A	V	AV	benign
rs11550124	NP_064582	H	N	HN	probably damaging

rs11550129	NP_852480	Q	R	QR	possibly damaging
rs11550144	NP_006400	V	F	VF	benign
rs11550151	NP_005498	R	H	RH	benign
rs11550156	NP_005498	V	I	VI	benign
rs11550157	NP_005498	K	N	KN	possibly damaging
rs11550158	NP_005498	A	S	AS	benign
rs11550160	NP_005498	C	F	CF	probably damaging
rs11550166	NP_078960	S	P	SP	benign
rs11550213	NP_002941	K	N	KN	benign
rs11550225	NP_001627	G	W	GW	probably damaging
rs11550226	NP_001627	D	Y	DY	probably damaging
rs11550227	NP_001627	F	L	FL	possibly damaging
rs11550230	NP_001627	A	T	AT	benign
rs11550238	NP_001627	V	M	VM	possibly damaging
rs11550241	NP_004065	R	Q	RQ	possibly damaging
rs11550242	NP_060310	R	I	RI	benign
rs11550247	NP_001966	L	M	LM	benign
rs11550252	NP_001966	W	C	WC	probably damaging
rs11550256	NP_006732	Q	R	QR	benign
rs11550259	NP_821080	I	V	IV	benign
rs11550262	NP_001060	D	N	DN	possibly damaging
rs11550263	NP_001060	P	H	PH	probably damaging
rs11550263	NP_821080	P	H	PH	probably damaging
rs11550266	NP_001060	H	N	HN	benign
rs11550267	NP_821080	L	F	LF	benign
rs11550277	NP_005616	D	N	DN	benign
rs11550279	NP_005616	R	G	RG	benign
rs11550281	NP_005616	P	H	PH	probably damaging
rs11550282	NP_005616	P	T	PT	possibly damaging
rs11550299	NP_569710	Q	H	QH	benign
rs11550299	NP_005691	Q	H	QH	benign
rs11550300	NP_569710	V	L	VL	benign
rs11550300	NP_005691	V	L	VL	benign
rs11550303	NP_005691	A	T	AT	benign
rs11550304	NP_057158	V	L	VL	benign
rs11550324	NP_005792	R	K	RK	benign
rs11550333	NP_056371	K	E	KE	possibly damaging
rs11550349	NP_056464	M	I	MI	benign
rs11550350	XP_371284	S	G	SG	benign
rs11550353	NP_006238	K	N	KN	possibly damaging
rs11550374	NP_006835	H	R	HR	probably damaging
rs11550377	NP_059447	V	A	VA	benign
rs11550380	NP_004069	G	C	GC	probably damaging
rs11550382	NP_004069	P	A	PA	benign
rs11550385	XP_088331	A	S	AS	benign
rs11550390	NP_067050	E	K	EK	benign

rs11550399	NP_067050	F	S	FS	probably damaging
rs11550400	NP_057560	H	Y	HY	possibly damaging
rs11550402	NP_057560	Q	K	QK	possibly damaging
rs11550441	NP_004805	V	A	VA	benign
rs11550444	NP_002785	V	F	VF	benign
rs11550454	NP_001335	L	P	LP	possibly damaging
rs11550455	NP_001335	S	L	SL	possibly damaging
rs11550462	NP_060676	L	S	LS	possibly damaging
rs11550472	NP_612815	L	P	LP	possibly damaging
rs11550473	NP_001182	A	T	AT	benign
rs11550473	NP_612815	A	T	AT	benign
rs11550488	NP_066960	L	I	LI	benign
rs11550501	NP_061153	R	C	RC	probably damaging
rs11550504	NP_061153	V	A	VA	possibly damaging
rs11550508	NP_003784	Q	R	QR	benign
rs11550513	NP_060308	Q	L	QL	possibly damaging
rs11550519	XP_371954	S	I	SI	possibly damaging
rs11550526	NP_001008	H	P	HP	probably damaging
rs11550531	NP_060299	L	R	LR	possibly damaging
rs11550540	NP_291028	T	A	TA	benign
rs11550545	NP_061828	L	F	LF	benign
rs11550548	NP_061828	A	V	AV	possibly damaging
rs11550554	NP_071504	P	R	PR	probably damaging
rs11550554	NP_000911	P	R	PR	probably damaging
rs11550569	NP_944492	T	R	TR	possibly damaging
rs11550569	NP_005715	T	R	TR	possibly damaging
rs11550570	NP_005715	G	R	GR	possibly damaging
rs11550570	NP_944492	G	R	GR	probably damaging
rs11550571	NP_944492	S	C	SC	possibly damaging
rs11550571	NP_005715	S	C	SC	possibly damaging
rs11550578	NP_005611	K	E	KE	possibly damaging
rs11550589	NP_055940	T	I	TI	possibly damaging
rs11550590	NP_000466	Q	L	QL	possibly damaging
rs11550597	NP_001651	V	A	VA	benign
rs11550605	NP_000844	T	P	TP	possibly damaging
rs11550612	NP_004095	A	V	AV	benign
rs11550617	NP_065170	S	Y	SY	possibly damaging
rs11550636	NP_055199	R	C	RC	possibly damaging
rs11550637	NP_055199	F	L	FL	probably damaging
rs11550653	NP_002453	H	R	HR	probably damaging
rs11550661	NP_542174	A	T	AT	benign
rs11550663	NP_599026	S	N	SN	benign
rs11550663	NP_056441	S	N	SN	benign
rs11550682	NP_612462	D	Y	DY	probably damaging
rs11550683	NP_003970	C	F	CF	probably damaging
rs11550690	NP_003263	R	H	RH	possibly damaging

rs11550697	NP_037499	E	G	EG	possibly damaging
rs11550699	NP_079478	K	R	KR	benign
rs11550700	NP_079478	D	Y	DY	probably damaging
rs11550707	NP_003370	P	L	PL	probably damaging
rs11550711	NP_005847	M	L	ML	benign
rs11550723	NP_002961	F	L	FL	benign
rs11550737	NP_001816	L	M	LM	benign
rs11550738	NP_004060	C	S	CS	benign
rs11550766	NP_612142	R	S	RS	possibly damaging
rs11550777	NP_114427	P	L	PL	probably damaging
rs11550792	NP_001393	A	V	AV	benign
rs11550797	NP_001393	S	I	SI	benign
rs11550816	NP_001393	D	Y	DY	probably damaging
rs11550827	NP_001393	T	N	TN	benign
rs11550874	NP_002267	G	V	GV	benign
rs11550877	NP_002267	T	I	TI	possibly damaging
rs11550878	NP_002267	S	F	SF	possibly damaging
rs11550879	NP_002267	A	S	AS	benign
rs11550880	NP_002267	L	P	LP	probably damaging
rs11550887	NP_003204	P	S	PS	benign
rs11550887	NP_958849	P	S	PS	benign
rs11550887	NP_958851	P	S	PS	benign
rs11550894	NP_003895	W	G	WG	probably damaging
rs11550897	NP_987095	S	C	SC	benign
rs11550900	NP_663781	H	N	HN	probably damaging
rs11550908	NP_689752	D	G	DG	possibly damaging
rs11550922	NP_612372	A	V	AV	benign
rs11550924	NP_055162	S	F	SF	possibly damaging
rs11550924	NP_997278	S	F	SF	possibly damaging
rs11550931	NP_057305	P	T	PT	probably damaging
rs11550948	NP_542170	S	N	SN	benign
rs11550963	NP_003007	R	G	RG	probably damaging
rs11550972	NP_055759	P	L	PL	possibly damaging
rs11550992	NP_789776	T	A	TA	benign
rs11550993	NP_005157	G	E	GE	possibly damaging
rs11550995	NP_005157	R	H	RH	benign
rs11550996	NP_005157	P	R	PR	probably damaging
rs11550998	NP_005157	R	Q	RQ	benign
rs11550999	NP_005157	G	R	GR	possibly damaging
rs11551001	NP_005157	P	H	PH	probably damaging
rs11551011	NP_004784	L	M	LM	benign
rs11551012	NP_004784	E	Q	EQ	benign
rs11551014	NP_004784	N	D	ND	benign
rs11551017	NP_004784	K	Q	KQ	benign
rs11551021	NP_003086	W	R	WR	probably damaging
rs11551037	NP_872628	D	V	DV	probably damaging

rs11551037	NP_079150	D	V	DV	probably damaging
rs11551058	NP_005947	G	W	GW	probably damaging
rs11551084	XP_497119	R	L	RL	possibly damaging
rs11551093	NP_064555	P	L	PL	probably damaging
rs11551099	NP_056347	F	S	FS	probably damaging
rs11551111	NP_055323	N	D	ND	benign
rs11551112	NP_055323	T	I	TI	possibly damaging
rs11551125	NP_690601	V	L	VL	benign
rs11551126	NP_690601	S	F	SF	probably damaging
rs11551140	NP_817092	T	A	TA	possibly damaging
rs11551144	NP_004498	M	V	MV	possibly damaging
rs11551150	NP_005667	P	L	PL	possibly damaging
rs11551150	NP_690595	P	L	PL	possibly damaging
rs11551151	NP_005667	T	A	TA	benign
rs11551151	NP_690595	T	A	TA	benign
rs11551157	NP_001645	S	F	SF	possibly damaging
rs11551165	NP_003742	A	S	AS	benign
rs11551165	NP_874371	A	S	AS	benign
rs11551171	NP_003742	S	L	SL	benign
rs11551171	NP_874371	S	L	SL	benign
rs11551172	NP_004194	V	A	VA	benign
rs11551175	NP_004806	T	A	TA	benign
rs11551178	NP_003730	A	S	AS	benign
rs11551179	NP_057246	S	N	SN	benign
rs11551204	NP_055277	R	K	RK	benign
rs11551208	NP_055478	F	L	FL	benign
rs11551209	NP_055478	L	F	LF	benign
rs11551216	NP_036350	V	L	VL	benign
rs11551216	NP_004507	V	L	VL	benign
rs11551216	NP_703194	V	L	VL	benign
rs11551219	NP_064515	Q	H	QH	benign
rs11551220	NP_064515	T	K	TK	benign
rs11551230	NP_000724	G	V	GV	benign
rs11551240	NP_073573	I	T	IT	possibly damaging
rs11551241	NP_064508	A	S	AS	benign
rs11551245	NP_473451	P	L	PL	probably damaging
rs11551247	NP_073581	L	S	LS	benign
rs11551249	NP_006375	L	F	LF	benign
rs11551250	NP_006375	I	T	IT	possibly damaging
rs11551251	NP_006375	G	V	GV	benign
rs11551259	NP_690875	K	R	KR	benign
rs11551259	NP_997011	K	R	KR	benign
rs11551260	NP_000157	A	G	AG	possibly damaging
rs11551267	NP_653262	T	M	TM	benign
rs11551268	NP_056170	F	L	FL	possibly damaging
rs11551275	NP_055994	E	D	ED	benign

rs11551302	NP_079472	V	A	VA	benign
rs11551322	NP_003378	P	L	PL	possibly damaging
rs11551330	NP_079543	V	I	VI	benign
rs11551345	NP_955472	L	W	LW	possibly damaging
rs11551347	NP_955472	R	G	RG	possibly damaging
rs11551365	NP_663723	Q	R	QR	benign
rs11551382	XP_291763	E	G	EG	possibly damaging
rs11551383	NP_057175	C	S	CS	probably damaging
rs11551387	NP_057175	N	S	NS	benign
rs11551416	NP_002112	T	I	TI	possibly damaging
rs11551421	NP_002112	V	M	VM	benign
rs11551426	NP_056326	K	E	KE	benign
rs11551432	NP_001734	M	I	MI	benign
rs11551442	NP_001734	Q	R	QR	probably damaging
rs11551456	NP_001734	I	V	IV	benign
rs11551457	NP_001734	D	G	DG	probably damaging
rs11551458	NP_001734	S	P	SP	probably damaging
rs11551472	NP_000984	E	D	ED	benign
rs11551484	NP_000984	E	G	EG	probably damaging
rs11551488	NP_000984	G	V	GV	benign
rs11551519	NP_660305	R	H	RH	benign
rs11551520	XP_496355	A	V	AV	benign
rs11551526	NP_954654	A	V	AV	possibly damaging
rs11551526	NP_002511	A	V	AV	possibly damaging
rs11551576	NP_954654	M	V	MV	possibly damaging
rs11551576	NP_002511	M	V	MV	possibly damaging
rs11551598	NP_694881	F	L	FL	probably damaging
rs11551598	NP_006588	F	L	FL	probably damaging
rs11551599	NP_694881	T	A	TA	benign
rs11551599	NP_006588	T	A	TA	probably damaging
rs11551602	NP_006588	D	Y	DY	benign
rs11551602	NP_694881	D	Y	DY	probably damaging
rs11551603	NP_694881	A	V	AV	benign
rs11551603	NP_006588	A	V	AV	benign
rs11551604	NP_694881	R	C	RC	benign
rs11551604	NP_006588	R	C	RC	benign
rs11551605	NP_694881	R	C	RC	benign
rs11551605	NP_006588	R	C	RC	probably damaging
rs11551606	NP_694881	T	I	TI	probably damaging
rs11551606	NP_006588	T	I	TI	probably damaging
rs11551608	NP_694881	P	T	PT	probably damaging
rs11551608	NP_006588	P	T	PT	probably damaging
rs11551619	NP_055385	Q	R	QR	possibly damaging
rs11551623	NP_954657	A	V	AV	possibly damaging
rs11551623	NP_000215	A	V	AV	possibly damaging
rs11551624	NP_954657	G	R	GR	probably damaging

rs11551624	NP_000215	G	R	GR	probably damaging
rs11551629	NP_954657	V	F	VF	possibly damaging
rs11551629	NP_000215	V	F	VF	possibly damaging
rs11551633	NP_954657	R	L	RL	probably damaging
rs11551633	NP_000215	R	L	RL	probably damaging
rs11551634	NP_954657	A	V	AV	benign
rs11551634	NP_000215	A	V	AV	benign
rs11551635	NP_954657	L	F	LF	benign
rs11551635	NP_000215	L	F	LF	benign
rs11551637	NP_954657	E	D	ED	benign
rs11551637	NP_000215	E	D	ED	benign
rs11551638	NP_954657	R	W	RW	benign
rs11551638	NP_000215	R	W	RW	benign
rs11551641	NP_954657	R	H	RH	possibly damaging
rs11551641	NP_000215	R	H	RH	possibly damaging
rs11551642	NP_954657	A	G	AG	benign
rs11551642	NP_000215	A	G	AG	benign
rs11551654	NP_060142	D	G	DG	benign
rs11551661	NP_620162	I	V	IV	benign
rs11551664	NP_077718	R	C	RC	probably damaging
rs11551666	NP_077718	A	G	AG	benign
rs11551671	NP_036558	A	V	AV	benign
rs11551672	NP_036558	T	I	TI	benign
rs11551673	NP_036558	G	R	GR	probably damaging
rs11551676	NP_000929	E	K	EK	possibly damaging
rs11551682	NP_004314	T	I	TI	possibly damaging
rs11551689	NP_057725	R	H	RH	possibly damaging
rs11551691	NP_612427	P	L	PL	possibly damaging
rs11551698	NP_001203	A	P	AP	benign
rs11551699	NP_001203	S	T	ST	benign
rs11551705	NP_004578	E	D	ED	benign
rs11551709	NP_060181	K	E	KE	benign
rs11551727	XP_208356	P	T	PT	probably damaging
rs11551729	NP_001880	P	S	PS	probably damaging
rs11551730	NP_077271	L	I	LI	benign
rs11551737	NP_036418	P	H	PH	probably damaging
rs11551749	NP_000517	G	V	GV	benign
rs11551750	NP_000517	S	F	SF	possibly damaging
rs11551751	NP_000517	S	F	SF	benign
rs11551755	NP_000517	E	K	EK	probably damaging
rs11551760	NP_000517	V	I	VI	benign
rs11551762	NP_085096	A	S	AS	benign
rs11551763	NP_542781	R	I	RI	possibly damaging
rs11551764	NP_115501	G	D	GD	benign
rs11551765	NP_115501	S	A	SA	benign
rs11551768	NP_443097	S	C	SC	benign

rs11551770	NP_963853	S	I	SI	possibly damaging
rs11551779	NP_002780	A	P	AP	benign
rs11551782	NP_002780	E	G	EG	benign
rs11551798	NP_057125	N	K	NK	possibly damaging
rs11551802	NP_073594	I	R	IR	possibly damaging
rs11551804	NP_002494	S	L	SL	benign
rs11551827	NP_006339	P	L	PL	probably damaging
rs11551827	NP_859422	P	L	PL	probably damaging
rs11551834	NP_067039	Q	H	QH	possibly damaging
rs11551835	NP_068656	E	G	EG	benign
rs11551835	NP_000500	E	G	EG	benign
rs11551840	NP_068656	F	L	FL	probably damaging
rs11551840	NP_000500	F	L	FL	probably damaging
rs11551842	NP_068656	F	L	FL	benign
rs11551842	NP_000500	F	L	FL	benign
rs11551849	NP_068656	A	V	AV	benign
rs11551849	NP_000500	A	V	AV	benign
rs11551850	NP_068656	I	M	IM	benign
rs11551850	NP_000500	I	M	IM	benign
rs11551852	NP_068656	L	P	LP	possibly damaging
rs11551852	NP_000500	L	P	LP	possibly damaging
rs11551856	NP_857635	S	I	SI	benign
rs11551856	NP_857634	S	I	SI	possibly damaging
rs11551856	NP_036226	S	I	SI	possibly damaging
rs11551857	NP_857634	K	N	KN	benign
rs11551857	NP_857635	K	N	KN	benign
rs11551857	NP_036226	K	N	KN	possibly damaging
rs11551858	NP_857634	G	R	GR	benign
rs11551858	NP_036226	G	R	GR	benign
rs11551867	NP_003042	S	G	SG	possibly damaging
rs11551892	NP_006352	A	P	AP	benign
rs11551896	NP_001719	K	N	KN	benign
rs11551896	NP_940991	K	N	KN	possibly damaging
rs11551914	NP_620279	P	S	PS	probably damaging
rs11551914	NP_000147	P	S	PS	probably damaging
rs11551941	NP_958833	S	L	SL	benign
rs11551944	NP_958833	A	E	AE	benign
rs11551945	NP_958833	P	R	PR	probably damaging
rs11551951	XP_017966	S	Y	SY	possibly damaging
rs11551952	XP_017966	S	L	SL	probably damaging
rs11551958	NP_001928	Y	N	YN	probably damaging
rs11551960	NP_000033	S	F	SF	probably damaging
rs11551966	NP_849158	H	R	HR	benign
rs11551969	NP_005763	A	T	AT	benign
rs11551977	NP_068814	A	V	AV	benign
rs11551980	NP_068814	D	G	DG	probably damaging



rs11551981	NP_068814	R	Q	RQ	benign
rs11551983	NP_055070	Q	E	QE	benign
rs11552000	NP_000837	M	T	MT	probably damaging
rs11552000	NP_665683	M	T	MT	probably damaging
rs11552006	NP_219494	L	F	LF	benign
rs11552012	NP_005461	L	I	LI	benign
rs11552016	NP_057001	R	G	RG	probably damaging
rs11552025	NP_598011	S	L	SL	benign
rs11552025	NP_598012	S	L	SL	benign
rs11552025	NP_598010	S	L	SL	benign
rs11552025	NP_598013	S	L	SL	possibly damaging
rs11552036	NP_877577	I	T	IT	possibly damaging
rs11552039	NP_005907	Q	P	QP	possibly damaging
rs11552044	NP_997223	H	N	HN	possibly damaging
rs11552048	NP_036321	Q	K	QK	benign
rs11552048	NP_722452	Q	K	QK	benign
rs11552048	NP_722454	Q	K	QK	benign
rs11552048	NP_722453	Q	K	QK	benign
rs11552049	NP_722454	P	Q	PQ	benign
rs11552049	NP_619584	P	Q	PQ	benign
rs11552049	NP_036321	P	Q	PQ	possibly damaging
rs11552049	NP_722452	P	Q	PQ	possibly damaging
rs11552049	NP_722453	P	Q	PQ	possibly damaging
rs11552066	NP_004919	Q	R	QR	possibly damaging
rs11552070	NP_004919	L	M	LM	benign
rs11552071	NP_002783	E	K	EK	benign
rs11552091	NP_060884	Q	K	QK	benign
rs11552103	NP_005808	K	N	KN	benign
rs11552104	NP_005808	L	I	LI	benign
rs11552109	NP_002434	Y	C	YC	probably damaging
rs11552118	NP_079120	Q	K	QK	possibly damaging
rs11552119	NP_112494	N	D	ND	benign
rs11552121	XP_097886	A	V	AV	benign
rs11552122	XP_097886	V	A	VA	benign
rs11552123	XP_097886	R	H	RH	benign
rs11552124	NP_666500	D	V	DV	possibly damaging
rs11552124	NP_666499	D	V	DV	possibly damaging
rs11552128	NP_000598	V	A	VA	benign
rs11552128	NP_000599	V	A	VA	benign
rs11552130	NP_000598	F	L	FL	probably damaging
rs11552145	NP_002582	E	K	EK	benign
rs11552146	NP_002582	D	N	DN	benign
rs11552179	NP_000945	R	Q	RQ	benign
rs11552182	NP_000945	T	A	TA	possibly damaging
rs11552185	NP_004537	R	G	RG	probably damaging
rs11552197	NP_001736	G	S	GS	benign

rs11552198	NP_001736	T	A	TA	benign
rs11552214	NP_060134	R	G	RG	probably damaging
rs11552215	NP_060134	A	T	AT	benign
rs11552226	NP_038471	L	M	LM	benign
rs11552228	NP_038471	A	V	AV	benign
rs11552244	NP_859057	I	V	IV	benign
rs11552246	NP_060573	S	Y	SY	possibly damaging
rs11552255	NP_612469	Q	K	QK	benign
rs11552267	NP_996896	T	R	TR	possibly damaging
rs11552267	NP_009039	T	R	TR	probably damaging
rs11552278	NP_056425	R	K	RK	possibly damaging
rs11552279	NP_001688	I	M	IM	benign
rs11552285	NP_005889	R	H	RH	possibly damaging
rs11552285	NP_976240	R	H	RH	possibly damaging
rs11552291	NP_001143	K	E	KE	benign
rs11552304	NP_079437	P	L	PL	benign
rs11552305	NP_079437	S	R	SR	possibly damaging
rs11552307	NP_079437	I	L	IL	benign
rs11552310	NP_008859	N	I	NI	probably damaging
rs11552321	NP_057048	E	K	EK	benign
rs11552329	NP_116228	A	T	AT	benign
rs11552334	NP_002045	Y	H	YH	possibly damaging
rs11552362	NP_003632	L	V	LV	benign
rs11552366	NP_003632	I	T	IT	possibly damaging
rs11552370	NP_060096	R	H	RH	possibly damaging
rs11552373	NP_060096	R	H	RH	possibly damaging
rs11552376	NP_113631	P	L	PL	probably damaging
rs11552377	NP_113631	V	I	VI	benign
rs11552382	NP_067653	R	Q	RQ	possibly damaging
rs11552384	NP_002970	L	F	LF	benign
rs11552386	NP_002970	N	S	NS	possibly damaging
rs11552387	NP_002970	A	T	AT	benign
rs11552388	NP_002970	K	R	KR	benign
rs11552407	NP_066553	S	R	SR	benign
rs11552410	NP_114172	R	W	RW	probably damaging
rs11552412	NP_057334	G	V	GV	benign
rs11552412	NP_963294	G	V	GV	benign
rs11552412	NP_963832	G	V	GV	benign
rs11552412	NP_963835	G	V	GV	benign
rs11552412	NP_963834	G	V	GV	probably damaging
rs11552417	NP_006013	L	W	LW	benign
rs11552431	NP_076425	L	I	LI	benign
rs11552432	NP_076425	E	Q	EQ	benign
rs11552438	NP_005924	S	I	SI	benign
rs11552439	NP_005924	R	K	RK	benign
rs11552441	NP_758844	I	M	IM	benign

rs11552445	NP_036203	R	G	RG	possibly damaging
rs11552447	NP_073747	P	H	PH	probably damaging
rs11552448	NP_073747	L	M	LM	benign
rs11552456	NP_055101	F	L	FL	probably damaging
rs11552472	NP_938083	Q	H	QH	benign
rs11552492	NP_003286	S	I	SI	probably damaging
rs11552498	XP_497072	Q	R	QR	benign
rs11552499	NP_003286	P	R	PR	benign
rs11552502	XP_497072	Q	K	QK	benign
rs11552521	NP_000173	D	G	DG	probably damaging
rs11552530	NP_005679	R	W	RW	probably damaging
rs11552538	XP_371108	T	A	TA	benign
rs11552542	NP_005804	Q	H	QH	possibly damaging
rs11552550	NP_003008	R	L	RL	probably damaging
rs11552560	NP_005755	T	M	TM	benign
rs11552561	NP_005755	V	I	VI	benign
rs11552580	NP_056495	H	Q	HQ	benign
rs11552587	NP_000867	Q	R	QR	possibly damaging
rs11552601	NP_955400	R	W	RW	possibly damaging
rs11552601	NP_056453	R	W	RW	possibly damaging
rs11552618	XP_370557	A	S	AS	benign
rs11552618	XP_495809	A	S	AS	benign
rs11552632	NP_001407	Q	L	QL	benign
rs11552636	NP_001407	S	A	SA	benign
rs11552639	NP_001407	K	M	KM	possibly damaging
rs11552666	NP_004995	E	K	EK	benign
rs11552667	NP_004995	S	F	SF	possibly damaging
rs11552668	NP_982291	V	A	VA	benign
rs11552668	NP_982292	V	A	VA	benign
rs11552668	NP_689542	V	A	VA	possibly damaging
rs11552672	NP_003135	A	T	AT	benign
rs11552681	NP_002706	V	A	VA	probably damaging
rs11552686	NP_005818	L	P	LP	benign
rs11552688	NP_005818	R	H	RH	benign
rs11552694	NP_000678	K	R	KR	benign
rs11552700	NP_000678	L	I	LI	benign
rs11552703	NP_112740	N	Y	NY	benign
rs11552706	XP_292778	A	T	AT	benign
rs11552708	NP_742084	G	R	GR	benign
rs11552708	NP_742085	G	R	GR	benign
rs11552708	NP_003799	G	R	GR	benign
rs11552709	NP_742084	V	L	VL	benign
rs11552709	NP_003799	V	L	VL	benign
rs11552709	NP_742086	V	L	VL	benign
rs11552719	NP_003759	R	S	RS	benign
rs11552728	NP_036400	L	P	LP	possibly damaging

rs11552729	NP_036400	R	L	RL	possibly damaging
rs11552731	NP_036400	S	Y	SY	possibly damaging
rs11552752	NP_940798	L	I	LI	benign
rs11552757	NP_001655	A	V	AV	probably damaging
rs11552761	NP_001655	G	E	GE	probably damaging
rs11552762	NP_001655	E	D	ED	benign
rs11552775	NP_116290	L	V	LV	benign
rs11552778	NP_001751	T	S	TS	benign
rs11552789	NP_001559	E	G	EG	possibly damaging
rs11552793	NP_001559	I	T	IT	probably damaging
rs11552805	NP_005767	P	S	PS	probably damaging
rs11552822	NP_478102	R	L	RL	possibly damaging
rs11552822	NP_000068	D	Y	DY	probably damaging
rs11552823	NP_000068	P	L	PL	probably damaging
rs11552835	NP_001012	R	S	RS	possibly damaging
rs11552839	NP_001012	K	R	KR	benign
rs11552843	NP_001244	A	T	AT	benign
rs11552864	NP_957715	G	S	GS	possibly damaging
rs11552864	NP_056651	G	S	GS	possibly damaging
rs11552867	NP_113671	L	P	LP	benign
rs11552887	NP_057049	L	M	LM	benign
rs11552889	NP_055785	E	G	EG	possibly damaging
rs11552893	NP_114110	S	T	ST	benign
rs11552901	NP_115602	F	S	FS	possibly damaging
rs11552902	NP_115602	G	V	GV	benign
rs11552915	NP_006752	L	V	LV	possibly damaging
rs11552917	NP_006752	R	K	RK	probably damaging
rs11552922	NP_775186	R	W	RW	probably damaging
rs11552922	NP_775187	R	W	RW	probably damaging
rs11552922	NP_004546	R	W	RW	probably damaging
rs11552922	NP_775188	R	W	RW	probably damaging
rs11552926	NP_055107	P	A	PA	benign
rs11552937	NP_542189	M	I	MI	benign
rs11552939	NP_031379	S	G	SG	possibly damaging
rs11552953	NP_001898	T	I	TI	benign
rs11552966	NP_004539	V	L	VL	benign
rs11552969	NP_077306	P	L	PL	probably damaging
rs11552974	NP_076423	S	P	SP	possibly damaging
rs11552989	NP_734467	R	H	RH	benign
rs11553017	XP_498423	P	A	PA	probably damaging
rs11553018	XP_498423	P	H	PH	probably damaging
rs11553019	XP_498423	P	H	PH	probably damaging
rs11553022	XP_377498	I	K	IK	probably damaging
rs11553023	NP_110422	P	H	PH	probably damaging
rs11553024	NP_778230	R	C	RC	probably damaging
rs11553032	NP_004039	R	C	RC	probably damaging

rs11553035	NP_004039	P	S	PS	probably damaging
rs11553037	NP_004039	D	N	DN	possibly damaging
rs11553038	NP_004039	F	L	FL	possibly damaging
rs11553042	NP_004039	E	K	EK	possibly damaging
rs11553045	NP_004039	P	H	PH	probably damaging
rs11553049	NP_004039	K	R	KR	benign
rs11553069	NP_065199	R	W	RW	possibly damaging
rs11553075	NP_115689	Q	R	QR	benign
rs11553076	NP_115689	G	A	GA	possibly damaging
rs11553077	NP_115689	K	R	KR	benign
rs11553079	NP_005935	Q	K	QK	benign
rs11553081	NP_064575	D	E	DE	benign
rs11553086	NP_079178	A	T	AT	benign
rs11553094	NP_476515	V	M	VM	benign
rs11553094	NP_004804	V	M	VM	benign
rs11553106	NP_908932	A	V	AV	benign
rs11553106	NP_000025	A	V	AV	benign
rs11553107	NP_908930	E	Q	EQ	possibly damaging
rs11553107	NP_908932	E	Q	EQ	possibly damaging
rs11553107	NP_000025	E	Q	EQ	possibly damaging
rs11553108	NP_908930	G	V	GV	probably damaging
rs11553108	NP_908932	G	V	GV	probably damaging
rs11553108	NP_000025	G	V	GV	probably damaging
rs11553116	NP_908930	E	K	EK	benign
rs11553116	NP_908932	E	K	EK	benign
rs11553116	NP_000025	E	K	EK	benign
rs11553122	NP_689604	P	Q	PQ	probably damaging
rs11553133	NP_004366	L	I	LI	benign
rs11553134	NP_004366	P	Q	PQ	possibly damaging
rs11553137	NP_004302	P	R	PR	probably damaging
rs11553139	NP_036585	V	A	VA	benign
rs11553154	NP_660287	S	F	SF	benign
rs11553158	NP_003133	E	V	EV	probably damaging
rs11553169	NP_076947	A	V	AV	benign
rs11553171	NP_003075	C	Y	CY	probably damaging
rs11553172	NP_001551	W	C	WC	probably damaging
rs11553179	NP_078925	G	V	GV	probably damaging
rs11553189	NP_036601	R	P	RP	probably damaging
rs11553190	NP_036601	E	G	EG	probably damaging
rs11553205	NP_000137	S	F	SF	possibly damaging
rs11553212	NP_000137	L	F	LF	benign
rs11553214	NP_000137	H	N	HN	possibly damaging
rs11553216	NP_000137	H	N	HN	probably damaging
rs11553219	NP_000137	A	G	AG	benign
rs11553225	NP_000137	E	Q	EQ	benign
rs11553236	NP_000137	L	V	LV	benign

rs11553260	NP_000137	K	R	KR	probably damaging
rs11553262	NP_000137	S	I	SI	possibly damaging
rs11553266	NP_000137	D	Y	DY	possibly damaging
rs11553282	NP_001679	A	T	AT	benign
rs11553285	NP_001679	I	V	IV	benign
rs11553294	NP_061127	C	W	CW	probably damaging
rs11553309	NP_000087	E	K	EK	benign
rs11553327	NP_116024	S	Y	SY	possibly damaging
rs11553328	NP_116024	P	T	PT	probably damaging
rs11553329	NP_254275	P	S	PS	benign
rs11553329	NP_056933	P	S	PS	benign
rs11553330	XP_088367	A	T	AT	benign
rs11553338	NP_003482	A	S	AS	benign
rs11553341	NP_778203	E	G	EG	probably damaging
rs11553341	NP_001834	E	G	EG	probably damaging
rs11553344	NP_005756	F	L	FL	possibly damaging
rs11553346	NP_005756	P	A	PA	probably damaging
rs11553349	NP_005981	C	G	CG	probably damaging
rs11553353	NP_005981	V	L	VL	benign
rs11553354	NP_665737	R	Q	RQ	benign
rs11553354	NP_665738	R	Q	RQ	benign
rs11553354	NP_060083	R	Q	RQ	possibly damaging
rs11553357	NP_001317	R	H	RH	possibly damaging
rs11553358	NP_006232	P	Q	PQ	probably damaging
rs11553378	NP_004246	G	R	GR	possibly damaging
rs11553381	NP_116185	P	L	PL	probably damaging
rs11553384	NP_005431	A	G	AG	benign
rs11553401	NP_005006	L	P	LP	possibly damaging
rs11553403	NP_005006	S	P	SP	benign
rs11553404	NP_005006	P	S	PS	probably damaging
rs11553405	NP_005006	V	I	VI	benign
rs11553421	NP_036390	L	M	LM	benign
rs11553441	NP_056518	V	I	VI	benign
rs11553443	NP_056518	K	N	KN	benign
rs11553448	NP_009166	E	Q	EQ	benign
rs11553454	NP_000413	G	A	GA	benign
rs11553455	NP_000413	S	G	SG	benign
rs11553458	NP_000413	S	T	ST	benign
rs11553460	NP_000413	A	T	AT	benign
rs11553464	NP_689692	L	P	LP	possibly damaging
rs11553481	NP_003850	L	P	LP	possibly damaging
rs11553483	NP_003850	R	L	RL	probably damaging
rs11553487	XP_371960	P	S	PS	possibly damaging
rs11553493	NP_387498	K	N	KN	possibly damaging
rs11553498	NP_002038	L	S	LS	possibly damaging
rs11553508	NP_066299	M	T	MT	probably damaging

rs11553508	NP_524148	M	T	MT	probably damaging
rs11553508	NP_524147	M	T	MT	probably damaging
rs11553509	NP_066299	T	I	TI	benign
rs11553509	NP_524148	T	I	TI	benign
rs11553509	NP_524147	T	I	TI	benign
rs11553511	NP_066299	D	G	DG	benign
rs11553511	NP_524148	D	G	DG	benign
rs11553511	NP_524147	D	G	DG	benign
rs11553541	NP_982284	Q	K	QK	benign
rs11553545	NP_078875	D	Y	DY	benign
rs11553548	NP_000265	P	S	PS	benign
rs11553549	NP_000265	S	Y	SY	benign
rs11553551	NP_000265	P	R	PR	probably damaging
rs11553552	NP_000265	G	C	GC	benign
rs11553554	NP_000265	G	D	GD	possibly damaging
rs11553567	NP_775744	L	R	LR	benign
rs11553574	NP_057010	G	E	GE	benign
rs11553592	NP_001922	D	V	DV	probably damaging
rs11553595	NP_001922	Q	R	QR	benign
rs11553608	NP_006383	D	Y	DY	possibly damaging
rs11553614	NP_001316	E	K	EK	benign
rs11553623	NP_037532	P	T	PT	possibly damaging
rs11553623	NP_055189	P	T	PT	possibly damaging
rs11553624	NP_037532	P	S	PS	benign
rs11553624	NP_055189	P	S	PS	benign
rs11553626	NP_005260	R	G	RG	possibly damaging
rs11553633	NP_060282	T	N	TN	benign
rs11553639	NP_063948	E	G	EG	possibly damaging
rs11553642	NP_063948	S	C	SC	benign
rs11553643	NP_063948	R	H	RH	possibly damaging
rs11553646	NP_063948	D	G	DG	possibly damaging
rs11553647	NP_063948	I	F	IF	benign
rs11553649	NP_063948	M	I	MI	benign
rs11553651	NP_067010	S	I	SI	possibly damaging
rs11553652	NP_067010	K	E	KE	possibly damaging
rs11553659	NP_006288	R	H	RH	benign
rs11553661	NP_665862	R	H	RH	possibly damaging
rs11553664	NP_037368	P	R	PR	possibly damaging
rs11553672	NP_000293	K	N	KN	benign
rs11553674	NP_000293	R	W	RW	possibly damaging
rs11553690	NP_003106	A	T	AT	benign
rs11553694	NP_001975	N	K	NK	possibly damaging
rs11553697	NP_114408	Q	R	QR	benign
rs11553706	NP_057143	I	T	IT	probably damaging
rs11553709	NP_002786	D	H	DH	possibly damaging
rs11553713	NP_653228	A	V	AV	benign

rs11553721	NP_055205	N	S	NS	benign
rs11553724	NP_872304	R	Q	RQ	benign
rs11553730	NP_005639	P	H	PH	probably damaging
rs11553743	NP_004291	G	R	GR	benign
rs11553759	NP_004374	V	F	VF	benign
rs11553775	NP_068657	D	N	DN	benign
rs11553775	NP_000499	D	N	DN	benign
rs11553812	NP_000971	R	W	RW	probably damaging
rs11553816	NP_000985	M	V	MV	probably damaging
rs11553817	NP_000985	G	C	GC	benign
rs11553823	NP_000985	K	I	KI	probably damaging
rs11553827	NP_000985	P	H	PH	probably damaging
rs11553838	NP_003507	H	Y	HY	benign
rs11553845	NP_002760	T	A	TA	benign
rs11553847	NP_002760	P	S	PS	benign
rs11553848	NP_002760	F	S	FS	probably damaging
rs11553849	NP_002760	K	E	KE	benign
rs11553866	NP_005557	E	K	EK	benign
rs11553874	NP_005557	G	R	GR	probably damaging
rs11553883	NP_066362	H	D	HD	probably damaging
rs11553886	NP_659547	T	M	TM	benign
rs11553892	NP_000843	L	M	LM	benign
rs11553920	NP_005710	T	A	TA	benign
rs11553925	NP_068752	N	K	NK	benign
rs11553935	NP_006259	P	S	PS	probably damaging
rs11553948	NP_056238	P	H	PH	possibly damaging
rs11553952	NP_001265	I	V	IV	benign
rs11553957	XP_370665	P	Q	PQ	probably damaging
rs11553971	NP_004878	P	H	PH	probably damaging
rs11553974	NP_064730	R	I	RI	possibly damaging
rs11553974	NP_064731	R	I	RI	possibly damaging
rs11553974	NP_064720	R	I	RI	possibly damaging
rs11553989	NP_009035	E	Q	EQ	benign
rs11553990	NP_071888	D	G	DG	possibly damaging
rs11553997	NP_116261	N	K	NK	benign
rs11554011	NP_524144	G	S	GS	benign
rs11554011	NP_524146	G	S	GS	benign
rs11554012	NP_002228	P	H	PH	benign
rs11554039	NP_524575	L	M	LM	benign
rs11554039	NP_005992	L	M	LM	benign
rs11554050	NP_004395	V	F	VF	possibly damaging
rs11554059	NP_002065	R	H	RH	probably damaging
rs11554094	XP_497846	K	Q	KQ	possibly damaging
rs11554096	NP_002558	Q	P	QP	probably damaging
rs11554097	NP_002558	K	R	KR	benign
rs11554101	NP_002558	R	S	RS	probably damaging



rs11554104	NP_001252	A	T	AT	benign
rs11554106	NP_003134	Y	H	YH	benign
rs11554109	NP_003134	G	R	GR	possibly damaging
rs11554111	NP_000275	H	Y	HY	probably damaging
rs11554129	NP_055965	C	S	CS	benign
rs11554138	NP_005887	T	P	TP	probably damaging
rs11554151	XP_209704	V	D	VD	probably damaging
rs11554156	NP_000972	L	F	LF	benign
rs11554159	NP_006323	R	Q	RQ	benign
rs11554163	NP_005618	Q	K	QK	benign
rs11554172	NP_660277	R	H	RH	possibly damaging
rs11554173	NP_722578	P	Q	PQ	possibly damaging
rs11554175	NP_079491	R	L	RL	benign
rs11554198	XP_290506	K	N	KN	benign
rs11554200	XP_290506	K	N	KN	benign
rs11554201	XP_290506	D	G	DG	possibly damaging
rs11554212	NP_061871	R	Q	RQ	benign
rs11554213	NP_839890	D	G	DG	possibly damaging
rs11554213	NP_061871	D	G	DG	possibly damaging
rs11554213	NP_839891	D	G	DG	probably damaging
rs11554215	NP_061119	P	T	PT	possibly damaging
rs11554217	NP_003748	C	R	CR	probably damaging
rs11554219	NP_003748	Q	L	QL	possibly damaging
rs11554220	NP_003748	V	L	VL	benign
rs11554222	NP_003748	H	R	HR	probably damaging
rs11554227	NP_006809	P	L	PL	probably damaging
rs11554228	NP_006809	D	G	DG	possibly damaging
rs11554264	NP_061189	E	Q	EQ	benign
rs11554274	NP_536351	R	H	RH	benign
rs11554274	NP_000507	R	H	RH	benign
rs11554278	NP_536351	L	I	LI	benign
rs11554278	NP_000507	L	I	LI	benign
rs11554279	NP_071432	A	T	AT	benign
rs11554280	NP_002264	D	Y	DY	probably damaging
rs11554290	NP_002515	Q	R	QR	probably damaging
rs11554294	NP_073733	R	L	RL	probably damaging
rs11554308	NP_055551	V	M	VM	benign
rs11554309	NP_055551	F	S	FS	probably damaging
rs11554313	NP_055551	E	K	EK	benign
rs11554317	NP_055551	R	W	RW	probably damaging
rs11554320	NP_055551	E	G	EG	possibly damaging
rs11554322	NP_056050	R	W	RW	probably damaging
rs11554336	NP_064507	D	A	DA	probably damaging
rs11554352	NP_060245	E	K	EK	benign
rs11554353	NP_060245	L	I	LI	benign
rs11554354	NP_060245	S	F	SF	benign

rs11554355	NP_060245	P	R	PR	probably damaging
rs11554362	NP_037519	A	V	AV	benign
rs11554373	NP_004777	P	L	PL	probably damaging
rs11554376	NP_439892	V	L	VL	possibly damaging
rs11554376	NP_001789	V	L	VL	probably damaging
rs11554379	NP_476528	Y	C	YC	probably damaging
rs11554379	NP_057310	Y	C	YC	probably damaging
rs11554380	NP_476528	V	F	VF	possibly damaging
rs11554380	NP_057310	V	F	VF	possibly damaging
rs11554383	NP_002097	V	A	VA	benign
rs11554386	NP_002097	P	T	PT	possibly damaging
rs11554411	NP_653192	Q	K	QK	benign
rs11554413	NP_659421	S	C	SC	benign
rs11554423	NP_000680	G	R	GR	benign
rs11554426	NP_000680	V	A	VA	benign
rs11554428	NP_001664	C	S	CS	benign
rs11554428	NP_597680	C	S	CS	benign
rs11554428	NP_899199	C	S	CS	benign
rs11554434	NP_066972	W	R	WR	probably damaging
rs11554438	NP_000994	D	N	DN	possibly damaging
rs11554439	XP_496612	H	Q	HQ	benign
rs11554441	XP_496612	A	V	AV	benign
rs11554446	XP_496612	P	S	PS	benign
rs11554447	NP_000994	A	P	AP	possibly damaging
rs11554449	NP_000994	A	T	AT	benign
rs11554452	XP_496612	G	V	GV	probably damaging
rs11554456	NP_938408	N	S	NS	benign
rs11554456	NP_057050	N	S	NS	benign
rs11554462	NP_072049	Y	H	YH	benign
rs11554470	NP_001089	M	R	MR	probably damaging
rs11554484	NP_002264	R	W	RW	benign
rs11554491	NP_002264	S	I	SI	benign
rs11554494	NP_002264	I	T	IT	probably damaging
rs11554495	NP_002264	G	C	GC	probably damaging
rs11554499	NP_002264	E	G	EG	probably damaging
rs11554500	NP_002264	S	F	SF	probably damaging
rs11554504	NP_055955	R	W	RW	probably damaging
rs11554511	NP_076990	L	V	LV	benign
rs11554541	NP_002503	G	V	GV	probably damaging
rs11554560	NP_037506	V	M	VM	benign
rs11554564	NP_005648	G	W	GW	possibly damaging
rs11554580	NP_005535	G	R	GR	possibly damaging
rs11554608	NP_116202	P	T	PT	possibly damaging
rs11554617	NP_444278	A	V	AV	benign
rs11554646	NP_001762	P	L	PL	probably damaging
rs11554650	NP_056474	T	M	TM	possibly damaging

rs11554654	NP_056474	L	F	LF	benign
rs11554658	NP_066999	M	V	MV	possibly damaging
rs11554661	NP_066954	L	I	LI	benign
rs11554661	NP_821067	L	I	LI	benign
rs11554661	NP_821068	L	I	LI	benign
rs11554661	NP_821070	L	I	LI	benign
rs11554668	NP_001840	A	V	AV	benign
rs11554675	NP_004418	E	Q	EQ	benign
rs11554675	NP_932157	E	Q	EQ	benign
rs11554687	NP_002083	P	S	PS	possibly damaging
rs11554688	NP_002083	A	T	AT	benign
rs11554691	NP_005576	W	C	WC	probably damaging
rs11554714	NP_003303	P	A	PA	probably damaging
rs11554724	NP_715638	Q	K	QK	benign
rs11554732	NP_006748	Y	D	YD	probably damaging
rs11554754	NP_974223	G	V	GV	possibly damaging
rs11554758	NP_003836	E	Q	EQ	benign
rs11554765	NP_054722	S	F	SF	benign
rs11554779	NP_938023	G	E	GE	possibly damaging
rs11554790	NP_060346	D	Y	DY	probably damaging
rs11554790	NP_919442	D	Y	DY	probably damaging
rs11554798	NP_003357	Q	R	QR	benign
rs11554895	NP_009207	E	K	EK	benign
rs11554895	NP_057671	E	K	EK	benign
rs11554898	NP_112200	A	V	AV	benign
rs11554900	NP_054817	E	G	EG	possibly damaging
rs11554900	NP_006784	E	G	EG	possibly damaging
rs11554902	NP_054817	R	Q	RQ	benign
rs11554902	NP_006784	R	Q	RQ	possibly damaging
rs11554910	NP_054817	Y	C	YC	possibly damaging
rs11554910	NP_006784	Y	C	YC	possibly damaging
rs11554916	NP_054817	D	G	DG	probably damaging
rs11554916	NP_006784	D	G	DG	probably damaging
rs11554917	NP_054817	A	V	AV	benign
rs11554917	NP_006784	A	V	AV	possibly damaging
rs11554918	NP_054817	V	I	VI	benign
rs11554918	NP_006784	V	I	VI	benign
rs11554919	NP_054817	A	V	AV	benign
rs11554919	NP_006784	A	V	AV	benign
rs11554920	NP_054817	T	A	TA	benign
rs11554920	NP_006784	T	A	TA	benign
rs11554936	NP_000970	A	V	AV	benign
rs11554939	NP_000970	L	I	LI	benign
rs11554942	NP_000970	N	D	ND	benign
rs11554943	NP_000970	V	M	VM	possibly damaging
rs11554958	NP_002134	E	D	ED	benign

rs11554977	NP_000682	S	P	SP	probably damaging
rs11554978	NP_000682	S	I	SI	probably damaging
rs11554987	NP_115909	N	D	ND	possibly damaging
rs11555002	NP_644808	G	C	GC	probably damaging
rs11555015	NP_002769	A	T	AT	benign
rs11555030	NP_001271	D	H	DH	benign
rs11555031	NP_001271	T	A	TA	possibly damaging
rs11555033	NP_001271	A	P	AP	possibly damaging
rs11555037	NP_060553	N	S	NS	benign
rs11555038	NP_060553	P	L	PL	probably damaging
rs11555043	NP_001900	T	I	TI	probably damaging
rs11555044	NP_001900	P	L	PL	probably damaging
rs11555045	NP_001900	F	L	FL	probably damaging
rs11555055	NP_998784	N	D	ND	benign
rs11555055	NP_998785	N	D	ND	benign
rs11555063	NP_001001481	P	A	PA	probably damaging
rs11555063	NP_060769	P	A	PA	probably damaging
rs11555064	NP_001001481	F	L	FL	probably damaging
rs11555064	NP_060769	F	L	FL	probably damaging
rs11555066	NP_057714	L	P	LP	possibly damaging
rs11555090	NP_005095	E	D	ED	benign
rs11555096	NP_000128	R	W	RW	probably damaging
rs11555100	NP_005908	K	E	KE	benign
rs11555102	NP_005908	P	H	PH	probably damaging
rs11555108	NP_068823	P	H	PH	possibly damaging
rs11555108	NP_954595	P	H	PH	possibly damaging
rs11555108	NP_071887	P	H	PH	probably damaging
rs11555108	NP_954673	P	H	PH	probably damaging
rs11555108	NP_003340	P	H	PH	probably damaging
rs11555126	NP_060077	E	D	ED	benign
rs11555140	NP_008952	I	M	IM	benign
rs11555167	NP_976086	R	G	RG	possibly damaging
rs11555167	NP_004252	R	G	RG	probably damaging
rs11555170	NP_004252	S	G	SG	benign
rs11555170	NP_976086	S	G	SG	benign
rs11555171	NP_004252	Q	R	QR	benign
rs11555171	NP_976086	Q	R	QR	benign
rs11555179	NP_002076	A	V	AV	benign
rs11555193	NP_005591	A	P	AP	benign
rs11555194	NP_055493	D	E	DE	benign
rs11555213	NP_036277	H	Y	HY	benign
rs11555215	NP_000894	R	P	RP	probably damaging
rs11555217	NP_001351	W	S	WS	probably damaging
rs11555224	NP_001822	R	S	RS	probably damaging
rs11555224	NP_976084	R	S	RS	probably damaging
rs11555226	NP_001822	L	I	LI	benign

rs11555226	NP_976084	L	I	LI	benign
rs11555227	NP_001822	S	R	SR	benign
rs11555227	NP_976084	S	R	SR	benign
rs11555240	NP_653182	R	W	RW	possibly damaging
rs11555241	NP_958786	C	F	CF	probably damaging
rs11555241	NP_958785	C	F	CF	probably damaging
rs11555241	NP_958784	C	F	CF	probably damaging
rs11555241	NP_958783	C	F	CF	probably damaging
rs11555241	NP_958782	C	F	CF	probably damaging
rs11555241	NP_958781	C	F	CF	probably damaging
rs11555241	NP_958780	C	F	CF	probably damaging
rs11555241	NP_000436	C	F	CF	probably damaging
rs11555246	NP_057269	P	H	PH	probably damaging
rs11555249	NP_001246	G	E	GE	probably damaging
rs11555252	NP_055630	C	F	CF	probably damaging
rs11555262	NP_006365	P	S	PS	benign
rs11555275	NP_689761	A	V	AV	benign
rs11555279	NP_006559	C	Y	CY	probably damaging
rs11555280	NP_006559	T	I	TI	benign
rs11555283	NP_001544	P	Q	PQ	possibly damaging
rs11555284	NP_001544	R	G	RG	benign
rs11555285	NP_001544	C	Y	CY	probably damaging
rs11555287	NP_001544	E	D	ED	benign
rs11555293	NP_001544	A	T	AT	benign
rs11555296	NP_001544	K	R	KR	benign
rs11555304	NP_065790	S	P	SP	benign
rs11555312	NP_073715	Q	K	QK	benign
rs11555315	XP_496965	V	A	VA	benign
rs11555318	XP_496965	N	I	NI	benign
rs11555322	NP_006704	I	T	IT	possibly damaging
rs11555333	NP_116184	F	L	FL	benign
rs11555342	NP_009005	H	D	HD	probably damaging
rs11555343	NP_003549	F	S	FS	probably damaging
rs11555344	NP_000393	V	L	VL	benign
rs11555349	XP_114087	M	T	MT	probably damaging
rs11555361	NP_620077	K	N	KN	benign
rs11555361	NP_056264	K	N	KN	benign
rs11555369	NP_005761	S	G	SG	benign
rs11555372	NP_005761	P	S	PS	possibly damaging
rs11555376	NP_005761	P	S	PS	possibly damaging
rs11555382	NP_149113	Q	R	QR	benign
rs11555385	NP_112243	V	M	VM	benign
rs11555386	NP_002333	P	S	PS	possibly damaging
rs11555404	NP_060179	V	A	VA	benign
rs11555414	NP_009185	P	L	PL	probably damaging
rs11555417	NP_006326	A	V	AV	benign

rs11555420	NP_006326	E	D	ED	benign
rs11555432	NP_005154	L	P	LP	probably damaging
rs11555433	NP_005154	V	A	VA	benign
rs11555442	NP_064707	V	A	VA	benign
rs11555443	NP_006444	W	C	WC	probably damaging
rs11555444	NP_002481	K	E	KE	benign
rs11555449	NP_002481	P	H	PH	probably damaging
rs11555453	NP_060624	V	L	VL	benign
rs11555463	NP_005585	F	L	FL	probably damaging
rs11555466	NP_001753	T	M	TM	probably damaging
rs11555474	NP_055579	Q	H	QH	benign
rs11555480	NP_659435	V	M	VM	benign
rs11555481	NP_689642	G	D	GD	possibly damaging
rs11555484	NP_073609	L	F	LF	benign
rs11555496	NP_055577	D	N	DN	benign
rs11555523	NP_000300	T	A	TA	benign
rs11555524	NP_000300	E	D	ED	benign
rs11555533	NP_071327	R	C	RC	possibly damaging
rs11555534	NP_071327	V	L	VL	benign
rs11555539	NP_071390	A	P	AP	benign
rs11555540	NP_005496	V	F	VF	benign
rs11555542	NP_057234	N	D	ND	benign
rs11555547	NP_976221	Q	H	QH	possibly damaging
rs11555548	NP_976221	P	L	PL	probably damaging
rs11555549	NP_976221	V	L	VL	benign
rs11555550	NP_976221	G	W	GW	probably damaging
rs11555579	NP_000990	F	L	FL	possibly damaging
rs11555588	NP_003841	I	K	IK	benign
rs11555591	NP_116145	R	W	RW	possibly damaging
rs11555607	NP_054775	G	R	GR	benign
rs11555620	NP_005993	R	Q	RQ	possibly damaging
rs11555621	NP_006594	T	I	TI	benign
rs11555649	NP_060267	C	G	CG	probably damaging
rs11555676	NP_115866	A	V	AV	benign
rs11555677	NP_115866	T	I	TI	possibly damaging
rs11555678	NP_115866	F	S	FS	probably damaging
rs11555685	NP_004506	T	I	TI	possibly damaging
rs11555689	XP_376178	L	F	LF	benign
rs11555692	NP_612421	P	H	PH	probably damaging
rs11555695	NP_075408	P	L	PL	probably damaging
rs11555695	NP_004073	P	L	PL	probably damaging
rs11555698	NP_115750	T	I	TI	possibly damaging
rs11555705	NP_000683	A	T	AT	benign
rs11555712	NP_001011	K	N	KN	benign
rs11555713	XP_497482	A	V	AV	possibly damaging
rs11555717	XP_497657	H	R	HR	possibly damaging

rs11555721	NP_056422	M	I	MI	benign
rs11555728	NP_000219	R	C	RC	probably damaging
rs11555732	NP_004040	Y	F	YF	benign
rs11555739	NP_054765	S	P	SP	benign
rs11555755	XP_087500	Q	R	QR	benign
rs11555760	NP_057226	S	G	SG	possibly damaging
rs11555770	NP_000110	S	I	SI	possibly damaging
rs11555779	NP_005434	A	T	AT	benign
rs11555782	NP_078986	E	D	ED	benign
rs11555785	NP_078986	I	M	IM	benign
rs11555797	NP_054859	R	H	RH	benign
rs11555803	NP_055792	R	K	RK	benign
rs11555804	NP_003305	K	E	KE	benign
rs11555817	NP_006826	K	R	KR	benign
rs11555820	NP_006826	L	F	LF	benign
rs11555825	NP_060761	S	T	ST	benign
rs11555830	NP_002124	R	H	RH	benign
rs11555842	NP_653244	Q	E	QE	benign
rs11555843	NP_002666	A	T	AT	benign
rs11555843	NP_150241	A	T	AT	benign
rs11555843	NP_150242	A	T	AT	benign
rs11555843	NP_150247	A	T	AT	benign
rs11555843	NP_150243	A	T	AT	benign
rs11555844	NP_005165	Q	H	QH	benign
rs11555848	NP_005165	A	S	AS	benign
rs11555851	NP_054890	S	N	SN	benign
rs11555862	NP_058644	R	Q	RQ	benign
rs11555869	NP_110395	S	P	SP	possibly damaging
rs11555870	NP_110395	H	Y	HY	possibly damaging
rs11555871	NP_037470	D	G	DG	probably damaging
rs11555873	NP_665735	V	F	VF	possibly damaging
rs11555891	NP_062558	D	N	DN	benign
rs11555893	NP_699181	F	L	FL	possibly damaging
rs11555910	NP_006614	L	V	LV	benign
rs11555911	NP_006614	K	N	KN	benign
rs11555922	NP_055214	N	D	ND	possibly damaging
rs11555928	NP_957516	K	E	KE	benign
rs11555930	NP_957516	A	P	AP	benign
rs11555944	NP_055439	E	K	EK	benign
rs11555948	NP_003840	Q	R	QR	benign
rs11555959	NP_660215	Q	R	QR	benign
rs11555989	NP_001824	K	N	KN	possibly damaging
rs11555989	NP_009027	K	N	KN	possibly damaging
rs11555993	NP_620157	L	V	LV	benign
rs11555996	NP_005697	P	L	PL	probably damaging
rs11556003	NP_001055	F	L	FL	probably damaging

rs11556004	NP_001055	F	L	FL	probably damaging
rs11556009	XP_371024	P	H	PH	possibly damaging
rs11556013	NP_002487	D	Y	DY	possibly damaging
rs11556015	NP_073745	A	V	AV	benign
rs11556036	NP_000966	S	L	SL	benign
rs11556037	NP_000966	G	C	GC	probably damaging
rs11556043	NP_000512	P	S	PS	possibly damaging
rs11556045	NP_000512	K	R	KR	benign
rs11556058	NP_079272	Q	R	QR	probably damaging
rs11556061	NP_003702	P	Q	PQ	possibly damaging
rs11556061	NP_795714	P	Q	PQ	probably damaging
rs11556062	NP_795714	F	L	FL	probably damaging
rs11556062	NP_003702	F	L	FL	probably damaging
rs11556069	NP_001311	M	I	MI	benign
rs11556076	NP_002405	A	V	AV	benign
rs11556080	NP_002405	M	V	MV	benign
rs11556098	NP_877962	Q	P	QP	possibly damaging
rs11556099	NP_877962	D	N	DN	benign
rs11556105	NP_079100	Q	K	QK	benign
rs11556108	NP_056229	L	Q	LQ	probably damaging
rs11556108	NP_378669	L	Q	LQ	probably damaging
rs11556110	NP_056229	K	E	KE	probably damaging
rs11556110	NP_378669	K	E	KE	probably damaging
rs11556113	NP_056229	D	G	DG	possibly damaging
rs11556113	NP_378669	D	G	DG	possibly damaging
rs11556122	NP_061980	G	V	GV	probably damaging
rs11556157	NP_057092	I	L	IL	benign
rs11556167	NP_004555	A	D	AD	benign
rs11556179	NP_000582	E	K	EK	benign
rs11556201	NP_006656	F	Y	FY	benign
rs11556202	NP_296373	N	T	NT	benign
rs11556202	NP_055817	N	T	NT	benign
rs11556209	NP_057657	A	S	AS	benign
rs11556224	NP_000169	G	E	GE	probably damaging
rs11556229	NP_060812	P	Q	PQ	probably damaging
rs11556239	NP_877571	D	G	DG	possibly damaging
rs11556239	NP_877572	D	G	DG	possibly damaging
rs11556239	NP_877573	D	G	DG	possibly damaging
rs11556239	NP_898830	D	G	DG	possibly damaging
rs11556239	NP_898831	D	G	DG	possibly damaging
rs11556239	NP_898883	D	G	DG	possibly damaging
rs11556239	NP_877570	D	G	DG	possibly damaging
rs11556239	NP_001872	D	G	DG	possibly damaging
rs11556239	NP_853549	D	G	DG	probably damaging
rs11556239	NP_898829	D	G	DG	probably damaging
rs11556240	NP_064576	I	T	IT	possibly damaging



rs11556244	NP_064576	M	V	MV	possibly damaging
rs11556250	NP_443081	A	S	AS	benign
rs11556251	NP_443081	Q	K	QK	benign
rs11556261	NP_060755	L	M	LM	benign
rs11556262	NP_060755	R	C	RC	probably damaging
rs11556263	NP_060755	Q	R	QR	benign
rs11556265	NP_060755	H	Y	HY	probably damaging
rs11556274	NP_004172	L	P	LP	probably damaging
rs11556275	NP_004172	V	A	VA	benign
rs11556279	NP_004172	S	F	SF	possibly damaging
rs11556285	NP_066284	K	N	KN	benign
rs11556287	NP_932349	W	R	WR	benign
rs11556291	NP_009216	V	A	VA	benign
rs11556297	NP_009216	P	T	PT	possibly damaging
rs11556306	NP_078812	R	G	RG	probably damaging
rs11556307	NP_078812	V	A	VA	benign
rs11556310	NP_078812	R	Q	RQ	possibly damaging
rs11556319	NP_004209	V	L	VL	benign
rs11556323	NP_006277	D	N	DN	benign
rs11556324	NP_005995	A	V	AV	benign
rs11556331	NP_000969	L	P	LP	probably damaging
rs11556332	NP_000969	L	F	LF	benign
rs11556333	NP_000969	L	P	LP	benign
rs11556344	NP_006109	P	S	PS	benign
rs11556352	NP_073593	R	M	RM	benign
rs11556377	NP_002457	V	M	VM	possibly damaging
rs11556379	NP_002457	I	M	IM	benign
rs11556380	NP_612364	A	T	AT	possibly damaging
rs11556383	NP_057475	Q	P	QP	probably damaging
rs11556392	NP_068378	L	R	LR	benign
rs11556406	NP_060480	L	V	LV	benign
rs11556408	NP_116034	Q	K	QK	benign
rs11556408	NP_005046	Q	K	QK	benign
rs11556432	NP_001995	R	L	RL	probably damaging
rs11556433	XP_496902	D	Y	DY	probably damaging
rs11556436	NP_001995	Q	R	QR	possibly damaging
rs11556437	NP_001995	P	S	PS	probably damaging
rs11556450	NP_057550	A	P	AP	benign
rs11556456	NP_061932	S	G	SG	possibly damaging
rs11556461	NP_004654	E	K	EK	benign
rs11556468	NP_075572	A	V	AV	benign
rs11556468	NP_075573	A	V	AV	benign
rs11556468	NP_075574	A	V	AV	benign
rs11556468	NP_075575	A	V	AV	benign
rs11556468	NP_075571	A	V	AV	benign
rs11556474	NP_955391	L	V	LV	benign

rs11556474	NP_955392	L	V	LV	benign
rs11556474	NP_955393	L	V	LV	benign
rs11556474	NP_955394	L	V	LV	benign
rs11556474	NP_955395	L	V	LV	benign
rs11556474	NP_003279	L	V	LV	benign
rs11556482	NP_060381	L	V	LV	benign
rs11556490	NP_001633	V	M	VM	benign
rs11556497	NP_008971	R	C	RC	probably damaging
rs11556497	NP_653334	R	C	RC	probably damaging
rs11556517	NP_006223	K	E	KE	benign
rs11556530	NP_000992	D	V	DV	probably damaging
rs11556534	NP_000992	H	R	HR	probably damaging
rs11556552	NP_065710	L	V	LV	benign
rs11556553	NP_065710	G	E	GE	benign
rs11556559	XP_496654	I	M	IM	benign
rs11556561	XP_496654	Y	C	YC	probably damaging
rs11556563	NP_115987	Q	R	QR	benign
rs11556566	NP_006803	Q	R	QR	benign
rs11556568	NP_006803	R	G	RG	probably damaging
rs11556574	NP_004877	A	V	AV	benign
rs11556575	NP_057192	H	Y	HY	possibly damaging
rs11556578	NP_057192	I	M	IM	benign
rs11556591	NP_002435	N	S	NS	probably damaging
rs11556596	NP_060727	L	I	LI	benign
rs11556597	NP_008916	L	F	LF	benign
rs11556605	NP_689518	K	R	KR	benign
rs11556605	NP_064616	R	K	RK	benign
rs11556607	NP_003896	H	Y	HY	possibly damaging
rs11556608	NP_003896	H	N	HN	probably damaging
rs11556612	NP_003989	D	H	DH	possibly damaging
rs11556625	NP_006795	D	E	DE	benign
rs11556643	NP_079234	L	V	LV	benign
rs11556658	NP_001393	T	I	TI	probably damaging
rs11556676	NP_001393	T	I	TI	benign
rs11556692	NP_001393	C	W	CW	probably damaging
rs11556731	NP_660282	P	R	PR	possibly damaging
rs11556732	NP_660282	P	S	PS	possibly damaging
rs11556736	NP_115766	L	F	LF	benign
rs11556739	NP_115766	I	T	IT	benign
rs11556741	NP_006613	L	R	LR	possibly damaging
rs11556749	NP_001575	H	R	HR	probably damaging
rs11556750	NP_004855	P	H	PH	probably damaging
rs11556757	NP_005711	R	L	RL	possibly damaging
rs11556758	NP_005711	R	L	RL	possibly damaging
rs11556761	NP_689912	H	P	HP	probably damaging
rs11556766	NP_114417	Y	C	YC	probably damaging

rs11556774	NP_004844	K	N	KN	benign
rs11556775	NP_054880	P	S	PS	possibly damaging
rs11556788	NP_057021	A	P	AP	benign
rs11556789	NP_057021	G	A	GA	benign
rs11556792	NP_004499	N	I	NI	probably damaging
rs11556796	NP_115649	L	I	LI	benign
rs11556797	NP_115649	R	H	RH	benign
rs11556800	NP_919333	R	S	RS	benign
rs11556800	NP_055586	R	S	RS	benign
rs11556801	NP_919333	R	H	RH	possibly damaging
rs11556801	NP_055586	R	H	RH	possibly damaging
rs11556809	NP_000311	R	G	RG	benign
rs11556814	NP_057680	E	D	ED	benign
rs11556814	NP_056216	E	D	ED	benign
rs11556823	NP_647539	R	H	RH	probably damaging
rs11556823	NP_003395	R	H	RH	probably damaging
rs11556827	NP_004198	C	F	CF	benign
rs11556834	NP_000260	Q	H	QH	benign
rs11556834	NP_937818	Q	H	QH	benign
rs11556837	NP_116274	G	V	GV	benign
rs11556838	NP_116274	S	G	SG	benign
rs11556848	NP_036476	L	M	LM	benign
rs11556857	NP_690857	A	V	AV	benign
rs11556857	NP_219489	A	V	AV	benign
rs11556868	NP_003991	A	V	AV	benign
rs11556869	NP_003991	P	S	PS	probably damaging
rs11556877	NP_001813	L	H	LH	possibly damaging
rs11556887	NP_536349	A	V	AV	benign
rs11556887	NP_004500	A	V	AV	benign
rs11556888	NP_004501	E	K	EK	benign
rs11556888	NP_536349	E	K	EK	benign
rs11556888	NP_004500	E	K	EK	benign
rs11556892	NP_055212	P	A	PA	probably damaging
rs11556895	NP_077275	A	V	AV	benign
rs11556905	NP_068839	A	T	AT	benign
rs11556910	NP_057146	P	Q	PQ	possibly damaging
rs11556920	NP_055020	E	K	EK	benign
rs11556923	NP_057562	S	L	SL	possibly damaging
rs11556924	NP_057562	R	H	RH	benign
rs11556936	NP_005007	M	I	MI	benign
rs11556936	NP_114366	M	I	MI	benign
rs11556938	NP_055269	V	A	VA	benign
rs11556939	NP_006358	V	A	VA	benign
rs11556942	NP_006358	F	L	FL	probably damaging
rs11556954	NP_003555	E	D	ED	benign
rs11556957	NP_003555	L	F	LF	benign

rs11556958	NP_003555	Q	R	QR	possibly damaging
rs11556959	NP_689589	H	R	HR	possibly damaging
rs11556969	NP_116325	T	N	TN	possibly damaging
rs11556974	NP_004485	G	D	GD	benign
rs11556976	NP_004485	E	K	EK	benign
rs11556980	XP_377713	F	L	FL	benign
rs11556986	NP_068749	S	C	SC	benign
rs11556992	NP_291035	P	S	PS	probably damaging
rs11557000	NP_848694	A	P	AP	benign
rs11557000	NP_848693	A	P	AP	benign
rs11557002	NP_848694	A	S	AS	benign
rs11557002	NP_848693	A	S	AS	benign
rs11557004	NP_848694	L	P	LP	possibly damaging
rs11557004	NP_848693	L	P	LP	possibly damaging
rs11557013	NP_005708	S	G	SG	possibly damaging
rs11557020	XP_061427	M	I	MI	possibly damaging
rs11557029	XP_496093	Y	H	YH	benign
rs11557030	NP_071404	Y	D	YD	probably damaging
rs11557041	NP_003624	L	F	LF	benign
rs11557045	NP_058646	R	H	RH	benign
rs11557049	NP_002594	G	E	GE	probably damaging
rs11557049	NP_002595	G	E	GE	probably damaging
rs11557052	NP_000691	N	D	ND	benign
rs11557058	NP_000691	V	A	VA	benign
rs11557060	NP_116136	S	P	SP	possibly damaging
rs11557063	XP_496349	R	Q	RQ	benign
rs11557064	NP_057182	L	I	LI	benign
rs11557067	NP_057182	A	V	AV	possibly damaging
rs11557070	NP_036380	G	D	GD	benign
rs11557087	NP_006437	T	A	TA	benign
rs11557099	NP_004159	K	N	KN	probably damaging
rs11557102	XP_496272	E	D	ED	benign
rs11557118	NP_110409	L	M	LM	benign
rs11557120	NP_077808	V	A	VA	benign
rs11557120	NP_006573	V	A	VA	benign
rs11557141	NP_057019	E	G	EG	possibly damaging
rs11557142	NP_006351	L	F	LF	benign
rs11557143	NP_006351	G	R	GR	possibly damaging
rs11557146	NP_060952	L	F	LF	benign
rs11557148	NP_057064	F	S	FS	possibly damaging
rs11557151	NP_037453	R	Q	RQ	benign
rs11557154	NP_056212	R	Q	RQ	possibly damaging
rs11557162	NP_005403	D	Y	DY	probably damaging
rs11557165	NP_005403	D	Y	DY	probably damaging
rs11557173	NP_619713	A	T	AT	benign
rs11557173	NP_001698	A	T	AT	benign

rs11557182	NP_001852	S	P	SP	possibly damaging
rs11557185	NP_001852	Y	H	YH	possibly damaging
rs11557187	XP_063336	A	T	AT	benign
rs11557189	NP_001852	F	L	FL	benign
rs11557196	NP_006828	A	S	AS	benign
rs11557198	NP_006828	L	M	LM	benign
rs11557210	XP_290944	P	L	PL	probably damaging
rs11557217	XP_375449	E	D	ED	benign
rs11557232	NP_055563	P	R	PR	probably damaging
rs11557236	NP_065728	T	I	TI	benign
rs11557248	NP_068810	R	L	RL	possibly damaging
rs11557260	XP_290704	P	T	PT	probably damaging
rs11557264	NP_001440	R	L	RL	probably damaging
rs11557265	NP_001440	C	R	CR	probably damaging
rs11557267	NP_001440	H	R	HR	probably damaging
rs11557268	NP_002412	R	S	RS	benign
rs11557271	NP_976049	Q	R	QR	possibly damaging
rs11557286	NP_003162	E	G	EG	possibly damaging
rs11557302	NP_006419	D	E	DE	benign
rs11557303	NP_006419	Y	C	YC	benign
rs11557304	NP_612565	G	V	GV	probably damaging
rs11557304	NP_004847	G	V	GV	probably damaging
rs11557312	NP_005919	S	T	ST	benign
rs11557327	NP_064539	P	Q	PQ	possibly damaging
rs11557333	NP_060386	G	D	GD	possibly damaging
rs11557339	NP_115865	P	H	PH	probably damaging
rs11557348	NP_001460	M	I	MI	benign
rs11557351	NP_001460	Q	R	QR	benign
rs11557352	XP_372262	E	V	EV	probably damaging
rs11557355	NP_001460	D	Y	DY	probably damaging
rs11557357	NP_005132	E	G	EG	possibly damaging
rs11557361	NP_612373	C	Y	CY	probably damaging
rs11557372	NP_954994	E	K	EK	benign
rs11557372	NP_954995	E	K	EK	benign
rs11557382	NP_002787	S	L	SL	benign
rs11557384	NP_002787	R	W	RW	possibly damaging
rs11557386	NP_002787	G	R	GR	benign
rs11557387	NP_002787	G	S	GS	benign
rs11557388	NP_002787	D	E	DE	benign
rs11557394	XP_495848	D	G	DG	probably damaging
rs11557397	NP_003637	P	T	PT	benign
rs11557397	NP_963291	P	T	PT	benign
rs11557397	NP_963290	P	T	PT	benign
rs11557404	NP_000988	G	C	GC	probably damaging
rs11557408	NP_057122	V	M	VM	benign
rs11557409	NP_057122	R	H	RH	possibly damaging

rs11557427	NP_660308	R	H	RH	probably damaging
rs11557437	NP_004675	S	Y	SY	probably damaging
rs11557441	NP_001485	K	T	KT	probably damaging
rs11557445	NP_001485	G	V	GV	probably damaging
rs11557447	NP_001485	T	N	TN	benign
rs11557449	NP_066553	S	P	SP	possibly damaging
rs11557467	NP_942141	S	I	SI	possibly damaging
rs11557467	NP_955353	S	I	SI	possibly damaging
rs11557470	XP_058961	G	C	GC	probably damaging
rs11557482	NP_002900	D	G	DG	possibly damaging
rs11557505	NP_061899	L	V	LV	benign
rs11557509	NP_054884	K	E	KE	benign
rs11557516	NP_006023	P	H	PH	probably damaging
rs11557533	NP_001987	Q	H	QH	possibly damaging
rs11557540	NP_000875	D	G	DG	possibly damaging
rs11557551	NP_079514	C	S	CS	benign
rs11557556	XP_376201	L	P	LP	possibly damaging
rs11557560	NP_542784	K	I	KI	benign
rs11557561	NP_542784	D	N	DN	benign
rs11557600	NP_000346	G	S	GS	benign
rs11557614	NP_000198	A	V	AV	possibly damaging
rs11557617	NP_932172	P	S	PS	possibly damaging
rs11557628	NP_060786	S	R	SR	benign
rs11557631	NP_057375	H	L	HL	probably damaging
rs11557632	NP_057375	V	F	VF	possibly damaging
rs11557640	NP_009045	M	V	MV	possibly damaging
rs11557648	NP_036205	P	L	PL	probably damaging
rs11557652	NP_036205	E	V	EV	possibly damaging
rs11557653	NP_036205	N	H	NH	probably damaging
rs11557654	NP_036205	D	H	DH	probably damaging
rs11557655	NP_036205	P	Q	PQ	benign
rs11557656	NP_036205	D	N	DN	benign
rs11557664	NP_005539	H	Y	HY	probably damaging
rs11557665	NP_005539	G	A	GA	possibly damaging
rs11557667	NP_005539	P	T	PT	probably damaging
rs11557669	NP_005539	E	Q	EQ	benign
rs11557672	NP_064709	A	E	AE	benign
rs11557676	NP_006689	K	R	KR	benign
rs11557677	NP_006689	Y	C	YC	probably damaging
rs11557681	XP_371681	M	T	MT	probably damaging
rs11557684	NP_061895	P	S	PS	probably damaging
rs11557686	NP_060853	A	S	AS	benign
rs11557693	NP_071739	R	L	RL	probably damaging
rs11557705	NP_689755	I	T	IT	possibly damaging
rs11557717	NP_056002	T	A	TA	benign
rs11557723	NP_077320	E	A	EA	possibly damaging

rs11557723	NP_997630	E	A	EA	possibly damaging
rs11557723	NP_775111	E	A	EA	possibly damaging
rs11557724	NP_852004	P	S	PS	probably damaging
rs11557724	NP_000556	P	S	PS	probably damaging
rs11557725	NP_852004	L	R	LR	possibly damaging
rs11557725	NP_000556	L	R	LR	possibly damaging
rs11557754	NP_005689	R	K	RK	benign
rs11557754	NP_443069	R	K	RK	benign
rs11557761	NP_002036	A	V	AV	benign
rs11557762	NP_002036	K	E	KE	possibly damaging
rs11557763	NP_002036	D	E	DE	possibly damaging
rs11557764	NP_002036	K	E	KE	possibly damaging
rs11557765	NP_002036	E	K	EK	benign
rs11557769	NP_001093	T	S	TS	benign
rs11557794	NP_003229	N	Y	NY	probably damaging
rs11557803	NP_055186	M	T	MT	probably damaging
rs11557808	NP_659005	F	S	FS	possibly damaging
rs11557808	NP_002589	F	S	FS	probably damaging
rs11557810	NP_115569	P	L	PL	probably damaging
rs11557818	NP_003079	S	F	SF	possibly damaging
rs11557819	NP_003079	P	H	PH	possibly damaging
rs11557821	NP_003079	G	S	GS	benign
rs11557833	NP_114381	P	H	PH	probably damaging
rs11557833	NP_071496	P	H	PH	probably damaging
rs11557839	NP_919307	K	R	KR	benign
rs11557841	NP_002070	Q	R	QR	benign
rs11557869	XP_086494	E	G	EG	possibly damaging
rs11557872	XP_086494	S	P	SP	possibly damaging
rs11557878	XP_086494	L	I	LI	benign
rs11557881	NP_000020	A	V	AV	benign
rs11557882	NP_000020	K	E	KE	benign
rs11557883	NP_000020	S	F	SF	possibly damaging
rs11557900	NP_004701	L	V	LV	benign
rs11557901	NP_004701	P	H	PH	possibly damaging
rs11557909	NP_443078	L	S	LS	benign
rs11557910	NP_612410	R	W	RW	possibly damaging
rs11557920	NP_055184	L	P	LP	benign
rs11557921	NP_005337	D	Y	DY	benign
rs11557921	NP_005336	D	Y	DY	benign
rs11557924	NP_005337	I	T	IT	benign
rs11557924	NP_005336	I	T	IT	benign
rs11558038	NP_005685	P	T	PT	probably damaging
rs11558040	NP_005685	P	L	PL	probably damaging
rs11558044	XP_294311	L	P	LP	probably damaging
rs11558046	NP_005331	E	A	EA	probably damaging
rs11558065	NP_006000	E	K	EK	possibly damaging

rs11558073	NP_006000	S	Y	SY	probably damaging
rs11558077	NP_116093	P	Q	PQ	probably damaging
rs11558078	NP_694966	Q	P	QP	probably damaging
rs11558079	NP_694966	I	R	IR	possibly damaging
rs11558083	XP_290722	T	S	TS	benign
rs11558085	NP_005852	Q	R	QR	benign
rs11558088	NP_073732	G	V	GV	possibly damaging
rs11558089	NP_073732	V	G	VG	probably damaging
rs11558091	NP_073732	I	T	IT	possibly damaging
rs11558096	NP_056028	F	L	FL	probably damaging
rs11558103	NP_006004	G	R	GR	probably damaging
rs11558116	NP_006004	C	F	CF	probably damaging
rs11558119	NP_006004	F	L	FL	benign
rs11558125	XP_371781	L	M	LM	benign
rs11558135	NP_004550	T	M	TM	benign
rs11558139	NP_055686	N	S	NS	benign
rs11558142	NP_055686	R	H	RH	possibly damaging
rs11558144	NP_003147	D	N	DN	benign
rs11558146	NP_001514	K	R	KR	benign
rs11558156	NP_057009	V	I	VI	benign
rs11558156	NP_991403	V	I	VI	benign
rs11558156	NP_991404	V	I	VI	benign
rs11558171	NP_002071	A	S	AS	benign
rs11558175	NP_079415	L	F	LF	benign
rs11558176	NP_003485	E	G	EG	possibly damaging
rs11558178	NP_003485	L	V	LV	benign
rs11558180	NP_064560	P	S	PS	possibly damaging
rs11558182	NP_055862	A	T	AT	benign
rs11558184	NP_000148	R	Q	RQ	benign
rs11558190	NP_114107	Q	R	QR	benign
rs11558195	NP_001810	T	M	TM	benign
rs11558200	NP_775817	M	V	MV	benign
rs11558228	NP_005653	G	W	GW	probably damaging
rs11558232	NP_695021	I	V	IV	benign
rs11558235	NP_002701	C	R	CR	probably damaging
rs11558237	NP_002701	F	S	FS	probably damaging
rs11558239	NP_002701	K	E	KE	benign
rs11558249	NP_002849	Y	C	YC	possibly damaging
rs11558250	NP_002849	M	V	MV	benign
rs11558259	NP_000286	Q	R	QR	possibly damaging
rs11558261	NP_000286	G	S	GS	benign
rs11558262	NP_000286	T	A	TA	benign
rs11558263	NP_000286	S	R	SR	benign
rs11558264	NP_000286	K	Q	KQ	benign
rs11558269	NP_003746	T	I	TI	possibly damaging
rs11558272	NP_003746	A	V	AV	benign



rs11558276	NP_006049	M	L	ML	benign
rs11558286	NP_002491	Y	F	YF	benign
rs11558290	NP_060765	Q	E	QE	benign
rs11558302	NP_002255	E	Q	EQ	possibly damaging
rs11558305	NP_005547	P	L	PL	benign
rs11558306	NP_005547	A	S	AS	benign
rs11558326	NP_037508	A	P	AP	benign
rs11558332	NP_002292	D	V	DV	probably damaging
rs11558332	NP_059144	D	V	DV	probably damaging
rs11558333	NP_002292	G	S	GS	probably damaging
rs11558333	NP_059144	G	S	GS	probably damaging
rs11558350	NP_002645	V	G	VG	probably damaging
rs11558350	NP_872270	V	G	VG	probably damaging
rs11558353	NP_002645	V	L	VL	benign
rs11558353	NP_872270	V	L	VL	benign
rs11558353	NP_872271	V	L	VL	benign
rs11558357	NP_002645	R	P	RP	benign
rs11558357	NP_872270	R	P	RP	benign
rs11558357	NP_872271	R	P	RP	benign
rs11558360	NP_002645	E	K	EK	possibly damaging
rs11558360	NP_872270	E	K	EK	possibly damaging
rs11558360	NP_872271	E	K	EK	possibly damaging
rs11558365	NP_002645	Q	H	QH	probably damaging
rs11558365	NP_872270	Q	H	QH	probably damaging
rs11558365	NP_872271	Q	H	QH	probably damaging
rs11558370	NP_002645	Q	P	QP	probably damaging
rs11558370	NP_872270	Q	P	QP	probably damaging
rs11558370	NP_872271	Q	P	QP	probably damaging
rs11558375	NP_002645	C	F	CF	probably damaging
rs11558375	NP_872270	C	F	CF	probably damaging
rs11558375	NP_872271	C	F	CF	probably damaging
rs11558389	XP_048070	C	R	CR	benign
rs11558395	NP_066964	D	G	DG	benign
rs11558400	NP_055048	T	I	TI	possibly damaging
rs11558415	XP_061055	M	I	MI	benign
rs11558422	NP_002130	P	S	PS	benign
rs11558424	XP_497012	P	R	PR	probably damaging
rs11558426	NP_002130	F	L	FL	possibly damaging
rs11558433	NP_116056	L	S	LS	benign
rs11558440	NP_002559	L	F	LF	possibly damaging
rs11558453	NP_055687	A	T	AT	benign
rs11558473	NP_005479	R	H	RH	possibly damaging
rs11558482	NP_004759	A	S	AS	benign
rs11558492	NP_055051	D	G	DG	benign
rs11558495	NP_055051	S	P	SP	benign
rs11558511	NP_060912	V	A	VA	benign

rs11558529	NP_002880	G	C	GC	probably damaging
rs11558534	NP_079358	S	R	SR	benign
rs11558535	NP_079358	P	A	PA	probably damaging
rs11558539	NP_057187	A	V	AV	benign
rs11558550	NP_005956	A	T	AT	benign
rs11558550	NP_444254	A	T	AT	benign
rs11558550	NP_444255	A	T	AT	benign
rs11558550	NP_444256	A	T	AT	benign
rs11558550	NP_444257	A	T	AT	benign
rs11558550	NP_444258	A	T	AT	benign
rs11558550	NP_444253	A	T	AT	benign
rs11558570	NP_940888	I	T	IT	possibly damaging
rs11558580	NP_005820	N	S	NS	possibly damaging
rs11558585	NP_115595	S	P	SP	benign
rs11558585	NP_002468	E	G	EG	possibly damaging
rs11558595	NP_000933	V	L	VL	benign
rs11558603	NP_742097	R	C	RC	probably damaging
rs11558603	NP_742099	R	C	RC	probably damaging
rs11558603	NP_742100	R	C	RC	probably damaging
rs11558603	NP_757362	R	C	RC	probably damaging
rs11558603	NP_004922	R	C	RC	probably damaging
rs11558603	NP_742098	R	C	RC	probably damaging
rs11558612	NP_005785	D	G	DG	possibly damaging
rs11558612	NP_878912	D	G	DG	possibly damaging
rs11558627	NP_006451	Q	H	QH	benign
rs11558671	NP_055066	V	L	VL	benign
rs11558673	NP_055066	S	Y	SY	possibly damaging
rs11558676	NP_006539	P	S	PS	benign
rs11558679	NP_060701	G	R	GR	probably damaging
rs11558680	NP_060701	C	F	CF	probably damaging
rs11558687	NP_056257	T	S	TS	benign
rs11558688	NP_005501	R	G	RG	possibly damaging
rs11558689	NP_005501	T	A	TA	benign
rs11558722	NP_598005	T	I	TI	benign
rs11558725	NP_006487	A	T	AT	benign
rs11558744	NP_002764	S	G	SG	benign
rs11558749	NP_000357	Q	K	QK	benign
rs11558752	NP_005167	D	H	DH	probably damaging
rs11558767	NP_689718	G	S	GS	benign
rs11558769	NP_009126	Y	N	YN	probably damaging
rs11558773	NP_660306	K	R	KR	benign
rs11558777	NP_001528	E	G	EG	possibly damaging
rs11558783	NP_695012	R	H	RH	benign
rs11558787	NP_002612	R	C	RC	probably damaging
rs11558792	NP_076968	D	N	DN	benign
rs11558798	NP_006657	P	Q	PQ	probably damaging

rs11558805	NP_009210	D	H	DH	benign
rs11558807	NP_060615	Q	H	QH	benign
rs11558808	NP_060615	N	K	NK	benign
rs11558818	NP_003812	P	H	PH	probably damaging
rs11558825	NP_003708	S	F	SF	benign
rs11558836	NP_059128	L	P	LP	possibly damaging
rs11558840	NP_057724	N	S	NS	benign
rs11558841	NP_057724	K	E	KE	benign
rs11558843	NP_036387	R	P	RP	probably damaging
rs11558855	NP_078969	R	C	RC	possibly damaging
rs11558857	NP_859525	E	G	EG	probably damaging
rs11558857	NP_859526	E	G	EG	probably damaging
rs11558857	NP_002543	E	G	EG	probably damaging
rs11558872	NP_005821	A	V	AV	benign
rs11558876	NP_003339	P	R	PR	probably damaging
rs11558904	NP_000406	A	P	AP	benign
rs11558909	NP_004999	L	M	LM	benign
rs11558933	NP_114161	E	G	EG	possibly damaging
rs11558934	NP_004322	S	Y	SY	benign
rs11558936	NP_004322	P	R	PR	probably damaging
rs11558950	NP_976050	T	A	TA	benign
rs11558955	NP_005044	T	A	TA	benign
rs11558963	NP_055037	L	P	LP	possibly damaging
rs11558978	NP_056359	I	V	IV	benign
rs11558979	NP_612352	R	H	RH	benign
rs11558979	NP_958929	R	H	RH	possibly damaging
rs11558979	NP_958930	R	H	RH	possibly damaging
rs11558979	NP_958931	R	H	RH	possibly damaging
rs11558982	NP_001354	S	P	SP	possibly damaging
rs11558984	NP_056134	A	T	AT	benign
rs11558984	NP_736610	A	T	AT	benign
rs11558984	NP_938072	A	T	AT	benign
rs11558989	NP_037473	P	H	PH	probably damaging
rs11559006	NP_115727	S	P	SP	benign
rs11559016	NP_000720	R	H	RH	possibly damaging
rs11559017	NP_060268	M	I	MI	possibly damaging
rs11559018	NP_444252	L	V	LV	benign
rs11559018	NP_002619	L	V	LV	benign
rs11559022	NP_444252	L	P	LP	probably damaging
rs11559022	NP_002619	L	P	LP	probably damaging
rs11559024	NP_001815	E	G	EG	probably damaging
rs11559036	NP_005875	K	N	KN	probably damaging
rs11559037	NP_005875	M	I	MI	possibly damaging
rs11559042	NP_110417	A	T	AT	benign
rs11559043	NP_110417	E	D	ED	benign
rs11559044	NP_110417	A	T	AT	benign

rs11559048	NP_671514	R	W	RW	probably damaging
rs11559048	NP_005857	R	W	RW	probably damaging
rs11559048	NP_671513	R	W	RW	probably damaging
rs11559053	NP_006779	K	E	KE	benign
rs11559061	NP_056203	F	L	FL	possibly damaging
rs11559062	NP_056203	L	F	LF	benign
rs11559063	NP_056203	G	S	GS	possibly damaging
rs11559064	NP_056203	A	P	AP	benign
rs11559071	NP_938149	I	F	IF	benign
rs11559071	NP_938148	I	F	IF	possibly damaging
rs11559072	NP_938149	P	L	PL	probably damaging
rs11559072	NP_055425	P	L	PL	probably damaging
rs11559072	NP_938148	P	L	PL	probably damaging
rs11559080	NP_115509	L	M	LM	benign
rs11559081	NP_057581	L	F	LF	benign
rs11559083	NP_057581	P	L	PL	probably damaging
rs11559084	NP_057581	R	H	RH	possibly damaging
rs11559087	NP_055150	P	S	PS	possibly damaging
rs11559092	XP_497550	F	L	FL	benign
rs11559093	XP_497550	A	T	AT	benign
rs11559094	NP_001976	V	M	VM	benign
rs11559096	NP_005266	P	H	PH	probably damaging
rs11559104	NP_057616	D	N	DN	benign
rs11559113	NP_996734	L	V	LV	benign
rs11559113	NP_996739	L	V	LV	benign
rs11559132	NP_758516	Y	C	YC	probably damaging
rs11559132	NP_036568	Y	C	YC	probably damaging
rs11559133	NP_758516	T	A	TA	benign
rs11559134	NP_689775	S	L	SL	benign
rs11559137	NP_937782	E	G	EG	possibly damaging
rs11559137	NP_002998	E	G	EG	possibly damaging
rs11559138	NP_937782	L	P	LP	benign
rs11559138	NP_002998	L	P	LP	benign
rs11559143	NP_003062	P	R	PR	possibly damaging
rs11559143	NP_620636	P	R	PR	possibly damaging
rs11559154	NP_004205	R	W	RW	probably damaging
rs11559154	NP_942600	R	W	RW	probably damaging
rs11559155	NP_004205	P	S	PS	probably damaging
rs11559155	NP_942600	P	S	PS	probably damaging
rs11559156	NP_006727	P	L	PL	probably damaging
rs11559159	NP_065385	W	G	WG	probably damaging
rs11559174	NP_542397	E	G	EG	benign
rs11559179	NP_006816	R	C	RC	possibly damaging
rs11559188	NP_064615	Q	R	QR	benign
rs11559191	NP_064615	H	P	HP	probably damaging
rs11559199	NP_116259	G	A	GA	benign

rs11559204	NP_002371	K	R	KR	benign
rs11559204	NP_085072	K	R	KR	benign
rs11559205	NP_997229	I	L	IL	benign
rs11559206	NP_997229	Q	E	QE	benign
rs11559208	NP_001278	K	E	KE	benign
rs11559216	NP_004944	A	P	AP	benign
rs11559216	NP_886553	A	P	AP	benign
rs11559216	NP_937884	A	P	AP	benign
rs11559216	NP_937885	A	P	AP	benign
rs11559216	NP_937887	A	P	AP	benign
rs11559221	NP_065172	L	M	LM	benign
rs11559228	NP_945179	L	V	LV	benign
rs11559232	NP_945179	L	I	LI	benign
rs11559242	NP_000775	D	N	DN	benign
rs11559274	NP_005491	Q	H	QH	possibly damaging
rs11559276	NP_005491	D	G	DG	possibly damaging
rs11559278	NP_005491	N	H	NH	benign
rs11559281	NP_000172	P	T	PT	possibly damaging
rs11559283	NP_000172	L	F	LF	benign
rs11559290	NP_004444	I	T	IT	benign
rs11559294	NP_004332	E	G	EG	benign
rs11559295	NP_065806	L	M	LM	benign
rs11559296	NP_065806	P	R	PR	probably damaging
rs11559300	NP_005265	S	G	SG	benign
rs11559304	NP_006436	R	H	RH	benign
rs11559306	NP_006436	P	S	PS	benign
rs11559315	NP_006815	S	F	SF	possibly damaging
rs11559316	NP_006815	P	R	PR	probably damaging
rs11559320	NP_000983	A	T	AT	benign
rs11559324	NP_000983	I	F	IF	benign
rs11559329	NP_000983	P	Q	PQ	benign
rs11563246	XP_371603	K	N	KN	benign
rs11564148	XP_058513	S	T	ST	benign
rs11564522	NP_003697	E	K	EK	benign
rs11564532	NP_003697	A	V	AV	benign
rs11564534	NP_003697	V	F	VF	benign
rs11564538	NP_003697	P	L	PL	benign
rs11564541	NP_003697	T	S	TS	benign
rs11564620	NP_003697	T	P	TP	benign
rs11564638	NP_003697	D	N	DN	benign
rs11565649	XP_210365	T	I	TI	possibly damaging
rs11565653	NP_060651	E	D	ED	benign
rs11566450	XP_376278	F	L	FL	benign
rs11567735	NP_002176	E	D	ED	benign
rs11567806	NP_004045	V	A	VA	possibly damaging
rs11567841	NP_005347	G	S	GS	benign

rs11567847	NP_068780	Y	H	YH	possibly damaging
rs11567901	NP_002042	G	S	GS	benign
rs11567962	NP_001781	S	N	SN	benign
rs11567997	NP_073720	G	R	GR	probably damaging
rs11567997	NP_001781	G	R	GR	probably damaging
rs11568032	NP_000020	E	K	EK	benign
rs11568053	NP_000020	M	I	MI	possibly damaging
rs11568099	NP_001131	N	K	NK	benign
rs11568101	NP_001131	R	Q	RQ	benign
rs11568142	NP_001131	D	H	DH	benign
rs11568178	NP_055981	V	I	VI	benign
rs11568178	NP_631941	V	I	VI	benign
rs11568188	NP_055981	N	S	NS	benign
rs11568188	NP_631941	N	S	NS	benign
rs11568312	NP_003860	A	T	AT	benign
rs11568312	NP_932327	A	T	AT	benign
rs11568323	NP_001034	N	K	NK	benign
rs11568325	NP_001034	T	R	TR	probably damaging
rs11568341	NP_001034	V	I	VI	benign
rs11568346	NP_055400	R	G	RG	benign
rs11568350	NP_055400	Q	H	QH	benign
rs11568353	NP_055400	P	L	PL	benign
rs11568355	NP_055400	M	V	MV	possibly damaging
rs11568357	NP_003733	I	V	IV	benign
rs11568361	NP_003733	S	L	SL	benign
rs11568364	NP_003733	M	V	MV	benign
rs11568367	NP_003733	N	S	NS	possibly damaging
rs11568369	NP_003733	Q	H	QH	possibly damaging
rs11568370	NP_003733	E	Q	EQ	benign
rs11568372	NP_003733	E	G	EG	probably damaging
rs11568386	NP_071410	R	Q	RQ	benign
rs11568388	NP_071410	G	R	GR	probably damaging
rs11568398	NP_071410	R	H	RH	benign
rs11568401	NP_071410	R	K	RK	benign
rs11568403	NP_071410	S	N	SN	benign
rs11568405	NP_071410	L	I	LI	benign
rs11568411	NP_071410	R	K	RK	benign
rs11568412	NP_071410	D	H	DH	benign
rs11568418	NP_071410	I	V	IV	benign
rs11568423	NP_003973	R	Q	RQ	possibly damaging
rs11568424	NP_003973	F	S	FS	probably damaging
rs11568432	NP_003973	Y	C	YC	probably damaging
rs11568437	NP_003973	R	C	RC	probably damaging
rs11568438	NP_003973	V	A	VA	benign
rs11568441	NP_003975	A	P	AP	benign
rs11568442	NP_003975	P	S	PS	possibly damaging

rs11568454	NP_003975	I	V	IV	benign
rs11568461	NP_003975	F	L	FL	probably damaging
rs11568463	NP_003975	V	I	VI	benign
rs11568467	NP_003975	L	F	LF	benign
rs11568476	NP_003975	V	M	VM	possibly damaging
rs11568479	NP_004245	F	L	FL	possibly damaging
rs11568481	NP_004245	A	V	AV	benign
rs11568482	NP_004245	I	F	IF	possibly damaging
rs11568486	NP_004245	V	I	VI	benign
rs11568489	NP_004245	R	S	RS	probably damaging
rs11568491	NP_004245	V	A	VA	benign
rs11568492	NP_004245	R	W	RW	probably damaging
rs11568493	NP_004245	I	R	IR	possibly damaging
rs11568497	NP_004245	A	S	AS	benign
rs11568500	NP_003050	M	I	MI	probably damaging
rs11568509	NP_003050	V	M	VM	benign
rs11568510	NP_003050	D	G	DG	probably damaging
rs11568513	NP_003051	V	F	VF	possibly damaging
rs11568514	NP_003051	Y	D	YD	possibly damaging
rs11568520	NP_003051	F	L	FL	possibly damaging
rs11568521	NP_003051	F	L	FL	benign
rs11568524	NP_003051	M	V	MV	benign
rs11568525	NP_003051	P	S	PS	probably damaging
rs11568527	NP_647480	T	I	TI	possibly damaging
rs11568530	NP_647480	A	T	AT	benign
rs11568543	NP_647480	G	E	GE	probably damaging
rs11568548	NP_647480	P	L	PL	benign
rs11568551	NP_602307	I	V	IV	benign
rs11568553	NP_602307	T	N	TN	benign
rs11568557	NP_602307	T	S	TS	benign
rs11568563	NP_602307	E	D	ED	benign
rs11568564	NP_602307	R	C	RC	possibly damaging
rs11568564	NP_005066	R	C	RC	probably damaging
rs11568566	NP_005066	N	I	NI	probably damaging
rs11568566	NP_602307	N	I	NI	probably damaging
rs11568567	NP_602307	N	Y	NY	probably damaging
rs11568578	NP_602307	I	V	IV	benign
rs11568579	NP_602307	L	P	LP	possibly damaging
rs11568580	NP_064421	S	I	SI	possibly damaging
rs11568580	NP_003777	S	I	SI	possibly damaging
rs11568584	NP_064421	K	M	KM	benign
rs11568584	NP_003777	K	M	KM	possibly damaging
rs11568588	NP_003777	R	C	RC	benign
rs11568590	NP_003777	Q	R	QR	benign
rs11568591	NP_003777	R	H	RH	possibly damaging
rs11568593	NP_003777	R	G	RG	possibly damaging

rs11568597	NP_003777	R	S	RS	probably damaging
rs11568605	NP_064421	S	F	SF	benign
rs11568605	NP_003777	S	F	SF	benign
rs11568608	NP_064421	S	N	SN	benign
rs11568608	NP_003777	S	N	SN	benign
rs11568609	NP_064421	G	D	GD	benign
rs11568609	NP_003777	G	D	GD	benign
rs11568612	NP_695011	R	W	RW	benign
rs11568612	NP_004781	R	W	RW	benign
rs11568612	NP_695008	R	W	RW	benign
rs11568612	NP_695010	R	W	RW	benign
rs11568612	NP_695009	R	W	RW	benign
rs11568623	NP_695011	I	T	IT	benign
rs11568623	NP_004781	I	T	IT	benign
rs11568623	NP_695008	I	T	IT	benign
rs11568623	NP_695010	I	T	IT	benign
rs11568623	NP_695009	I	T	IT	benign
rs11568624	NP_695011	A	V	AV	benign
rs11568624	NP_004781	A	V	AV	benign
rs11568624	NP_695008	A	V	AV	benign
rs11568624	NP_695010	A	V	AV	benign
rs11568624	NP_695009	A	V	AV	benign
rs11568626	NP_695011	R	H	RH	possibly damaging
rs11568626	NP_004781	R	H	RH	possibly damaging
rs11568626	NP_695008	R	H	RH	possibly damaging
rs11568626	NP_695010	R	H	RH	possibly damaging
rs11568626	NP_695009	R	H	RH	possibly damaging
rs11568627	NP_695011	P	L	PL	probably damaging
rs11568627	NP_004781	P	L	PL	probably damaging
rs11568627	NP_695008	P	L	PL	probably damaging
rs11568627	NP_695010	P	L	PL	probably damaging
rs11568627	NP_695009	P	L	PL	probably damaging
rs11568634	NP_695011	R	Q	RQ	benign
rs11568634	NP_004781	R	Q	RQ	benign
rs11568634	NP_695010	R	H	RH	possibly damaging
rs11568634	NP_695009	R	H	RH	possibly damaging
rs11568634	NP_695008	R	Q	RQ	possibly damaging
rs11568639	NP_005836	R	Q	RQ	benign
rs11568644	NP_005836	T	M	TM	possibly damaging
rs11568653	NP_005836	V	I	VI	benign
rs11568657	NP_005836	M	T	MT	benign
rs11568658	NP_005836	G	W	GW	probably damaging
rs11568659	NP_005836	R	I	RI	probably damaging
rs11568668	NP_005836	G	E	GE	probably damaging
rs11568669	NP_005836	K	E	KE	benign
rs11568673	NP_005836	V	L	VL	benign



rs11568681	NP_005836	I	L	IL	benign
rs11568684	NP_005836	K	E	KE	benign
rs11568688	NP_005836	Q	R	QR	benign
rs11568689	NP_005836	P	A	PA	probably damaging
rs11568692	NP_005836	V	M	VM	benign
rs11568694	NP_005836	V	F	VF	possibly damaging
rs11568697	NP_005836	P	L	PL	benign
rs11568699	NP_005836	I	M	IM	benign
rs11568701	NP_005836	T	M	TM	benign
rs11568705	NP_005836	P	L	PL	possibly damaging
rs11568707	NP_005836	C	S	CS	benign
rs11568719	NP_003045	A	G	AG	benign
rs11568728	NP_000097	G	E	GE	benign
rs11568849	NP_001954	S	R	SR	possibly damaging
rs11568911	NP_001954	D	H	DH	possibly damaging
rs11568943	NP_001954	R	K	RK	benign
rs11568992	NP_001954	S	R	SR	possibly damaging
rs11569017	NP_001954	D	V	DV	possibly damaging
rs11569046	NP_001954	M	T	MT	benign
rs11569086	NP_001954	D	E	DE	benign
rs11569098	NP_001954	L	F	LF	benign
rs11569111	NP_001954	A	G	AG	benign
rs11569200	NP_006277	P	S	PS	benign
rs11569321	NP_690593	S	L	SL	benign
rs11569321	NP_001241	S	L	SL	benign
rs11569409	NP_000055	R	G	RG	benign
rs11569422	NP_000055	E	D	ED	benign
rs11569472	NP_000055	R	K	RK	benign
rs11569534	NP_000055	G	D	GD	benign
rs11569541	NP_000055	I	T	IT	possibly damaging
rs11569636	NP_006218	S	Y	SY	benign
rs11569675	NP_872617	M	I	MI	benign
rs11569675	NP_006218	M	I	MI	benign
rs11569679	NP_003158	A	T	AT	benign
rs11569680	NP_003158	K	E	KE	benign
rs11569681	NP_003158	A	P	AP	benign
rs11569703	NP_005411	A	V	AV	benign
rs11569705	NP_005411	D	Y	DY	benign
rs11569712	NP_005411	P	H	PH	probably damaging
rs11569729	NP_055280	T	M	TM	benign
rs11569736	NP_055280	L	V	LV	benign
rs11569738	XP_497833	K	R	KR	benign
rs11569739	XP_497833	K	E	KE	benign
rs11569740	XP_497833	V	D	VD	possibly damaging
rs11569743	XP_497833	A	T	AT	benign
rs11569744	XP_497833	R	Q	RQ	benign

rs11569746	XP_497833	P	A	PA	possibly damaging
rs11569747	XP_497833	I	M	IM	benign
rs11569757	XP_497833	R	S	RS	benign
rs11569761	XP_497833	R	L	RL	possibly damaging
rs11569763	NP_803564	H	D	HD	probably damaging
rs11569763	NP_001045	H	D	HD	probably damaging
rs11569766	NP_803564	N	S	NS	probably damaging
rs11569766	NP_001045	N	S	NS	probably damaging
rs11569781	NP_002677	N	S	NS	benign
rs11569782	NP_002677	T	A	TA	probably damaging
rs11569783	NP_002677	R	C	RC	benign
rs11569892	NP_001234	C	Y	CY	probably damaging
rs11569913	NP_001234	S	G	SG	benign
rs11570019	NP_068658	E	K	EK	benign
rs11570019	NP_004349	E	K	EK	benign
rs11570019	NP_997695	E	K	EK	benign
rs11570019	NP_068660	E	K	EK	benign
rs11570052	NP_000247	V	I	VI	benign
rs11570060	NP_000247	R	Q	RQ	benign
rs11570076	NP_000247	R	W	RW	probably damaging
rs11570077	NP_000247	L	V	LV	benign
rs11570082	NP_000247	A	T	AT	benign
rs11570112	NP_000247	Q	E	QE	benign
rs11570113	NP_000247	R	C	RC	probably damaging
rs11570146	NP_001183	A	V	AV	benign
rs11570147	NP_001183	I	V	IV	benign
rs11570148	NP_001183	F	V	FV	possibly damaging
rs11570159	NP_001183	C	S	CS	benign
rs11570194	NP_001322	Y	C	YC	probably damaging
rs11570199	NP_001322	R	C	RC	possibly damaging
rs11570222	NP_001322	R	K	RK	benign
rs11570255	NP_996916	A	T	AT	benign
rs11570255	NP_996917	A	T	AT	benign
rs11570255	NP_996915	A	T	AT	benign
rs11570351	NP_996916	A	T	AT	benign
rs11570605	NP_003551	V	I	VI	benign
rs11570606	NP_003551	R	G	RG	benign
rs11570607	NP_003551	R	Q	RQ	possibly damaging
rs11570646	NP_003551	D	N	DN	possibly damaging
rs11570680	NP_003551	A	T	AT	benign
rs11570814	NP_004187	L	P	LP	probably damaging
rs11570886	NP_004187	K	N	KN	benign
rs11570895	NP_000228	A	V	AV	benign
rs11571083	NP_000528	Q	K	QK	benign
rs11571098	NP_000528	R	W	RW	probably damaging
rs11571117	NP_000528	G	R	GR	benign

rs11571143	NP_000917	A	T	AT	benign
rs11571144	NP_000917	A	V	AV	benign
rs11571145	NP_000917	P	L	PL	probably damaging
rs11571146	NP_000917	M	R	MR	probably damaging
rs11571147	NP_000917	C	S	CS	benign
rs11571148	NP_000917	P	L	PL	probably damaging
rs11571149	NP_000917	S	R	SR	benign
rs11571150	NP_000917	A	S	AS	benign
rs11571151	NP_000917	V	L	VL	benign
rs11571152	NP_000917	Q	P	QP	possibly damaging
rs11571222	NP_000917	L	V	LV	benign
rs11571342	NP_000688	R	H	RH	possibly damaging
rs11571421	NP_602296	R	W	RW	probably damaging
rs11571421	NP_602295	R	W	RW	probably damaging
rs11571421	NP_602294	R	W	RW	probably damaging
rs11571512	NP_775299	P	S	PS	possibly damaging
rs11571512	NP_777480	P	S	PS	possibly damaging
rs11571512	NP_733796	P	S	PS	probably damaging
rs11571541	NP_004015	T	M	TM	possibly damaging
rs11571541	NP_001665	T	M	TM	possibly damaging
rs11571640	NP_000050	K	Q	KQ	benign
rs11571653	NP_000050	M	V	MV	benign
rs11571656	NP_000050	S	F	SF	possibly damaging
rs11571657	NP_000050	N	K	NK	benign
rs11571659	NP_000050	V	F	VF	benign
rs11571660	NP_000050	K	R	KR	benign
rs11571707	NP_000050	I	T	IT	possibly damaging
rs11571746	NP_000050	S	P	SP	benign
rs11571747	NP_000050	E	A	EA	possibly damaging
rs11571769	NP_000050	A	T	AT	benign
rs11571831	NP_000050	V	I	VI	benign
rs11571848	NP_000720	G	E	GE	benign
rs11572006	NP_001244	Y	C	YC	possibly damaging
rs11572048	NP_001244	L	F	LF	benign
rs11572080	NP_110518	R	K	RK	benign
rs11572080	NP_000761	R	K	RK	benign
rs11572102	NP_110518	I	V	IV	benign
rs11572102	NP_000761	I	V	IV	benign
rs11572103	NP_110518	I	F	IF	possibly damaging
rs11572103	NP_000761	I	F	IF	probably damaging
rs11572190	NP_000766	R	S	RS	benign
rs11572242	NP_000766	V	M	VM	benign
rs11572243	NP_000766	N	S	NS	possibly damaging
rs11572371	NP_001947	P	L	PL	benign
rs11572693	NP_996318	T	M	TM	benign
rs11572913	NP_001507	M	I	MI	benign

rs11573162	NP_000291	H	Y	HY	possibly damaging
rs11573578	NP_003729	E	Q	EQ	benign
rs11573581	NP_003729	E	K	EK	benign
rs11573586	NP_003729	H	Y	HY	possibly damaging
rs11573590	NP_003729	T	M	TM	possibly damaging
rs11573591	NP_003729	V	M	VM	benign
rs11573598	NP_003729	I	M	IM	benign
rs11573906	NP_002537	V	M	VM	benign
rs11573986	NP_003811	G	E	GE	possibly damaging
rs11574090	NP_000367	L	V	LV	benign
rs11574115	NP_000367	T	I	TI	benign
rs11574151	NP_037489	E	A	EA	possibly damaging
rs11574153	NP_037489	S	G	SG	benign
rs11574222	NP_000544	E	K	EK	benign
rs11574240	NP_000544	N	S	NS	benign
rs11574250	NP_000544	S	C	SC	possibly damaging
rs11574289	NP_000544	S	F	SF	possibly damaging
rs11574323	NP_000544	I	S	IS	possibly damaging
rs11574358	NP_000544	S	A	SA	benign
rs11574395	NP_000544	V	I	VI	benign
rs11574422	NP_002326	V	A	VA	benign
rs11574443	NP_003956	Y	C	YC	probably damaging
rs11574476	NP_079516	A	T	AT	benign
rs11574477	NP_079516	Q	L	QL	probably damaging
rs11574479	NP_079516	T	M	TM	benign
rs11574512	NP_057133	A	V	AV	benign
rs11574527	NP_001188	L	P	LP	possibly damaging
rs11574537	NP_000880	R	S	RS	benign
rs11574542	NP_000880	G	E	GE	possibly damaging
rs11574570	NP_006838	R	S	RS	possibly damaging
rs11574571	NP_006838	G	R	GR	possibly damaging
rs11574575	NP_006838	C	Y	CY	probably damaging
rs11574576	NP_006838	N	D	ND	benign
rs11574589	NP_006838	K	T	KT	benign
rs11574595	NP_006838	R	Q	RQ	benign
rs11574606	NP_006856	S	P	SP	probably damaging
rs11574633	NP_000878	W	R	WR	benign
rs11574657	NP_001771	S	L	SL	benign
rs11574696	NP_001217	A	E	AE	benign
rs11574697	NP_001217	E	K	EK	benign
rs11574885	NP_060087	Q	R	QR	possibly damaging
rs11574936	NP_000585	I	N	IN	probably damaging
rs11574949	NP_002200	V	L	VL	benign
rs11574972	NP_004710	R	Q	RQ	benign
rs11574973	NP_004710	V	L	VL	benign
rs11575046	NP_006128	R	P	RP	probably damaging

rs11575111	NP_620410	A	P	AP	possibly damaging
rs11575194	NP_000590	R	W	RW	benign
rs11575216	NP_001629	A	G	AG	benign
rs11575245	NP_005410	Q	H	QH	benign
rs11575292	NP_000781	E	D	ED	benign
rs11575376	NP_000781	M	L	ML	benign
rs11575377	NP_000781	M	I	MI	benign
rs11575542	NP_000781	R	Q	RQ	benign
rs11575580	NP_004503	R	W	RW	possibly damaging
rs11575584	NP_006655	L	F	LF	benign
rs11575589	NP_671518	P	T	PT	benign
rs11575594	NP_006655	I	V	IV	benign
rs11575688	NP_004123	E	Q	EQ	benign
rs11575750	NP_004123	V	I	VI	benign
rs11575797	NP_006166	A	S	AS	benign
rs11575797	NP_932326	A	S	AS	benign
rs11575798	NP_006166	D	N	DN	benign
rs11575798	NP_932326	D	N	DN	benign
rs11575799	NP_006166	S	G	SG	benign
rs11575799	NP_932326	S	G	SG	benign
rs11575840	NP_667341	A	T	AT	benign
rs11575845	NP_612117	F	L	FL	benign
rs11575845	NP_612116	R	G	RG	benign
rs11575845	NP_079536	R	G	RG	possibly damaging
rs11575848	NP_079537	R	Q	RQ	benign
rs11575856	NP_000905	V	I	VI	benign
rs11575871	NP_055061	L	V	LV	benign
rs11575873	NP_000286	S	R	SR	benign
rs11575874	NP_076917	P	S	PS	benign
rs11575901	NP_067544	A	V	AV	benign
rs11575901	NP_000823	A	V	AV	benign
rs11575901	NP_015566	A	V	AV	benign
rs11575906	NP_002110	R	C	RC	possibly damaging
rs11575907	NP_002111	V	I	VI	benign
rs11575909	NP_066964	N	H	NH	possibly damaging
rs11575913	NP_004575	C	F	CF	probably damaging
rs11575924	NP_000757	R	C	RC	benign
rs11575924	NP_000753	R	C	RC	possibly damaging
rs11575927	NP_703144	R	H	RH	benign
rs11575933	NP_620596	P	S	PS	possibly damaging
rs11575933	NP_620595	P	S	PS	possibly damaging
rs11575933	NP_620594	P	S	PS	possibly damaging
rs11575936	NP_000407	V	M	VM	benign
rs11575937	NP_733822	R	Q	RQ	benign
rs11575937	NP_005563	R	Q	RQ	benign
rs11575937	NP_733821	R	Q	RQ	benign

rs11575947	NP_114400	P	S	PS	benign
rs11575947	NP_061739	P	S	PS	benign
rs11575948	NP_114400	I	L	IL	benign
rs11575948	NP_061739	I	L	IL	benign
rs11575949	NP_114442	A	T	AT	benign
rs11575949	NP_061740	A	T	AT	benign
rs11575950	NP_061740	P	R	PR	possibly damaging
rs11575950	NP_114442	P	R	PR	probably damaging
rs11575951	NP_114442	D	H	DH	benign
rs11575951	NP_061740	D	H	DH	possibly damaging
rs11575953	NP_114475	R	S	RS	benign
rs11575953	NP_061742	R	S	RS	benign
rs11575955	NP_114475	Q	K	QK	probably damaging
rs11575955	NP_061742	Q	K	QK	probably damaging
rs11575958	NP_114478	N	K	NK	benign
rs11575958	NP_054723	N	K	NK	benign
rs11575958	NP_061744	N	K	NK	benign
rs11575958	NP_114477	N	K	NK	benign
rs11575959	NP_054723	S	W	SW	probably damaging
rs11575959	NP_114477	S	W	SW	probably damaging
rs11575960	NP_114478	R	K	RK	benign
rs11575960	NP_061744	R	K	RK	benign
rs11575961	NP_114382	R	H	RH	benign
rs11575961	NP_061735	R	H	RH	benign
rs11575962	NP_114479	G	S	GS	benign
rs11575962	NP_061736	G	S	GS	benign
rs11575963	NP_114479	S	P	SP	benign
rs11575963	NP_061736	S	P	SP	benign
rs11575978	NP_004735	E	K	EK	benign
rs11575982	NP_000065	R	P	RP	probably damaging
rs11575993	NP_000627	L	F	LF	possibly damaging
rs11576032	NP_005347	R	W	RW	probably damaging
rs11576186	NP_733843	S	T	ST	benign
rs11576236	NP_872429	R	P	RP	benign
rs11576236	XP_496349	R	P	RP	possibly damaging
rs11576415	NP_004541	P	A	PA	benign
rs11576601	NP_060555	E	K	EK	benign
rs11576750	NP_055470	S	I	SI	benign
rs11576754	NP_060887	A	D	AD	possibly damaging
rs11576830	NP_689579	S	R	SR	benign
rs11577171	NP_004806	S	Y	SY	benign
rs11577203	NP_005848	L	V	LV	benign
rs11577368	NP_689481	R	S	RS	benign
rs11577457	NP_002146	V	I	VI	benign
rs11577550	XP_496429	R	C	RC	benign
rs11577561	NP_006329	G	R	GR	probably damaging

rs11577561	NP_963924	G	R	GR	probably damaging
rs11577579	NP_877498	I	L	IL	benign
rs11577579	NP_653297	I	L	IL	benign
rs11577731	NP_055270	G	R	GR	probably damaging
rs11577922	XP_496450	A	P	AP	benign
rs11578329	XP_496343	L	V	LV	benign
rs11578329	XP_496345	L	V	LV	benign
rs11578336	NP_116247	S	A	SA	benign
rs11578466	NP_068777	A	G	AG	benign
rs11578590	NP_060555	F	L	FL	possibly damaging
rs11579366	NP_653299	E	Q	EQ	benign
rs11580170	NP_079034	R	Q	RQ	possibly damaging
rs11580250	XP_371222	R	H	RH	benign
rs11580409	XP_371259	L	V	LV	benign
rs11580625	NP_006527	V	I	VI	benign
rs11580727	XP_497714	A	D	AD	benign
rs11580913	NP_689976	L	V	LV	benign
rs11580946	NP_877495	A	V	AV	benign
rs11580946	NP_068779	A	V	AV	benign
rs11581030	XP_497745	R	C	RC	benign
rs11581214	NP_689704	S	C	SC	benign
rs11581433	XP_048104	R	G	RG	possibly damaging
rs11581512	XP_048104	H	R	HR	possibly damaging
rs11581703	NP_003935	A	T	AT	benign
rs11581921	NP_071751	M	I	MI	possibly damaging
rs11581969	NP_006836	A	P	AP	benign
rs11582005	NP_775803	N	S	NS	benign
rs11582343	XP_496343	S	N	SN	benign
rs11582343	XP_496345	S	N	SN	benign
rs11582639	XP_036299	L	I	LI	benign
rs11582653	XP_036299	L	M	LM	benign
rs11582663	NP_112572	R	Q	RQ	benign
rs11582960	NP_653224	R	H	RH	benign
rs11583410	XP_060580	I	S	IS	probably damaging
rs11583463	XP_496357	A	T	AT	benign
rs11583529	NP_079177	V	E	VE	possibly damaging
rs11583680	NP_777596	A	V	AV	benign
rs11583872	XP_114087	Y	S	YS	probably damaging
rs11583882	NP_864764	R	P	RP	possibly damaging
rs11583882	NP_004412	R	P	RP	probably damaging
rs11584104	XP_496428	P	T	PT	possibly damaging
rs11584340	XP_048104	P	S	PS	benign
rs11585135	NP_004144	L	M	LM	benign
rs11585341	NP_005522	K	E	KE	benign
rs11585362	XP_031401	A	V	AV	benign
rs11585481	NP_071761	P	L	PL	probably damaging

rs11586041	NP_060249	G	D	GD	possibly damaging
rs11586116	NP_061821	N	I	NI	possibly damaging
rs11586344	NP_000469	N	S	NS	probably damaging
rs11586631	XP_048104	R	H	RH	probably damaging
rs11586699	NP_061486	T	M	TM	possibly damaging
rs11586699	NP_005553	T	M	TM	possibly damaging
rs11586769	NP_000072	K	T	KT	possibly damaging
rs11587112	NP_060026	S	I	SI	possibly damaging
rs11587640	NP_996991	L	M	LM	benign
rs11587640	NP_004310	L	M	LM	benign
rs11587944	NP_000642	R	C	RC	possibly damaging
rs11587944	NP_000564	R	C	RC	probably damaging
rs11588069	NP_004093	K	R	KR	benign
rs11588132	NP_036519	M	T	MT	benign
rs11588170	XP_048104	G	R	GR	possibly damaging
rs11588581	NP_443128	A	V	AV	benign
rs11588712	NP_068752	P	S	PS	possibly damaging
rs11588753	NP_004275	R	P	RP	possibly damaging
rs11588791	NP_991331	T	S	TS	benign
rs11588791	NP_006343	T	S	TS	benign
rs11588857	NP_006329	P	S	PS	possibly damaging
rs11589593	NP_775780	A	G	AG	benign
rs11589750	NP_008965	T	I	TI	possibly damaging
rs11590012	XP_497666	H	Q	HQ	benign
rs11591147	NP_777596	R	L	RL	possibly damaging
rs11591817	NP_002408	R	Q	RQ	benign
rs11591909	NP_443723	T	P	TP	benign
rs11592166	XP_048898	R	G	RG	possibly damaging
rs11592273	NP_000186	G	W	GW	benign
rs11592273	NP_872577	G	W	GW	possibly damaging
rs11592462	NP_071407	T	S	TS	benign
rs11593253	XP_374765	T	I	TI	benign
rs11593284	NP_079151	P	L	PL	possibly damaging
rs11593544	NP_002304	P	T	PT	possibly damaging
rs11593544	NP_006711	P	T	PT	probably damaging
rs11593766	NP_203124	D	E	DE	benign
rs11593766	NP_203126	D	E	DE	benign
rs11593766	NP_203125	D	E	DE	benign
rs11594063	NP_055860	E	Q	EQ	benign
rs11594277	NP_006405	L	P	LP	possibly damaging
rs11594277	NP_892117	L	P	LP	possibly damaging
rs11594305	NP_689964	N	T	NT	possibly damaging
rs11594445	NP_038479	R	Q	RQ	benign
rs11594445	NP_579899	R	Q	RQ	possibly damaging
rs11595592	NP_005176	L	M	LM	benign
rs11595614	NP_005176	L	M	LM	possibly damaging



rs11595926	NP_057712	S	R	SR	benign
rs11595926	NP_567822	S	R	SR	benign
rs11596653	NP_115967	V	A	VA	benign
rs11598079	NP_002891	V	G	VG	possibly damaging
rs11598233	NP_005054	L	M	LM	benign
rs11598924	NP_003052	A	D	AD	benign
rs11599051	NP_115939	E	K	EK	benign
rs11599060	NP_060546	S	P	SP	benign
rs11599284	NP_003568	G	R	GR	possibly damaging
rs11599755	NP_510870	P	Q	PQ	probably damaging
rs11599956	XP_497306	V	A	VA	benign
rs11600045	XP_084672	L	M	LM	benign
rs11600577	NP_001155	P	H	PH	probably damaging
rs11600577	NP_663722	P	H	PH	probably damaging
rs11600808	NP_002171	A	G	AG	benign
rs11600896	XP_166823	G	S	GS	benign
rs11601245	NP_065174	A	T	AT	benign
rs11601425	NP_110397	R	Q	RQ	benign
rs11601507	NP_149023	V	F	VF	possibly damaging
rs11601507	NP_149083	V	F	VF	possibly damaging
rs11601507	NP_149084	V	F	VF	possibly damaging
rs11601697	XP_171490	Y	C	YC	probably damaging
rs11602499	XP_061624	Q	E	QE	benign
rs11602989	NP_004945	H	P	HP	probably damaging
rs11602989	NP_059672	H	P	HP	probably damaging
rs11603197	XP_291981	V	G	VG	benign
rs11603504	XP_062025	F	L	FL	possibly damaging
rs11603869	NP_775860	E	Q	EQ	benign
rs11603931	NP_003096	V	G	VG	possibly damaging
rs11604149	NP_775860	Q	R	QR	benign
rs11604169	NP_478100	Y	C	YC	probably damaging
rs11604169	NP_036233	Y	C	YC	probably damaging
rs11604287	NP_009114	P	A	PA	probably damaging
rs11604362	NP_653267	I	T	IT	benign
rs11604561	NP_002636	T	A	TA	benign
rs11604671	NP_848605	G	R	GR	benign
rs11604757	XP_290540	G	R	GR	probably damaging
rs11604921	NP_003851	D	A	DA	probably damaging
rs11604985	NP_060327	T	A	TA	benign
rs11604985	NP_060746	T	A	TA	benign
rs11605013	NP_660201	P	H	PH	benign
rs11605196	NP_775860	P	Q	PQ	benign
rs11605407	NP_705839	V	G	VG	possibly damaging
rs11605576	XP_495880	A	D	AD	benign
rs11605632	XP_495880	E	K	EK	benign
rs11606321	NP_064613	Q	P	QP	possibly damaging

rs11606321	NP_955469	Q	P	QP	possibly damaging
rs11606321	NP_955470	Q	P	QP	possibly damaging
rs11606329	NP_068810	C	R	CR	probably damaging
rs11606506	XP_497275	C	Y	CY	possibly damaging
rs11606538	XP_372391	R	K	RK	benign
rs11606831	NP_002413	H	P	HP	probably damaging
rs11606923	NP_775852	V	A	VA	benign
rs11606930	XP_497311	S	F	SF	possibly damaging
rs11607055	NP_006628	L	I	LI	benign
rs11607268	NP_002326	V	L	VL	benign
rs11607340	NP_057404	S	F	SF	possibly damaging
rs11607491	NP_000601	T	M	TM	possibly damaging
rs11607916	NP_006380	N	T	NT	probably damaging
rs11608099	NP_068810	Q	H	QH	possibly damaging
rs11608392	XP_495909	P	L	PL	possibly damaging
rs11608438	NP_005114	P	H	PH	possibly damaging
rs11608915	NP_775109	R	Q	RQ	benign
rs11609192	XP_495917	V	G	VG	possibly damaging
rs11609193	NP_775864	Q	H	QH	benign
rs11609202	XP_495913	C	R	CR	probably damaging
rs11609348	NP_003556	A	T	AT	benign
rs11609900	NP_003035	K	E	KE	possibly damaging
rs11610050	NP_689535	A	D	AD	possibly damaging
rs11611171	NP_005585	K	N	KN	benign
rs11611346	NP_057396	R	H	RH	possibly damaging
rs11611666	NP_776254	V	G	VG	possibly damaging
rs11612427	NP_062832	R	G	RG	benign
rs11612427	NP_055264	R	G	RG	possibly damaging
rs11612641	NP_003569	Q	H	QH	benign
rs11612955	XP_292035	S	A	SA	benign
rs11613495	NP_066276	V	A	VA	benign
rs11613534	NP_863658	A	D	AD	possibly damaging
rs11613534	NP_001151	A	D	AD	possibly damaging
rs11613534	NP_037361	A	D	AD	possibly damaging
rs11613534	NP_863651	A	D	AD	possibly damaging
rs11614210	NP_005430	R	P	RP	probably damaging
rs11614458	NP_005886	Q	H	QH	benign
rs11614935	NP_055318	H	P	HP	probably damaging
rs11614976	NP_000422	G	S	GS	benign
rs11615135	NP_055318	H	P	HP	probably damaging
rs11615287	XP_037557	Q	H	QH	possibly damaging
rs11615567	NP_002196	Q	H	QH	possibly damaging
rs11615709	NP_000915	N	T	NT	possibly damaging
rs11615743	NP_115523	N	I	NI	benign
rs11615957	NP_115676	Q	H	QH	benign
rs11615999	NP_775864	Q	H	QH	benign

rs11616440	NP_064506	Q	R	QR	possibly damaging
rs11616741	XP_375032	L	I	LI	benign
rs11616795	XP_495964	V	I	VI	benign
rs11617079	NP_037370	G	R	GR	benign
rs11617214	NP_001837	T	S	TS	benign
rs11617392	NP_055931	A	S	AS	benign
rs11618209	NP_056111	H	P	HP	probably damaging
rs11618395	NP_055931	G	R	GR	possibly damaging
rs11618506	XP_495949	L	P	LP	possibly damaging
rs11618609	XP_296315	S	C	SC	possibly damaging
rs11620705	NP_009107	V	G	VG	possibly damaging
rs11620852	XP_370765	A	V	AV	benign
rs11621754	XP_292227	E	D	ED	benign
rs11621884	XP_372500	P	A	PA	possibly damaging
rs11622442	XP_372505	V	G	VG	possibly damaging
rs11622776	NP_055564	A	V	AV	benign
rs11622794	XP_292227	T	I	TI	benign
rs11622821	NP_001163	A	D	AD	probably damaging
rs11622969	XP_292227	V	I	VI	benign
rs11623267	XP_370776	E	Q	EQ	benign
rs11624906	NP_891977	D	H	DH	benign
rs11624906	NP_892114	D	H	DH	benign
rs11624906	NP_489479	D	H	DH	benign
rs11624906	NP_150287	D	H	DH	benign
rs11624906	NP_891978	D	H	DH	possibly damaging
rs11625510	XP_495967	L	I	LI	benign
rs11625687	NP_055797	L	I	LI	benign
rs11625690	NP_055797	L	I	LI	benign
rs11625921	NP_777638	I	V	IV	benign
rs11626824	XP_370765	S	T	ST	benign
rs11627944	NP_689539	A	G	AG	benign
rs11627980	NP_689539	L	M	LM	benign
rs11628252	NP_003073	H	P	HP	possibly damaging
rs11628782	NP_055054	V	G	VG	probably damaging
rs11628901	NP_057501	A	T	AT	benign
rs11628996	NP_065099	R	K	RK	benign
rs11629598	NP_060154	I	V	IV	benign
rs11629838	NP_060154	S	Y	SY	benign
rs11630197	XP_208809	W	R	WR	probably damaging
rs11630236	NP_055087	T	A	TA	benign
rs11630617	NP_064595	P	H	PH	possibly damaging
rs11630617	NP_945119	P	H	PH	possibly damaging
rs11630901	NP_056355	R	G	RG	possibly damaging
rs11631813	XP_208809	S	G	SG	benign
rs11633581	XP_370910	I	V	IV	benign
rs11633796	NP_055874	T	I	TI	possibly damaging

rs11634462	NP_065902	L	I	LI	benign
rs11634652	XP_044580	V	F	VF	benign
rs11634784	NP_055874	V	A	VA	benign
rs11635172	NP_055259	L	V	LV	benign
rs11637562	NP_008832	A	V	AV	benign
rs11638283	NP_149017	E	K	EK	benign
rs11638297	XP_370893	T	P	TP	possibly damaging
rs11638390	NP_005145	T	A	TA	benign
rs11638719	NP_742094	L	V	LV	benign
rs11638719	NP_742093	L	V	LV	benign
rs11638719	NP_473361	L	V	LV	benign
rs11638723	NP_689661	P	R	PR	benign
rs11639943	NP_079384	A	V	AV	benign
rs11640138	NP_005416	R	W	RW	probably damaging
rs11640413	NP_003952	G	S	GS	benign
rs11640454	XP_375305	R	Q	RQ	benign
rs11640912	NP_620685	L	I	LI	benign
rs11640912	NP_955387	L	I	LI	benign
rs11641195	NP_078783	A	D	AD	benign
rs11641195	NP_663322	A	D	AD	benign
rs11641195	NP_663323	A	D	AD	benign
rs11641195	NP_757384	A	D	AD	benign
rs11642118	NP_003924	R	H	RH	benign
rs11642210	NP_005178	R	C	RC	probably damaging
rs11642210	NP_787127	R	C	RC	probably damaging
rs11642472	NP_005852	R	C	RC	probably damaging
rs11642546	NP_694971	P	L	PL	possibly damaging
rs11642648	XP_496122	S	F	SF	possibly damaging
rs11642955	NP_689672	H	Y	HY	benign
rs11643018	NP_207837	R	K	RK	benign
rs11643211	NP_620685	Y	H	YH	benign
rs11643211	NP_955387	Y	H	YH	benign
rs11643314	NP_003600	G	W	GW	probably damaging
rs11643507	NP_079463	N	T	NT	benign
rs11643718	NP_000330	R	Q	RQ	benign
rs11643870	NP_067020	V	M	VM	benign
rs11644164	NP_848547	L	P	LP	benign
rs11644502	XP_044632	R	Q	RQ	benign
rs11644733	NP_060850	D	H	DH	benign
rs11644820	NP_705690	R	K	RK	benign
rs11644942	NP_705900	S	T	ST	benign
rs11644996	NP_060900	T	P	TP	benign
rs11645068	NP_060810	H	P	HP	probably damaging
rs11645497	NP_005021	F	L	FL	probably damaging
rs11645625	NP_055526	F	I	FI	benign
rs11645775	NP_060409	H	P	HP	probably damaging

rs11645775	NP_891552	H	P	HP	probably damaging
rs11646374	NP_000126	A	V	AV	benign
rs11646443	NP_758857	R	W	RW	benign
rs11646443	NP_597997	R	W	RW	possibly damaging
rs11648112	NP_570607	E	D	ED	benign
rs11648112	NP_061030	E	D	ED	benign
rs11648131	NP_777584	D	N	DN	benign
rs11648231	XP_498469	L	F	LF	benign
rs11648553	NP_859069	D	N	DN	benign
rs11648553	NP_944497	D	N	DN	benign
rs11648609	NP_055529	R	Q	RQ	benign
rs11648704	NP_115564	S	T	ST	benign
rs11648720	NP_115564	S	I	SI	possibly damaging
rs11648783	NP_036500	H	R	HR	possibly damaging
rs11648852	NP_055959	I	V	IV	benign
rs11649000	NP_115645	L	M	LM	benign
rs11649499	NP_963869	P	R	PR	probably damaging
rs11649511	NP_071895	L	M	LM	benign
rs11649668	XP_497522	D	N	DN	benign
rs11649804	NP_109590	P	T	PT	possibly damaging
rs11649834	XP_496218	T	M	TM	probably damaging
rs11650083	NP_444279	P	Q	PQ	benign
rs11650151	NP_653278	V	G	VG	possibly damaging
rs11650151	NP_945193	V	G	VG	possibly damaging
rs11650318	NP_848666	V	A	VA	benign
rs11650575	NP_036270	N	T	NT	possibly damaging
rs11651118	NP_976226	S	R	SR	benign
rs11651240	XP_371039	P	L	PL	probably damaging
rs11651270	NP_127499	M	V	MV	benign
rs11651270	NP_127500	M	V	MV	benign
rs11651270	NP_055737	M	V	MV	benign
rs11651270	NP_127497	M	V	MV	benign
rs11651295	NP_060003	K	E	KE	possibly damaging
rs11651595	NP_127499	T	S	TS	benign
rs11651595	NP_127500	T	S	TS	benign
rs11651595	NP_055737	T	S	TS	benign
rs11651595	NP_127497	T	S	TS	benign
rs11651675	NP_689681	V	I	VI	benign
rs11651968	NP_689556	V	M	VM	benign
rs11652075	NP_077015	W	R	WR	benign
rs11652447	NP_004749	S	N	SN	benign
rs11652709	NP_000493	Q	H	QH	probably damaging
rs11653658	NP_064547	H	D	HD	probably damaging
rs11653832	NP_127499	V	L	VL	benign
rs11653832	NP_127500	V	L	VL	benign
rs11653832	NP_055737	V	L	VL	benign

rs11653832	NP_127497	V	L	VL	benign
rs11653889	NP_114171	V	E	VE	benign
rs11654604	NP_644814	A	V	AV	benign
rs11654824	NP_775259	I	N	IN	probably damaging
rs11654827	NP_005164	Q	H	QH	probably damaging
rs11654827	NP_777613	Q	H	QH	probably damaging
rs11654827	NP_777614	Q	H	QH	probably damaging
rs11654827	NP_777616	Q	H	QH	probably damaging
rs11654827	NP_777617	Q	H	QH	probably damaging
rs11654827	NP_777618	Q	H	QH	probably damaging
rs11654827	NP_777615	Q	H	QH	probably damaging
rs11655342	NP_872344	A	S	AS	benign
rs11655578	NP_115818	P	H	PH	probably damaging
rs11655622	NP_003725	R	G	RG	probably damaging
rs11655689	NP_694962	V	E	VE	benign
rs11655844	NP_001298	A	D	AD	possibly damaging
rs11655970	NP_064563	E	G	EG	possibly damaging
rs11656500	XP_085578	R	H	RH	possibly damaging
rs11656629	NP_112584	A	V	AV	benign
rs11656660	NP_003725	V	D	VD	probably damaging
rs11656685	NP_003777	A	D	AD	benign
rs11656816	NP_001058	S	I	SI	probably damaging
rs11657051	NP_055775	R	W	RW	benign
rs11657054	NP_699169	A	V	AV	benign
rs11657270	NP_079133	Y	H	YH	benign
rs11657280	NP_525021	S	T	ST	benign
rs11657323	NP_003762	N	T	NT	possibly damaging
rs11657394	NP_689561	P	H	PH	benign
rs11657489	NP_065804	G	S	GS	benign
rs11657747	NP_127499	T	M	TM	benign
rs11657747	NP_127500	T	M	TM	benign
rs11657747	NP_055737	T	M	TM	benign
rs11657804	NP_525021	V	I	VI	benign
rs11657833	NP_000204	D	V	DV	possibly damaging
rs11658069	NP_002607	A	D	AD	benign
rs11658164	NP_060004	S	A	SA	benign
rs11658785	NP_009230	R	M	RM	benign
rs11658785	NP_009231	R	M	RM	benign
rs11658785	NP_009232	R	M	RM	benign
rs11658785	NP_009236	R	M	RM	benign
rs11658785	NP_009235	R	M	RM	benign
rs11658785	NP_009233	R	M	RM	possibly damaging
rs11658785	NP_009227	R	M	RM	possibly damaging
rs11658876	NP_002625	A	S	AS	benign
rs11659145	XP_085578	R	C	RC	possibly damaging
rs11659589	NP_597716	V	G	VG	possibly damaging

rs11660217	NP_003190	M	I	MI	possibly damaging
rs11660370	NP_612384	C	S	CS	possibly damaging
rs11662595	NP_067637	H	R	HR	possibly damaging
rs11664063	NP_005550	A	T	AT	benign
rs11664907	NP_536722	N	S	NS	benign
rs11665084	NP_067637	A	V	AV	benign
rs11665168	XP_497580	Y	C	YC	benign
rs11665978	NP_003420	G	R	GR	benign
rs11666024	NP_005865	H	R	HR	benign
rs11666105	NP_055290	V	A	VA	benign
rs11666150	NP_000225	Q	H	QH	possibly damaging
rs11666245	NP_689573	R	W	RW	possibly damaging
rs11666267	NP_775815	G	S	GS	benign
rs11666293	NP_694989	S	I	SI	benign
rs11666305	NP_009112	Q	H	QH	benign
rs11666699	NP_689492	Q	P	QP	possibly damaging
rs11666735	NP_579803	D	N	DN	benign
rs11666735	NP_579805	D	N	DN	benign
rs11666735	NP_579813	D	N	DN	benign
rs11666735	NP_579814	D	N	DN	benign
rs11666735	NP_001991	D	N	DN	benign
rs11666735	NP_579807	D	N	DN	benign
rs11666735	NP_579808	D	N	DN	benign
rs11666735	NP_579812	D	N	DN	benign
rs11666735	NP_579806	D	N	DN	benign
rs11666876	NP_258429	K	Q	KQ	benign
rs11667007	NP_201574	G	S	GS	benign
rs11667052	NP_065864	M	I	MI	benign
rs11667206	NP_055830	N	T	NT	benign
rs11667275	NP_073574	T	S	TS	benign
rs11667569	NP_085125	A	T	AT	benign
rs11667987	XP_058964	M	L	ML	benign
rs11668239	NP_073589	Q	H	QH	possibly damaging
rs11668325	NP_000225	S	N	SN	benign
rs11668417	XP_496281	R	W	RW	possibly damaging
rs11668502	XP_211460	L	F	LF	benign
rs11668511	NP_542393	L	F	LF	benign
rs11668530	NP_201586	H	Y	HY	probably damaging
rs11668530	NP_443729	H	Y	HY	probably damaging
rs11668547	NP_775750	S	I	SI	benign
rs11668974	NP_006621	V	M	VM	benign
rs11669183	NP_653287	S	A	SA	benign
rs11669257	XP_292832	L	F	LF	benign
rs11669397	NP_003250	R	W	RW	possibly damaging
rs11669576	NP_000518	A	T	AT	benign
rs11669628	NP_060191	A	T	AT	benign

rs11669849	NP_036287	L	V	LV	benign
rs11669918	XP_372730	A	S	AS	benign
rs11670007	NP_039226	R	H	RH	benign
rs11670129	XP_028253	L	M	LM	benign
rs11670246	NP_003420	F	S	FS	benign
rs11670676	NP_742150	M	V	MV	benign
rs11670727	NP_004842	A	T	AT	benign
rs11670799	NP_000426	P	L	PL	probably damaging
rs11670862	NP_003410	S	T	ST	benign
rs11670988	NP_653286	R	Q	RQ	benign
rs11671067	NP_064555	E	D	ED	benign
rs11671490	NP_999841	S	I	SI	possibly damaging
rs11671490	NP_999840	S	I	SI	probably damaging
rs11671530	NP_009185	E	K	EK	benign
rs11671752	NP_002507	T	P	TP	possibly damaging
rs11671789	NP_056952	H	R	HR	benign
rs11671789	NP_055326	H	R	HR	benign
rs11672238	XP_047550	T	K	TK	benign
rs11672248	NP_004741	R	K	RK	benign
rs11673029	NP_079303	S	G	SG	benign
rs11673144	NP_055033	P	L	PL	benign
rs11673178	NP_006855	M	I	MI	benign
rs11673395	NP_037512	P	S	PS	possibly damaging
rs11673423	XP_371145	G	R	GR	probably damaging
rs11673538	XP_292832	F	S	FS	benign
rs11673683	NP_938075	L	F	LF	benign
rs11673683	NP_938074	L	F	LF	benign
rs11673683	NP_001527	L	F	LF	benign
rs11674973	NP_004516	R	M	RM	possibly damaging
rs11675632	NP_008818	G	S	GS	benign
rs11676272	NP_004027	P	S	PS	possibly damaging
rs11677099	NP_997404	D	V	DV	probably damaging
rs11677451	NP_060903	V	E	VE	possibly damaging
rs11677577	NP_004535	V	G	VG	probably damaging
rs11677877	NP_112734	H	R	HR	possibly damaging
rs11680012	NP_004726	R	T	RT	benign
rs11680495	NP_733772	V	A	VA	benign
rs11680854	NP_072174	I	M	IM	benign
rs11681366	NP_061854	Y	C	YC	probably damaging
rs11681642	NP_001683	M	T	MT	benign
rs11681826	XP_371486	M	V	MV	benign
rs11682593	NP_055184	H	D	HD	probably damaging
rs11683690	XP_297687	H	Y	HY	benign
rs11684353	NP_085054	G	A	GA	benign
rs11685665	NP_742066	R	G	RG	possibly damaging
rs11686014	XP_114222	M	I	MI	benign



rs11686205	NP_002290	P	L	PL	probably damaging
rs11686212	NP_057114	S	G	SG	benign
rs11686946	XP_291001	Q	R	QR	possibly damaging
rs11686957	NP_071898	R	C	RC	benign
rs11687611	NP_997639	S	R	SR	benign
rs11687611	NP_997640	S	R	SR	benign
rs11687611	NP_997641	S	R	SR	benign
rs11687611	NP_997643	S	R	SR	benign
rs11687611	NP_997647	S	R	SR	benign
rs11687611	NP_002017	S	R	SR	possibly damaging
rs11689281	NP_061144	L	R	LR	benign
rs11689281	NP_878267	L	R	LR	benign
rs11689899	NP_079245	R	M	RM	benign
rs11691572	NP_004291	K	N	KN	benign
rs11691572	NP_009030	K	N	KN	benign
rs11691799	XP_497859	W	R	WR	probably damaging
rs11692021	NP_061950	W	R	WR	benign
rs11692435	NP_005726	A	V	AV	benign
rs11693182	NP_008977	E	D	ED	benign
rs11694988	NP_689730	H	R	HR	benign
rs11695248	NP_061144	A	V	AV	benign
rs11695248	NP_878267	A	V	AV	benign
rs11695455	NP_003844	D	G	DG	possibly damaging
rs11695788	NP_954674	D	H	DH	probably damaging
rs11695925	NP_055483	Y	C	YC	probably damaging
rs11696231	NP_006593	P	L	PL	probably damaging
rs11696252	NP_006593	P	H	PH	probably damaging
rs11696307	NP_872325	T	I	TI	benign
rs11696673	NP_116781	P	L	PL	probably damaging
rs11696694	NP_004526	N	I	NI	probably damaging
rs11696866	XP_066058	V	G	VG	possibly damaging
rs11697054	NP_001307	Q	H	QH	possibly damaging
rs11697581	XP_046437	G	S	GS	possibly damaging
rs11698783	NP_002522	A	V	AV	benign
rs11699009	NP_872325	F	L	FL	benign
rs11699426	NP_000952	V	G	VG	possibly damaging
rs11699758	NP_005551	V	I	VI	benign
rs11699859	XP_028810	T	I	TI	possibly damaging
rs11699901	NP_848586	F	C	FC	probably damaging
rs11700112	NP_817127	R	P	RP	possibly damaging
rs11700220	NP_056481	H	R	HR	probably damaging
rs11700812	NP_000062	R	H	RH	possibly damaging
rs11701137	XP_497774	I	V	IV	benign
rs11701322	NP_061817	S	C	SC	benign
rs11701643	NP_001227	D	V	DV	benign
rs11702567	XP_497774	L	V	LV	benign

rs11702993	NP_037510	Q	H	QH	benign
rs11703011	NP_705837	G	D	GD	possibly damaging
rs11703160	NP_057419	T	P	TP	benign
rs11703226	NP_065194	A	T	AT	benign
rs11703442	XP_496486	R	G	RG	benign
rs11703526	NP_008863	V	L	VL	benign
rs11703526	NP_599031	V	L	VL	benign
rs11703526	NP_599032	V	L	VL	benign
rs11703652	XP_496526	L	I	LI	benign
rs11703684	XP_496521	V	I	VI	benign
rs11704463	XP_377716	D	A	DA	possibly damaging
rs11704506	NP_055061	A	T	AT	benign
rs11704519	XP_377716	R	K	RK	benign
rs11704758	NP_002296	E	Q	EQ	benign
rs11704759	XP_037759	V	A	VA	benign
rs11704880	XP_496518	V	M	VM	benign
rs11704935	NP_055955	V	M	VM	benign
rs11705106	NP_006730	S	A	SA	benign
rs11705259	NP_689825	A	T	AT	benign
rs11705271	NP_056182	S	N	SN	benign
rs11705288	XP_066243	G	S	GS	benign
rs11705551	NP_006595	L	M	LM	benign
rs11706273	NP_060828	P	L	PL	possibly damaging
rs11707167	XP_293633	Q	R	QR	benign
rs11707331	NP_006505	P	L	PL	benign
rs11707648	XP_497912	I	V	IV	benign
rs11708029	NP_705899	L	V	LV	benign
rs11708178	NP_055665	P	H	PH	probably damaging
rs11708369	XP_497937	L	S	LS	benign
rs11708427	NP_005679	Q	H	QH	possibly damaging
rs11708527	NP_115968	P	L	PL	probably damaging
rs11710339	NP_064627	T	S	TS	benign
rs11710967	NP_001342	T	A	TA	benign
rs11711050	NP_061092	G	S	GS	benign
rs11711157	XP_209550	V	M	VM	benign
rs11711349	XP_067448	E	Q	EQ	benign
rs11711871	NP_919269	H	P	HP	benign
rs11711953	NP_002366	R	Q	RQ	benign
rs11711953	NP_112147	R	Q	RQ	benign
rs11712232	XP_209550	S	N	SN	benign
rs11712950	XP_047357	E	G	EG	benign
rs11714841	NP_061127	D	N	DN	benign
rs11715493	NP_776160	H	R	HR	benign
rs11715981	NP_473451	P	L	PL	probably damaging
rs11716852	NP_057643	E	K	EK	benign
rs11716994	XP_291054	S	L	SL	possibly damaging

rs11717039	XP_171032	C	R	CR	probably damaging
rs11717113	NP_002962	A	G	AG	benign
rs11717165	NP_852137	G	R	GR	possibly damaging
rs11717165	NP_612419	G	R	GR	possibly damaging
rs11717585	XP_371655	D	E	DE	benign
rs11717889	XP_371681	D	Y	DY	probably damaging
rs11718329	NP_057173	R	T	RT	benign
rs11718848	NP_002069	Q	K	QK	benign
rs11719086	XP_291055	R	K	RK	benign
rs11719133	XP_371622	V	G	VG	benign
rs11719981	NP_703190	A	V	AV	benign
rs11719981	NP_703191	A	V	AV	benign
rs11719981	NP_116121	A	V	AV	benign
rs11720059	XP_497937	R	Q	RQ	possibly damaging
rs11720139	XP_291064	R	G	RG	possibly damaging
rs11720526	XP_371614	R	I	RI	probably damaging
rs11720886	NP_006605	A	T	AT	benign
rs11720962	NP_079439	P	R	PR	probably damaging
rs11721074	NP_036403	A	D	AD	benign
rs11721074	NP_054878	A	D	AD	benign
rs11721104	NP_009115	Q	H	QH	benign
rs11721218	NP_002213	E	Q	EQ	benign
rs11721265	NP_653234	L	M	LM	benign
rs11721639	NP_005926	V	G	VG	possibly damaging
rs11722461	NP_005246	I	V	IV	benign
rs11722476	NP_064544	S	N	SN	benign
rs11723368	NP_055637	F	I	FI	probably damaging
rs11723410	NP_064544	S	F	SF	benign
rs11724347	NP_003319	R	Q	RQ	possibly damaging
rs11725880	NP_861524	P	S	PS	possibly damaging
rs11726117	NP_079420	T	M	TM	benign
rs11726970	NP_006783	N	D	ND	benign
rs11728107	XP_496692	V	M	VM	benign
rs11729797	NP_079420	K	R	KR	benign
rs11731231	NP_065824	E	Q	EQ	benign
rs11732377	NP_689991	V	G	VG	possibly damaging
rs11733183	NP_938022	P	S	PS	possibly damaging
rs11734353	NP_938022	L	V	LV	benign
rs11734372	XP_044461	M	T	MT	benign
rs11734376	NP_079225	V	F	VF	benign
rs11735477	NP_115512	Q	H	QH	benign
rs11736799	NP_819056	V	M	VM	benign
rs11736872	NP_733828	A	T	AT	benign
rs11738640	NP_005564	K	N	KN	possibly damaging
rs11739136	NP_004128	E	K	EK	benign
rs11739508	NP_003655	E	D	ED	benign

rs11739693	NP_001438	G	A	GA	benign
rs11740179	NP_000405	I	V	IV	benign
rs11740603	XP_371778	R	L	RL	benign
rs11741593	NP_001360	A	D	AD	benign
rs11742049	NP_938023	R	H	RH	benign
rs11742646	NP_776189	E	Q	EQ	benign
rs11743570	XP_209700	D	H	DH	possibly damaging
rs11743574	XP_209700	E	K	EK	benign
rs11744680	NP_114062	R	S	RS	benign
rs11744680	NP_061734	R	S	RS	benign
rs11745088	NP_037541	E	Q	EQ	benign
rs11745117	XP_499223	V	A	VA	benign
rs11745337	NP_056392	L	F	LF	benign
rs11745410	XP_376444	L	V	LV	benign
rs11745542	XP_498015	I	T	IT	probably damaging
rs11745614	NP_004376	S	C	SC	possibly damaging
rs11745656	NP_006697	S	Y	SY	possibly damaging
rs11746232	NP_005566	I	V	IV	benign
rs11746993	XP_371758	S	P	SP	probably damaging
rs11747021	XP_371758	V	A	VA	possibly damaging
rs11747519	NP_490645	R	Q	RQ	benign
rs11747519	NP_114139	R	Q	RQ	benign
rs11747630	NP_003624	T	N	TN	benign
rs11748164	XP_114432	E	A	EA	benign
rs11748836	NP_061161	E	K	EK	benign
rs11749126	NP_598377	Y	F	YF	benign
rs11750176	NP_061759	D	A	DA	probably damaging
rs11750538	NP_036466	R	W	RW	benign
rs11750810	NP_061763	L	F	LF	benign
rs11750814	NP_006687	T	M	TM	benign
rs11750814	NP_899203	T	M	TM	benign
rs11750814	NP_631938	T	M	TM	benign
rs11750821	NP_055059	R	H	RH	benign
rs11751058	NP_055438	A	D	AD	benign
rs11751765	NP_277037	D	N	DN	benign
rs11751765	NP_060885	D	N	DN	benign
rs11751765	NP_277036	D	N	DN	benign
rs11752313	XP_498152	G	D	GD	possibly damaging
rs11752608	NP_039224	V	G	VG	benign
rs11753059	XP_376479	P	H	PH	probably damaging
rs11753382	NP_739575	G	C	GC	possibly damaging
rs11753382	NP_079512	G	C	GC	possibly damaging
rs11753622	NP_997465	V	G	VG	possibly damaging
rs11753862	XP_048070	L	S	LS	possibly damaging
rs11754061	NP_001701	S	A	SA	benign
rs11754169	XP_371797	G	R	GR	benign

rs11754288	NP_005486	A	T	AT	benign
rs11755182	XP_498078	R	S	RS	possibly damaging
rs11755393	NP_060224	Q	R	QR	benign
rs11755848	NP_055267	L	I	LI	benign
rs11756238	XP_371809	G	S	GS	benign
rs11756977	NP_899236	R	H	RH	benign
rs11756977	NP_056363	R	H	RH	possibly damaging
rs11757455	NP_002281	R	W	RW	probably damaging
rs11758242	NP_067044	S	Y	SY	possibly damaging
rs11758339	NP_899236	A	T	AT	benign
rs11758339	NP_056363	A	T	AT	benign
rs11758592	XP_166300	A	S	AS	benign
rs11758960	NP_001081	V	E	VE	possibly damaging
rs11759232	NP_061978	R	M	RM	possibly damaging
rs11759570	NP_005882	K	R	KR	benign
rs11760885	XP_166571	L	V	LV	benign
rs11760975	XP_291208	S	T	ST	benign
rs11761306	NP_839956	N	D	ND	benign
rs11761888	NP_525124	S	L	SL	benign
rs11761941	NP_612454	G	E	GE	benign
rs11762014	NP_056210	P	L	PL	possibly damaging
rs11762417	NP_055211	C	R	CR	probably damaging
rs11762417	NP_542198	C	R	CR	probably damaging
rs11764583	XP_496860	T	I	TI	benign
rs11765019	NP_775836	Y	C	YC	probably damaging
rs11765552	NP_055731	L	M	LM	benign
rs11765961	NP_525124	S	G	SG	benign
rs11766187	NP_569709	P	L	PL	probably damaging
rs11766501	NP_003487	S	C	SC	possibly damaging
rs11766509	NP_003487	S	R	SR	benign
rs11766611	XP_166527	V	M	VM	benign
rs11766782	NP_857597	T	N	TN	benign
rs11768296	NP_663160	M	V	MV	benign
rs11768296	NP_663161	M	V	MV	benign
rs11768296	NP_663162	M	V	MV	benign
rs11768296	NP_663163	M	V	MV	benign
rs11768296	NP_663164	M	V	MV	benign
rs11768296	NP_056365	M	V	MV	benign
rs11768465	NP_277041	T	M	TM	benign
rs11768472	XP_376609	D	H	DH	possibly damaging
rs11768549	NP_005223	R	Q	RQ	benign
rs11769006	NP_954655	D	A	DA	probably damaging
rs11769006	NP_001715	D	A	DA	probably damaging
rs11769911	NP_061188	R	Q	RQ	benign
rs11770052	NP_872310	N	I	NI	possibly damaging
rs11770084	NP_689957	E	D	ED	benign

rs11770627	XP_376587	P	A	PA	probably damaging
rs11770649	NP_001120	D	E	DE	benign
rs11771379	NP_861440	D	V	DV	possibly damaging
rs11771635	NP_067053	S	N	SN	benign
rs11771635	NP_733751	S	N	SN	benign
rs11771799	NP_839956	I	T	IT	benign
rs11772411	XP_166527	L	Q	LQ	possibly damaging
rs11773032	NP_000730	G	S	GS	benign
rs11773132	NP_945194	A	T	AT	benign
rs11773363	XP_088140	P	A	PA	possibly damaging
rs11773504	NP_055266	A	T	AT	benign
rs11773504	NP_940820	A	T	AT	benign
rs11774228	XP_044622	V	I	VI	benign
rs11774978	NP_001001481	S	N	SN	benign
rs11774978	NP_060769	S	N	SN	benign
rs11775636	NP_991108	A	V	AV	benign
rs11777194	XP_291266	G	R	GR	probably damaging
rs11778314	NP_991108	R	Q	RQ	benign
rs11778936	NP_065208	L	I	LI	benign
rs11778936	NP_065209	L	I	LI	benign
rs11778936	NP_000028	L	I	LI	benign
rs11778936	NP_065210	L	I	LI	benign
rs11779866	XP_294387	C	Y	CY	probably damaging
rs11780509	XP_294387	R	K	RK	benign
rs11781942	XP_372063	R	C	RC	benign
rs11784175	XP_294387	N	Y	NY	possibly damaging
rs11784192	XP_294387	I	V	IV	benign
rs11784582	NP_079446	D	N	DN	possibly damaging
rs11784582	NP_079146	D	N	DN	possibly damaging
rs11786471	NP_478136	G	A	GA	benign
rs11788702	XP_088459	A	T	AT	benign
rs11788921	NP_005085	P	S	PS	possibly damaging
rs11789099	NP_982272	E	K	EK	benign
rs11789780	NP_849150	G	D	GD	possibly damaging
rs11790644	XP_374297	L	F	LF	benign
rs11790968	NP_006561	I	M	IM	benign
rs11791045	NP_036568	C	R	CR	benign
rs11791045	NP_758516	C	R	CR	probably damaging
rs11791683	NP_689499	G	S	GS	benign
rs11791754	XP_029962	L	V	LV	benign
rs11792065	NP_003118	Q	R	QR	benign
rs11792214	NP_002723	F	L	FL	probably damaging
rs11793196	NP_036276	V	I	VI	benign
rs11793927	XP_376830	T	P	TP	benign
rs11794148	XP_372128	K	E	KE	benign
rs11794210	NP_005038	D	N	DN	possibly damaging

rs11794921	NP_387504	A	S	AS	benign
rs11795021	NP_036568	C	Y	CY	benign
rs11795021	NP_758516	C	Y	CY	probably damaging
rs11795057	NP_758516	P	A	PA	possibly damaging
rs11795057	NP_036568	P	A	PA	possibly damaging
rs11795316	NP_066011	D	A	DA	possibly damaging
rs11795404	NP_055129	S	I	SI	possibly damaging
rs11795910	NP_689845	A	T	AT	benign
rs11796620	NP_689410	G	S	GS	benign
rs11796620	NP_689412	G	S	GS	benign
rs11796620	NP_689409	G	S	GS	benign
rs11796785	XP_372199	H	P	HP	probably damaging
rs11797118	NP_689794	T	I	TI	benign
rs11797456	NP_066943	G	S	GS	benign
rs11798104	NP_068576	W	C	WC	probably damaging
rs11798214	XP_298045	S	C	SC	benign
rs11798342	NP_000381	V	A	VA	benign
rs11798742	XP_377073	P	S	PS	probably damaging
rs11798742	NP_878908	P	S	PS	probably damaging
rs11798756	XP_377073	L	V	LV	benign
rs11798756	NP_878908	L	V	LV	benign
rs11798842	NP_005384	L	F	LF	benign
rs11799215	NP_004645	R	K	RK	benign
rs11799647	NP_000245	I	V	IV	benign
rs11799951	NP_031374	A	V	AV	benign
rs11799966	NP_076427	F	S	FS	possibly damaging
rs11799995	XP_114067	R	C	RC	possibly damaging
rs11800088	NP_037485	N	S	NS	possibly damaging
rs11800305	NP_060530	I	V	IV	benign
rs11800462	NP_683866	D	G	DG	benign
rs11800462	NP_683867	D	G	DG	benign
rs11800462	NP_683868	D	G	DG	benign
rs11800462	NP_683869	D	G	DG	benign
rs11800462	NP_683870	D	G	DG	benign
rs11800462	NP_683872	D	G	DG	benign
rs11800462	NP_683874	D	G	DG	benign
rs11800462	NP_683873	D	G	DG	possibly damaging
rs11800891	XP_375682	V	I	VI	benign
rs11802875	NP_663735	L	S	LS	benign
rs11802902	NP_060204	H	Q	HQ	benign
rs11803515	XP_036299	P	S	PS	possibly damaging
rs11803802	NP_775845	G	C	GC	probably damaging
rs11804131	NP_003030	T	S	TS	possibly damaging
rs11804152	NP_000560	V	E	VE	possibly damaging
rs11804257	NP_000553	E	K	EK	benign
rs11804414	NP_839943	Q	H	QH	possibly damaging

rs11805194	NP_060700	I	V	IV	benign
rs11805972	NP_005549	P	Q	PQ	possibly damaging
rs11806371	NP_689705	P	L	PL	probably damaging
rs11806812	NP_005540	N	S	NS	benign
rs11807350	NP_005090	R	K	RK	benign
rs11807956	NP_000636	A	T	AT	benign
rs11807956	NP_000637	A	T	AT	benign
rs11807956	NP_000635	A	T	AT	benign
rs11808092	XP_496371	Q	H	QH	possibly damaging
rs11808228	NP_060754	V	A	VA	benign
rs11809887	NP_015563	I	V	IV	benign
rs11809887	NP_015562	I	V	IV	benign
rs11809887	NP_004790	I	V	IV	benign
rs11812769	XP_374765	P	L	PL	probably damaging
rs11812966	NP_071346	R	K	RK	benign
rs11813789	NP_005019	L	I	LI	benign
rs11815728	NP_071760	V	L	VL	benign
rs11815732	NP_660207	E	Q	EQ	benign
rs11817391	NP_997255	S	L	SL	possibly damaging
rs11817448	NP_620311	A	S	AS	benign
rs11817448	NP_055391	A	S	AS	benign
rs11817448	NP_620310	A	S	AS	benign
rs11818358	NP_079079	G	A	GA	benign
rs11818372	NP_079079	Q	H	QH	possibly damaging
rs11818724	NP_055704	Q	R	QR	benign
rs11818820	XP_374831	K	Q	KQ	benign
rs11819496	NP_056305	R	T	RT	probably damaging
rs11819601	NP_775104	I	V	IV	benign
rs11819656	NP_003165	C	W	CW	probably damaging
rs11819656	NP_068506	C	W	CW	probably damaging
rs11819837	NP_940876	T	P	TP	benign
rs11820003	NP_006148	V	I	VI	benign
rs11820589	NP_116114	P	L	PL	probably damaging
rs11821058	XP_495895	V	G	VG	probably damaging
rs11822318	NP_001633	Q	R	QR	possibly damaging
rs11822837	NP_004299	R	C	RC	probably damaging
rs11823114	NP_689849	A	T	AT	benign
rs11823170	XP_096472	L	R	LR	benign
rs11823314	XP_495872	V	A	VA	benign
rs11823569	NP_473371	V	I	VI	benign
rs11823828	XP_372368	F	L	FL	benign
rs11823842	XP_372368	F	L	FL	benign
rs11824499	NP_000363	N	I	NI	probably damaging
rs11824708	NP_612202	D	Y	DY	probably damaging
rs11825056	NP_113606	L	V	LV	benign
rs11825253	XP_495874	G	E	GE	probably damaging



rs11825834	NP_005133	G	R	GR	possibly damaging
rs11825964	XP_291859	Y	H	YH	benign
rs11826041	XP_090203	N	S	NS	benign
rs11826199	NP_659455	P	R	PR	probably damaging
rs11826236	NP_078833	D	N	DN	benign
rs11826502	NP_000363	P	L	PL	probably damaging
rs11826569	XP_173132	V	I	VI	benign
rs11826683	NP_569710	R	H	RH	benign
rs11826683	NP_005691	R	H	RH	benign
rs11826878	XP_372424	S	A	SA	benign
rs11827140	XP_290517	G	R	GR	possibly damaging
rs11827177	XP_495878	V	G	VG	possibly damaging
rs11827718	NP_849156	E	K	EK	benign
rs11827843	XP_372437	T	M	TM	benign
rs11828133	NP_620599	A	D	AD	possibly damaging
rs11828459	NP_055880	D	N	DN	benign
rs11828782	XP_291980	R	L	RL	benign
rs11828801	NP_733840	S	P	SP	benign
rs11828801	NP_078894	S	P	SP	benign
rs11829948	NP_008828	A	V	AV	benign
rs11830660	NP_055585	S	N	SN	benign
rs11831360	NP_997228	A	G	AG	benign
rs11831931	XP_374989	L	F	LF	benign
rs11832940	XP_171581	A	S	AS	possibly damaging
rs11832979	XP_291989	V	G	VG	possibly damaging
rs11833101	NP_995324	A	V	AV	benign
rs11833399	NP_002141	R	Q	RQ	possibly damaging
rs11833801	NP_942122	V	M	VM	benign
rs11834413	NP_001231	D	N	DN	benign
rs11834471	XP_290598	G	R	GR	possibly damaging
rs11834625	NP_777602	L	S	LS	benign
rs11834933	NP_666018	F	V	FV	benign
rs11835301	NP_055435	R	L	RL	probably damaging
rs11835301	NP_705897	R	L	RL	probably damaging
rs11835321	XP_171581	M	T	MT	probably damaging
rs11835821	NP_689853	T	S	TS	benign
rs11836060	NP_775862	R	Q	RQ	benign
rs11836126	NP_005545	P	S	PS	probably damaging
rs11836979	NP_976328	D	A	DA	probably damaging
rs11837038	NP_055523	V	G	VG	possibly damaging
rs11837375	NP_689985	A	S	AS	benign
rs11837584	NP_000543	C	F	CF	probably damaging
rs11838055	NP_076408	T	M	TM	benign
rs11838270	NP_003267	K	E	KE	benign
rs11839380	NP_055178	K	R	KR	benign
rs11840035	NP_079255	A	S	AS	benign

rs11840163	NP_056382	Q	P	QP	benign
rs11840292	XP_062890	I	T	IT	probably damaging
rs11841997	NP_004120	M	I	MI	benign
rs11842935	NP_006484	E	A	EA	benign
rs11843478	NP_112173	D	A	DA	possibly damaging
rs11844594	XP_370769	L	P	LP	probably damaging
rs11844617	XP_495998	P	T	PT	benign
rs11845046	NP_473365	I	M	IM	benign
rs11845272	NP_055389	S	A	SA	benign
rs11845640	NP_004265	A	V	AV	benign
rs11845676	XP_375105	A	T	AT	benign
rs11846317	NP_056120	T	P	TP	benign
rs11846740	XP_090885	A	V	AV	benign
rs11846991	NP_006246	D	Y	DY	probably damaging
rs11847151	NP_002462	L	M	LM	benign
rs11848004	XP_495998	A	T	AT	benign
rs11848295	NP_777573	P	S	PS	possibly damaging
rs11848954	NP_689658	G	A	GA	benign
rs11850175	NP_954874	P	A	PA	benign
rs11850175	NP_954993	P	A	PA	benign
rs11850175	NP_872315	P	A	PA	benign
rs11850949	XP_290629	L	V	LV	benign
rs11851376	NP_004230	R	K	RK	benign
rs11852063	XP_050278	A	V	AV	benign
rs11852361	NP_000048	P	L	PL	probably damaging
rs11854184	NP_055516	V	L	VL	benign
rs11854484	NP_004203	P	L	PL	benign
rs11855663	NP_150253	A	T	AT	benign
rs11855663	NP_002666	A	T	AT	benign
rs11855663	NP_150241	A	T	AT	benign
rs11855663	NP_150252	A	T	AT	benign
rs11855663	NP_150242	A	T	AT	benign
rs11855663	NP_150247	A	T	AT	benign
rs11855663	NP_150243	A	T	AT	benign
rs11856476	XP_085234	S	F	SF	benign
rs11857283	XP_031744	P	S	PS	benign
rs11857384	NP_653199	R	H	RH	benign
rs11857527	NP_689549	S	P	SP	possibly damaging
rs11857531	XP_372548	D	N	DN	possibly damaging
rs11857906	NP_997400	R	H	RH	possibly damaging
rs11858113	NP_733468	T	M	TM	benign
rs11858113	NP_653091	T	M	TM	benign
rs11858145	XP_375185	G	V	GV	possibly damaging
rs11858624	NP_056432	P	H	PH	probably damaging
rs11859030	NP_006653	S	Y	SY	benign
rs11859950	XP_375358	V	M	VM	benign

rs11860042	XP_377407	A	T	AT	benign
rs11860295	XP_290684	T	I	TI	benign
rs11860456	NP_659461	D	E	DE	benign
rs11860946	NP_659461	H	Q	HQ	benign
rs11861251	NP_000623	M	T	MT	benign
rs11861325	XP_085347	S	C	SC	benign
rs11861980	NP_001162	R	G	RG	possibly damaging
rs11862366	XP_085347	S	T	ST	benign
rs11862754	NP_000503	L	M	LM	benign
rs11863511	NP_002475	E	A	EA	benign
rs11863893	NP_003357	R	H	RH	benign
rs11863919	NP_055309	M	I	MI	benign
rs11864149	NP_057235	R	H	RH	benign
rs11864159	NP_079123	T	I	TI	benign
rs11864319	XP_372648	A	V	AV	benign
rs11864607	NP_004195	V	I	VI	benign
rs11864607	NP_683721	V	I	VI	benign
rs11865305	XP_497515	R	K	RK	possibly damaging
rs11865588	NP_079136	D	N	DN	benign
rs11865916	NP_777584	V	I	VI	benign
rs11866302	NP_757384	A	P	AP	possibly damaging
rs11867457	NP_057070	L	P	LP	possibly damaging
rs11867613	XP_371018	L	P	LP	possibly damaging
rs11867613	XP_085606	L	P	LP	possibly damaging
rs11867808	NP_003940	R	W	RW	possibly damaging
rs11867874	NP_001131	L	P	LP	possibly damaging
rs11868111	NP_004515	A	T	AT	possibly damaging
rs11868727	NP_056109	R	K	RK	benign
rs11868877	XP_375397	V	M	VM	benign
rs11868942	XP_496245	I	L	IL	benign
rs11868946	XP_085578	E	G	EG	possibly damaging
rs11870172	NP_071908	N	T	NT	possibly damaging
rs11870245	NP_006669	T	I	TI	possibly damaging
rs11870360	NP_009133	S	L	SL	possibly damaging
rs11870434	NP_055613	T	P	TP	possibly damaging
rs11870440	NP_004862	A	T	AT	benign
rs11870627	NP_997229	G	R	GR	possibly damaging
rs11870983	NP_001363	K	R	KR	benign
rs11871037	NP_001363	K	N	KN	possibly damaging
rs11871287	NP_057315	V	A	VA	benign
rs11871553	XP_496245	K	R	KR	benign
rs11872089	XP_496215	E	Q	EQ	benign
rs11872364	NP_005550	K	E	KE	benign
rs11872520	NP_075563	R	Q	RQ	possibly damaging
rs11872520	NP_613074	R	Q	RQ	possibly damaging
rs11873372	XP_497598	G	R	GR	possibly damaging

rs11873969	NP_001935	S	I	SI	possibly damaging
rs11874468	NP_056025	K	Q	KQ	benign
rs11874681	NP_817123	A	T	AT	benign
rs11876200	NP_002638	F	V	FV	possibly damaging
rs11878056	XP_497598	P	L	PL	probably damaging
rs11878524	NP_078967	E	K	EK	benign
rs11878540	NP_787106	N	D	ND	benign
rs11878617	NP_777607	R	S	RS	benign
rs11879148	NP_000225	P	L	PL	possibly damaging
rs11879305	XP_290865	A	V	AV	benign
rs11879402	NP_003191	T	A	TA	benign
rs11879465	NP_006376	A	V	AV	benign
rs11879465	NP_942152	A	V	AV	benign
rs11879620	NP_057524	T	A	TA	benign
rs11879710	NP_000914	R	W	RW	probably damaging
rs11879884	XP_496314	Q	P	QP	possibly damaging
rs11880024	XP_497637	G	S	GS	benign
rs11880031	NP_620129	L	V	LV	benign
rs11880084	NP_036446	L	F	LF	benign
rs11880084	NP_839942	L	F	LF	benign
rs11880090	NP_036446	S	L	SL	benign
rs11880090	NP_839942	S	L	SL	benign
rs11880184	XP_065153	T	A	TA	benign
rs11880330	NP_037492	K	E	KE	benign
rs11880551	NP_066296	L	V	LV	benign
rs11880658	NP_114429	G	R	GR	benign
rs11880694	XP_375553	A	V	AV	benign
rs11880771	NP_065863	E	K	EK	benign
rs11880853	XP_497631	Y	D	YD	probably damaging
rs11880955	XP_372712	I	L	IL	benign
rs11881032	XP_375633	N	T	NT	probably damaging
rs11881120	NP_277048	E	Q	EQ	benign
rs11881179	NP_055774	I	V	IV	benign
rs11881304	NP_001401	R	K	RK	benign
rs11881580	NP_775750	R	C	RC	probably damaging
rs11881770	NP_008836	P	R	PR	probably damaging
rs11882152	NP_036467	S	T	ST	possibly damaging
rs11882250	NP_001763	F	L	FL	benign
rs11882548	XP_292832	K	M	KM	probably damaging
rs11882842	NP_004098	R	K	RK	benign
rs11882865	NP_057580	T	A	TA	benign
rs11883041	NP_060191	T	P	TP	possibly damaging
rs11883132	NP_006854	P	H	PH	probably damaging
rs11883178	NP_036509	R	H	RH	benign
rs11883242	NP_775908	T	S	TS	benign
rs11883260	NP_653291	R	T	RT	possibly damaging

rs11883277	NP_002771	R	L	RL	benign
rs11883277	NP_998798	R	L	RL	benign
rs11883278	NP_002771	Q	H	QH	benign
rs11883278	NP_998798	Q	H	QH	benign
rs11883343	NP_065931	T	M	TM	possibly damaging
rs11883397	XP_290865	Q	H	QH	benign
rs11883500	NP_077006	T	I	TI	possibly damaging
rs11884856	XP_372911	M	L	ML	benign
rs11885953	NP_660343	N	S	NS	benign
rs11887168	XP_496551	F	I	FI	possibly damaging
rs11887523	XP_371481	A	T	AT	benign
rs11887534	NP_071882	D	H	DH	possibly damaging
rs11888208	NP_002967	I	V	IV	benign
rs11889349	NP_659429	M	V	MV	possibly damaging
rs11889701	XP_496593	R	H	RH	probably damaging
rs11889741	XP_496593	C	Y	CY	benign
rs11889831	NP_006560	K	N	KN	benign
rs11889832	NP_006560	K	E	KE	benign
rs11890468	NP_775099	Q	R	QR	benign
rs11890512	NP_775099	N	H	NH	benign
rs11891241	XP_372911	E	D	ED	benign
rs11891776	NP_976221	A	S	AS	benign
rs11891778	NP_775099	R	G	RG	possibly damaging
rs11892325	NP_055184	V	M	VM	benign
rs11892365	NP_002821	E	K	EK	benign
rs11892763	NP_620482	E	K	EK	benign
rs11893062	NP_659432	S	F	SF	benign
rs11893062	NP_945314	S	F	SF	benign
rs11893062	NP_663621	S	F	SF	possibly damaging
rs11893228	NP_919224	R	H	RH	benign
rs11893228	NP_919303	R	H	RH	benign
rs11893228	NP_919304	R	H	RH	benign
rs11893228	NP_004793	R	H	RH	benign
rs11893478	NP_006560	A	V	AV	benign
rs11894115	NP_149055	V	I	VI	benign
rs11894733	NP_849143	T	I	TI	possibly damaging
rs11895564	NP_000201	A	T	AT	benign
rs11896614	NP_005804	N	D	ND	benign
rs11898176	NP_060421	P	L	PL	probably damaging
rs11898176	NP_060221	P	L	PL	probably damaging
rs11898181	XP_371592	R	H	RH	benign
rs11898942	XP_208281	P	L	PL	probably damaging
rs11899555	NP_079137	I	V	IV	benign
rs11900987	NP_596870	N	I	NI	probably damaging
rs11901202	NP_444506	H	Y	HY	benign
rs11902811	NP_775816	I	V	IV	benign

rs11903115	XP_034594	D	V	DV	possibly damaging
rs11903403	NP_775100	S	R	SR	benign
rs11903659	XP_497863	A	T	AT	benign
rs11904930	NP_056415	V	M	VM	benign
rs11904972	XP_293160	F	L	FL	benign
rs11904974	XP_378983	A	E	AE	benign
rs11905003	XP_378983	R	P	RP	possibly damaging
rs11905247	NP_955400	Q	P	QP	possibly damaging
rs11905247	NP_056453	Q	P	QP	possibly damaging
rs11905328	NP_057733	T	P	TP	benign
rs11905938	NP_000169	P	S	PS	possibly damaging
rs11906845	NP_208384	A	V	AV	benign
rs11907253	NP_115998	R	H	RH	benign
rs11907355	NP_777557	P	T	PT	possibly damaging
rs11908093	NP_542789	Q	R	QR	benign
rs11908296	NP_060365	G	V	GV	possibly damaging
rs11908302	NP_071444	P	S	PS	possibly damaging
rs11908302	NP_647478	P	S	PS	possibly damaging
rs11908823	NP_115571	T	A	TA	benign
rs11908823	NP_478063	T	A	TA	benign
rs11908823	NP_620304	T	A	TA	benign
rs11908823	NP_620305	T	A	TA	benign
rs11908823	NP_003094	T	A	TA	benign
rs11908882	XP_086761	N	K	NK	possibly damaging
rs11910214	NP_000374	P	L	PL	probably damaging
rs11910483	NP_001840	I	L	IL	benign
rs11911404	XP_497781	N	K	NK	benign
rs11912359	XP_496486	K	T	KT	benign
rs11912559	NP_066919	S	N	SN	benign
rs11913323	NP_008863	L	P	LP	possibly damaging
rs11913323	NP_599031	L	P	LP	possibly damaging
rs11913323	NP_599032	L	P	LP	possibly damaging
rs11913706	XP_032997	P	A	PA	benign
rs11913728	NP_008863	A	V	AV	benign
rs11913728	NP_599031	A	V	AV	benign
rs11913728	NP_599032	A	V	AV	benign
rs11914085	NP_005288	G	R	GR	benign
rs11914332	XP_293599	R	P	RP	possibly damaging
rs11915149	XP_031246	S	C	SC	benign
rs11915374	XP_039796	I	T	IT	benign
rs11917204	NP_653316	R	W	RW	benign
rs11917222	NP_056039	L	V	LV	benign
rs11917468	NP_775814	A	V	AV	benign
rs11917716	NP_005450	A	V	AV	benign
rs11918974	NP_078897	S	P	SP	benign
rs11918990	XP_376254	R	H	RH	benign

rs11919896	NP_689607	G	R	GR	possibly damaging
rs11919919	NP_002879	D	V	DV	probably damaging
rs11919919	NP_996846	D	V	DV	probably damaging
rs11919970	NP_001957	Q	K	QK	possibly damaging
rs11920433	NP_444257	R	G	RG	benign
rs11920433	NP_444254	R	G	RG	possibly damaging
rs11920433	NP_444255	R	G	RG	possibly damaging
rs11920433	NP_444256	R	G	RG	possibly damaging
rs11920433	NP_444253	R	G	RG	possibly damaging
rs11921054	NP_000088	R	C	RC	possibly damaging
rs11921691	NP_775841	K	R	KR	benign
rs11921769	XP_067585	E	A	EA	benign
rs11922014	XP_170597	R	C	RC	benign
rs11923380	NP_078897	M	V	MV	possibly damaging
rs11923495	NP_689886	R	W	RW	possibly damaging
rs11924014	NP_002069	R	S	RS	possibly damaging
rs11924644	NP_077310	A	V	AV	benign
rs11925638	NP_115542	K	Q	KQ	benign
rs11925638	NP_569055	K	Q	KQ	benign
rs11926958	NP_055457	F	L	FL	benign
rs11927120	XP_293633	G	S	GS	possibly damaging
rs11927618	NP_001957	L	S	LS	benign
rs11927897	NP_689610	R	Q	RQ	benign
rs11928913	NP_003326	P	S	PS	possibly damaging
rs11929241	NP_056984	S	I	SI	possibly damaging
rs11930003	XP_374902	S	L	SL	benign
rs11932767	NP_002904	E	D	ED	benign
rs11934749	NP_006578	H	R	HR	possibly damaging
rs11934801	NP_000194	G	R	GR	benign
rs11935573	NP_060109	S	L	SL	benign
rs11937432	NP_078787	I	T	IT	benign
rs11937881	XP_496682	Q	R	QR	benign
rs11938093	NP_001720	L	M	LM	benign
rs11938345	NP_653246	S	N	SN	benign
rs11939657	XP_497987	C	S	CS	probably damaging
rs11940735	XP_373035	D	Y	DY	benign
rs11940827	NP_002328	E	Q	EQ	benign
rs11940942	XP_496682	V	I	VI	benign
rs11941467	NP_079225	A	S	AS	benign
rs11942361	NP_078858	E	K	EK	benign
rs11943863	NP_000133	F	C	FC	benign
rs11944159	NP_612398	P	L	PL	benign
rs11944325	NP_055291	V	M	VM	benign
rs11945830	NP_612394	V	M	VM	benign
rs11947418	NP_937822	H	Q	HQ	probably damaging
rs11947742	NP_689983	T	M	TM	benign

rs11948907	NP_055588	R	G	RG	possibly damaging
rs11949133	NP_110420	A	T	AT	benign
rs11949133	NP_995308	A	T	AT	benign
rs11949651	XP_498018	S	F	SF	possibly damaging
rs11951603	XP_209704	T	M	TM	probably damaging
rs11952056	NP_937986	S	T	ST	benign
rs11952056	NP_003210	S	T	ST	benign
rs11952056	NP_937983	S	T	ST	benign
rs11952056	NP_937984	S	T	ST	benign
rs11952995	XP_499223	V	L	VL	benign
rs11953029	XP_209704	T	A	TA	benign
rs11953478	NP_114417	G	E	GE	benign
rs11953798	XP_209704	C	R	CR	benign
rs11953822	NP_612357	M	L	ML	benign
rs11954456	NP_075252	S	R	SR	probably damaging
rs11954456	NP_998812	S	R	SR	probably damaging
rs11954652	NP_057305	F	L	FL	benign
rs11954740	NP_006698	S	N	SN	benign
rs11955074	NP_478137	V	I	VI	benign
rs11955580	XP_068430	E	Q	EQ	benign
rs11955611	XP_116396	P	L	PL	benign
rs11956147	NP_085116	R	G	RG	benign
rs11956781	NP_057065	H	L	HL	probably damaging
rs11956781	NP_741960	H	L	HL	probably damaging
rs11956826	NP_061759	F	L	FL	possibly damaging
rs11956837	NP_644810	M	V	MV	benign
rs11957063	XP_047995	V	F	VF	possibly damaging
rs11959820	NP_573570	R	S	RS	possibly damaging
rs11961225	NP_071756	R	Q	RQ	benign
rs11961407	NP_061925	R	W	RW	benign
rs11962520	NP_055904	T	I	TI	benign
rs11963184	NP_004743	K	N	KN	benign
rs11963186	NP_004743	D	N	DN	benign
rs11963294	NP_002215	R	Q	RQ	benign
rs11964847	NP_116130	P	S	PS	benign
rs11965377	XP_496799	R	G	RG	possibly damaging
rs11965942	NP_056370	Q	R	QR	benign
rs11966331	NP_079534	R	Q	RQ	benign
rs11966370	NP_006623	P	L	PL	probably damaging
rs11966382	NP_009091	V	M	VM	benign
rs11966400	NP_663630	P	A	PA	benign
rs11966617	NP_898901	D	A	DA	possibly damaging
rs11966617	NP_003949	D	A	DA	possibly damaging
rs11966704	NP_057440	G	A	GA	benign
rs11967003	NP_056948	A	G	AG	benign
rs11967753	NP_115859	R	G	RG	possibly damaging



rs11968051	XP_376535	V	G	VG	possibly damaging
rs11968123	XP_498078	M	R	MR	benign
rs11968285	XP_294019	A	T	AT	benign
rs11968301	NP_002368	I	V	IV	benign
rs11968933	XP_166300	G	D	GD	possibly damaging
rs11969080	NP_079083	L	M	LM	benign
rs11969206	NP_620306	R	L	RL	possibly damaging
rs11969206	NP_005933	R	L	RL	possibly damaging
rs11969769	NP_620306	P	H	PH	possibly damaging
rs11969769	NP_005933	P	H	PH	possibly damaging
rs11970403	NP_068811	L	F	LF	benign
rs11970968	NP_078774	H	R	HR	probably damaging
rs11971167	NP_000483	D	N	DN	possibly damaging
rs11971829	NP_853628	T	M	TM	possibly damaging
rs11972717	NP_003921	A	S	AS	benign
rs11973761	NP_775835	A	D	AD	benign
rs11974041	NP_057152	R	Q	RQ	benign
rs11974345	NP_078987	G	D	GD	benign
rs11974959	XP_373223	W	R	WR	probably damaging
rs11975799	XP_373219	A	T	AT	benign
rs11976235	NP_000790	P	L	PL	benign
rs11976480	NP_001628	D	N	DN	benign
rs11976825	XP_496905	T	K	TK	benign
rs11976837	XP_498214	A	E	AE	benign
rs11976848	XP_377933	N	D	ND	benign
rs11976972	NP_689771	H	N	HN	probably damaging
rs11977152	XP_291247	P	A	PA	possibly damaging
rs11977216	NP_078987	Q	R	QR	benign
rs11977547	NP_857597	P	L	PL	probably damaging
rs11978101	NP_689957	D	N	DN	benign
rs11978404	NP_003452	H	L	HL	benign
rs11978680	NP_689952	H	P	HP	benign
rs11978899	NP_060804	R	K	RK	benign
rs11978942	XP_371897	G	S	GS	possibly damaging
rs11978967	XP_498229	A	E	AE	benign
rs11980085	XP_379906	Y	C	YC	probably damaging
rs11980163	XP_379488	S	P	SP	benign
rs11980216	NP_620166	E	K	EK	benign
rs11980596	NP_115852	E	D	ED	benign
rs11980797	NP_078999	L	V	LV	benign
rs11980797	NP_891554	L	V	LV	benign
rs11982797	XP_373223	L	P	LP	possibly damaging
rs11984226	XP_498233	I	T	IT	possibly damaging
rs11984293	NP_620166	P	Q	PQ	probably damaging
rs11984465	XP_372063	D	G	DG	possibly damaging
rs11984791	XP_378197	R	W	RW	possibly damaging

rs11985241	NP_653252	N	S	NS	benign
rs11986329	NP_079107	P	S	PS	possibly damaging
rs11987299	XP_374252	T	A	TA	benign
rs11988457	XP_291277	C	W	CW	probably damaging
rs11989168	NP_932159	R	Q	RQ	benign
rs11989168	NP_789847	R	Q	RQ	benign
rs11989168	NP_067643	R	Q	RQ	benign
rs11989955	NP_113649	H	L	HL	probably damaging
rs11990333	NP_079043	R	H	RH	benign
rs11990421	NP_005135	P	L	PL	probably damaging
rs11990421	NP_060881	P	L	PL	probably damaging
rs11990451	NP_005135	S	R	SR	benign
rs11990451	NP_060881	S	R	SR	benign
rs11990768	NP_660202	R	Q	RQ	benign
rs11990815	XP_372039	Q	R	QR	benign
rs11991800	NP_150601	C	R	CR	probably damaging
rs11991960	XP_373243	A	G	AG	benign
rs11993776	NP_036214	A	G	AG	benign
rs11994207	XP_496999	R	Q	RQ	benign
rs11996036	NP_006120	V	I	VI	benign
rs11996470	XP_374252	R	S	RS	benign
rs11997191	XP_088315	Q	R	QR	benign
rs11998459	NP_006202	T	N	TN	benign
rs11998518	NP_848927	R	K	RK	benign
rs11999094	XP_376895	H	D	HD	probably damaging
rs11999308	NP_671728	T	I	TI	benign
rs11999454	NP_036276	V	G	VG	benign
rs11999686	XP_497056	V	G	VG	possibly damaging
rs12000150	NP_694856	G	A	GA	possibly damaging
rs12000402	XP_294567	Q	R	QR	benign
rs12001066	NP_778243	P	L	PL	possibly damaging
rs12001918	NP_060046	I	V	IV	benign
rs12002324	NP_036335	R	Q	RQ	benign
rs12002428	NP_005076	A	T	AT	benign
rs12003404	NP_000188	T	P	TP	benign
rs12004651	NP_067632	P	A	PA	probably damaging
rs12006160	NP_064530	A	D	AD	benign
rs12006769	NP_001640	A	V	AV	benign
rs12008095	NP_001513	L	P	LP	probably damaging
rs12008888	XP_088636	D	H	DH	possibly damaging
rs12009522	XP_088684	R	H	RH	benign
rs12009763	XP_498383	S	L	SL	benign
rs12009847	NP_116315	Q	E	QE	benign
rs12010332	NP_005355	S	F	SF	possibly damaging
rs12012202	NP_001640	I	V	IV	benign
rs12012442	XP_050478	E	K	EK	benign

rs12012506	NP_009081	R	H	RH	possibly damaging
rs12012704	NP_003877	A	G	AG	benign
rs12012704	NP_647450	A	G	AG	benign
rs12012747	NP_006004	S	N	SN	benign
rs12013441	NP_073749	R	C	RC	possibly damaging
rs12013711	NP_055104	V	L	VL	benign
rs12014977	NP_957516	E	D	ED	benign
rs12021720	NP_001909	G	S	GS	benign
rs12021744	NP_006662	E	K	EK	benign
rs12021962	XP_497652	H	R	HR	benign
rs12022378	NP_073747	H	Y	HY	benign
rs12023067	NP_073583	V	L	VL	benign
rs12024079	XP_371230	H	Y	HY	possibly damaging
rs12024104	XP_371230	D	E	DE	benign
rs12025066	NP_060606	I	V	IV	benign
rs12025869	NP_037417	R	T	RT	probably damaging
rs12025870	NP_037417	Q	H	QH	probably damaging
rs12026290	NP_932157	V	M	VM	benign
rs12027481	XP_371236	R	T	RT	possibly damaging
rs12028402	XP_291577	Q	R	QR	benign
rs12028487	NP_940819	L	V	LV	benign
rs12028487	NP_068767	L	V	LV	benign
rs12029683	NP_079455	P	H	PH	possibly damaging
rs12029771	NP_660155	G	D	GD	possibly damaging
rs12030004	NP_003675	P	L	PL	probably damaging
rs12030747	NP_000300	E	K	EK	benign
rs12030791	XP_371210	L	V	LV	benign
rs12030797	XP_371210	L	F	LF	benign
rs12030843	NP_996769	L	V	LV	benign
rs12030882	NP_002688	E	K	EK	benign
rs12031148	NP_005048	L	F	LF	benign
rs12032160	NP_057317	E	D	ED	benign
rs12032292	NP_775179	Q	H	QH	possibly damaging
rs12032292	NP_963863	Q	H	QH	possibly damaging
rs12032292	NP_963862	Q	H	QH	possibly damaging
rs12032292	NP_055652	Q	H	QH	possibly damaging
rs12032332	NP_060604	C	Y	CY	probably damaging
rs12032393	NP_115646	N	S	NS	benign
rs12032435	XP_030665	R	H	RH	possibly damaging
rs12032464	XP_497652	R	Q	RQ	benign
rs12032692	NP_079464	T	I	TI	benign
rs12033678	NP_689424	S	N	SN	benign
rs12033678	NP_057060	S	N	SN	benign
rs12033719	NP_058515	T	I	TI	benign
rs12034056	NP_005586	F	S	FS	probably damaging
rs12034646	NP_067646	E	K	EK	benign

rs12035024	NP_057093	T	I	TI	benign
rs12035264	NP_127491	T	I	TI	benign
rs12035909	NP_620151	Y	C	YC	probably damaging
rs12036186	NP_057260	Q	E	QE	benign
rs12036228	NP_112571	V	I	VI	benign
rs12036569	NP_115646	M	I	MI	possibly damaging
rs12036617	NP_068779	E	K	EK	benign
rs12036622	NP_068779	E	K	EK	benign
rs12036682	XP_048104	H	N	HN	possibly damaging
rs12036962	NP_997239	P	A	PA	benign
rs12037099	NP_061486	D	V	DV	probably damaging
rs12037099	NP_005553	D	V	DV	probably damaging
rs12037217	NP_003912	A	S	AS	benign
rs12037377	NP_071761	H	Y	HY	possibly damaging
rs12038033	NP_002591	A	V	AV	benign
rs12038082	NP_733793	P	S	PS	probably damaging
rs12038082	NP_004832	P	S	PS	probably damaging
rs12038198	NP_065821	R	Q	RQ	benign
rs12038884	NP_671517	S	R	SR	possibly damaging
rs12038884	NP_056362	S	R	SR	possibly damaging
rs12039262	NP_443172	M	T	MT	probably damaging
rs12039846	NP_006247	E	D	ED	benign
rs12039961	NP_006754	V	M	VM	benign
rs12040115	XP_117174	A	E	AE	benign
rs12040910	NP_149118	H	R	HR	possibly damaging
rs12041280	NP_068777	A	T	AT	benign
rs12041673	NP_443171	L	F	LF	benign
rs12041704	NP_060143	D	N	DN	benign
rs12041951	NP_982279	T	I	TI	possibly damaging
rs12042270	NP_002642	A	S	AS	benign
rs12043139	NP_000636	R	H	RH	possibly damaging
rs12043139	NP_000637	R	H	RH	possibly damaging
rs12043139	NP_000635	R	H	RH	possibly damaging
rs12043246	XP_375809	D	N	DN	benign
rs12043423	NP_055281	R	C	RC	possibly damaging
rs12043777	NP_115640	D	E	DE	benign
rs12044248	NP_005586	F	L	FL	probably damaging
rs12044926	NP_065821	Q	E	QE	benign
rs12045198	NP_056146	V	I	VI	benign
rs12045447	NP_036546	T	A	TA	benign
rs12045510	NP_004687	V	A	VA	benign
rs12045766	NP_065883	R	T	RT	benign
rs12046646	NP_004506	S	F	SF	benign
rs12047252	XP_117174	M	T	MT	benign
rs12048482	NP_036483	M	I	MI	benign
rs12048768	NP_963922	R	C	RC	possibly damaging

rs12049299	NP_055030	R	P	RP	possibly damaging
rs12049823	NP_775853	L	P	LP	possibly damaging
rs12051468	NP_113664	S	G	SG	benign
rs12051598	NP_003762	P	S	PS	benign
rs12052997	NP_003378	R	K	RK	benign
rs12053788	NP_001877	R	Q	RQ	possibly damaging
rs12054046	NP_778226	T	A	TA	benign
rs12054059	NP_703190	R	Q	RQ	benign
rs12054059	NP_703191	R	Q	RQ	benign
rs12054059	NP_116121	R	Q	RQ	benign
rs12054095	NP_066278	T	R	TR	benign
rs12054882	NP_005876	E	K	EK	benign
rs12055850	NP_116173	Q	H	QH	benign
rs12057307	NP_056193	A	T	AT	benign
rs12057383	NP_904319	A	T	AT	benign
rs12057383	NP_904320	A	T	AT	benign
rs12057721	XP_497652	I	T	IT	benign
rs12057938	NP_067649	A	V	AV	benign
rs12058405	NP_001830	T	I	TI	probably damaging
rs12059066	NP_940895	L	I	LI	benign
rs12059349	NP_036234	L	M	LM	benign
rs12059562	XP_375834	A	V	AV	benign
rs12060052	NP_004362	S	F	SF	possibly damaging
rs12060764	XP_497652	V	A	VA	possibly damaging
rs12061020	NP_055143	S	F	SF	benign
rs12061027	NP_078820	C	Y	CY	benign
rs12061745	NP_996927	T	M	TM	benign
rs12061745	NP_996930	T	M	TM	benign
rs12061745	NP_996928	T	M	TM	benign
rs12061745	NP_996926	T	M	TM	benign
rs12061745	NP_997051	T	M	TM	benign
rs12061858	NP_071397	R	K	RK	benign
rs12061858	NP_955533	R	K	RK	benign
rs12061958	NP_853550	A	P	AP	benign
rs12062047	NP_002052	E	K	EK	benign
rs12062114	NP_076427	R	G	RG	possibly damaging
rs12062220	NP_148980	S	F	SF	benign
rs12062220	NP_056990	S	F	SF	benign
rs12062278	NP_003558	E	G	EG	benign
rs12062289	NP_004362	E	K	EK	possibly damaging
rs12062580	XP_060945	F	L	FL	benign
rs12063186	XP_372755	P	L	PL	probably damaging
rs12064925	NP_057466	S	F	SF	benign
rs12065373	NP_689517	S	N	SN	benign
rs12065473	NP_061486	A	P	AP	benign
rs12065473	NP_005553	A	P	AP	benign

rs12065526	XP_060580	T	I	TI	probably damaging
rs12065791	NP_940819	S	L	SL	possibly damaging
rs12065791	NP_068767	S	L	SL	possibly damaging
rs12065961	NP_683763	L	F	LF	possibly damaging
rs12066948	NP_775804	M	T	MT	benign
rs12067543	NP_004249	R	C	RC	benign
rs12068080	XP_291437	T	M	TM	possibly damaging
rs12068365	NP_612122	S	N	SN	benign
rs12068365	NP_612123	S	N	SN	benign
rs12068423	NP_149033	I	V	IV	benign
rs12068423	NP_036222	I	V	IV	benign
rs12068828	XP_496406	V	I	VI	benign
rs12068900	XP_048104	S	T	ST	benign
rs12069022	NP_620056	G	D	GD	possibly damaging
rs12069022	NP_620055	G	D	GD	possibly damaging
rs12069022	NP_060214	G	D	GD	possibly damaging
rs12069239	XP_048774	P	A	PA	benign
rs12069578	NP_055689	M	I	MI	possibly damaging
rs12069888	NP_065845	H	Y	HY	possibly damaging
rs12069976	NP_775804	F	V	FV	possibly damaging
rs12070367	XP_496379	R	Q	RQ	benign
rs12070953	XP_060580	D	G	DG	benign
rs12071507	XP_496418	G	R	GR	possibly damaging
rs12072216	NP_000706	P	A	PA	possibly damaging
rs12072499	NP_001094	A	V	AV	benign
rs12072582	NP_008825	D	H	DH	benign
rs12072660	NP_057083	A	V	AV	benign
rs12072861	NP_003966	R	C	RC	probably damaging
rs12072880	XP_378901	T	R	TR	benign
rs12073565	XP_089281	A	G	AG	benign
rs12073613	XP_048104	H	Q	HQ	probably damaging
rs12074076	NP_149118	S	L	SL	benign
rs12074499	NP_940949	T	M	TM	possibly damaging
rs12074652	NP_536356	A	V	AV	benign
rs12075111	NP_689822	R	C	RC	benign
rs12075462	NP_066188	R	K	RK	benign
rs12075570	XP_031401	R	H	RH	benign
rs12075583	NP_003030	L	V	LV	benign
rs12075833	NP_055785	S	A	SA	benign
rs12075844	NP_000219	N	S	NS	benign
rs12076297	NP_005067	A	T	AT	benign
rs12076815	NP_116269	T	M	TM	possibly damaging
rs12077069	NP_055187	D	E	DE	benign
rs12077338	XP_497697	S	G	SG	benign
rs12077465	NP_004714	P	H	PH	possibly damaging
rs12078107	XP_375720	Q	H	QH	benign

rs12078586	NP_443170	V	M	VM	benign
rs12078755	NP_002499	P	H	PH	probably damaging
rs12079481	NP_115502	A	G	AG	benign
rs12079514	NP_000630	Y	S	YS	probably damaging
rs12080688	NP_055785	L	V	LV	benign
rs12081093	XP_048104	S	I	SI	benign
rs12081249	NP_060710	A	T	AT	benign
rs12082295	NP_689585	R	Q	RQ	benign
rs12082855	NP_997197	I	V	IV	benign
rs12082990	NP_005637	L	P	LP	possibly damaging
rs12083024	XP_291438	C	S	CS	probably damaging
rs12083389	XP_378901	E	D	ED	benign
rs12083590	NP_001399	R	Q	RQ	benign
rs12083722	NP_056995	E	K	EK	benign
rs12083859	NP_115643	E	D	ED	benign
rs12084067	NP_055917	R	Q	RQ	benign
rs12084085	XP_034086	S	I	SI	possibly damaging
rs12084470	NP_060238	L	F	LF	benign
rs12084626	XP_496390	P	T	PT	possibly damaging
rs12084919	NP_996671	V	I	VI	benign
rs12085009	NP_542172	E	D	ED	benign
rs12085186	NP_003748	A	S	AS	benign
rs12085658	NP_006247	Q	R	QR	benign
rs12085877	NP_006601	R	H	RH	possibly damaging
rs12086307	NP_114406	R	W	RW	probably damaging
rs12086855	XP_371328	I	F	IF	benign
rs12087217	NP_982279	A	G	AG	benign
rs12087623	XP_496370	T	A	TA	benign
rs12087671	NP_940948	I	L	IL	benign
rs12087917	NP_002516	L	V	LV	benign
rs12088790	NP_005549	L	P	LP	benign
rs12090411	NP_543154	Q	R	QR	benign
rs12090608	XP_086186	I	M	IM	benign
rs12090611	XP_031401	R	Q	RQ	benign
rs12090800	NP_071394	D	H	DH	benign
rs12090888	NP_835223	M	T	MT	benign
rs12091021	NP_003106	S	G	SG	benign
rs12091148	NP_689822	Q	R	QR	benign
rs12091190	NP_064589	A	T	AT	benign
rs12091253	NP_000219	R	L	RL	possibly damaging
rs12091554	NP_361013	S	A	SA	benign
rs12091678	NP_060095	D	E	DE	possibly damaging
rs12091750	XP_290944	I	T	IT	benign
rs12092598	NP_078902	E	K	EK	benign
rs12092878	NP_071394	F	I	FI	benign
rs12093126	NP_067652	R	H	RH	benign

rs12093500	NP_055917	A	G	AG	benign
rs12093834	NP_004249	R	Q	RQ	benign
rs12094024	NP_000770	Y	S	YS	probably damaging
rs12094135	NP_116222	P	S	PS	benign
rs12094447	NP_699170	R	Q	RQ	benign
rs12094805	NP_001432	H	R	HR	probably damaging
rs12094920	NP_940949	V	M	VM	benign
rs12095382	NP_061946	G	S	GS	benign
rs12095818	NP_055816	D	E	DE	benign
rs12096312	XP_052561	R	H	RH	benign
rs12096547	NP_387506	D	N	DN	benign
rs12096648	NP_038469	D	N	DN	possibly damaging
rs12096782	NP_002548	P	S	PS	benign
rs12097311	NP_002212	A	S	AS	benign
rs12097758	NP_004249	V	I	VI	benign
rs12097805	NP_115612	E	K	EK	benign
rs12098477	XP_370541	T	A	TA	benign
rs12098562	XP_370541	A	G	AG	benign
rs12099177	NP_071405	R	W	RW	possibly damaging
rs12099204	NP_060729	I	L	IL	benign
rs12099880	NP_078961	A	V	AV	benign
rs12101554	NP_899232	A	T	AT	benign
rs12101559	NP_071918	I	T	IT	benign
rs12102203	NP_056078	S	P	SP	benign
rs12102534	NP_002377	T	M	TM	possibly damaging
rs12102580	NP_079358	P	L	PL	probably damaging
rs12103928	NP_003070	K	N	KN	possibly damaging
rs12103986	NP_443179	H	Q	HQ	benign
rs12104280	XP_371164	H	Y	HY	benign
rs12105962	NP_620712	C	S	CS	probably damaging
rs12106280	NP_945345	D	V	DV	possibly damaging
rs12107045	NP_542383	A	V	AV	benign
rs12107252	NP_001398	Q	R	QR	benign
rs12107254	XP_291085	I	L	IL	benign
rs12107615	XP_496634	R	G	RG	benign
rs12107687	XP_371670	R	S	RS	probably damaging
rs12107841	XP_171032	S	G	SG	benign
rs12108463	NP_006672	F	L	FL	benign
rs12108814	NP_004052	I	T	IT	benign
rs12109475	NP_689618	A	V	AV	benign
rs12110451	NP_055426	I	V	IV	benign
rs12110554	NP_002281	N	S	NS	benign
rs12110938	NP_722580	R	C	RC	probably damaging
rs12112868	NP_848658	R	W	RW	possibly damaging
rs12115566	NP_009102	A	V	AV	benign
rs12115750	XP_378080	S	Y	SY	probably damaging



rs12116318	XP_498374	A	S	AS	benign
rs12116440	NP_001616	A	T	AT	benign
rs12116440	NP_037543	A	T	AT	benign
rs12117237	NP_958357	K	E	KE	benign
rs12117456	NP_005509	S	F	SF	possibly damaging
rs12118058	NP_000636	R	G	RG	probably damaging
rs12118058	NP_000637	R	G	RG	probably damaging
rs12118058	NP_000635	R	G	RG	probably damaging
rs12118276	NP_060754	E	K	EK	benign
rs12118505	NP_848644	T	I	TI	benign
rs12118628	NP_036483	M	I	MI	benign
rs12118790	NP_015563	R	T	RT	possibly damaging
rs12118790	NP_004790	R	T	RT	possibly damaging
rs12118933	NP_004310	R	G	RG	possibly damaging
rs12118991	NP_004276	A	V	AV	benign
rs12119062	NP_002146	G	E	GE	probably damaging
rs12119874	XP_372763	T	A	TA	benign
rs12119908	NP_653303	R	H	RH	benign
rs12120084	XP_375825	P	A	PA	possibly damaging
rs12120756	NP_982283	S	R	SR	possibly damaging
rs12121210	NP_002754	H	R	HR	probably damaging
rs12121540	XP_086186	Q	P	QP	benign
rs12122278	NP_001739	G	S	GS	benign
rs12122770	NP_003677	S	G	SG	benign
rs12122770	NP_569082	S	G	SG	benign
rs12123403	XP_372763	S	L	SL	benign
rs12123482	NP_115700	G	E	GE	benign
rs12123573	NP_942005	S	C	SC	benign
rs12123573	NP_942006	S	C	SC	benign
rs12123778	NP_061120	G	R	GR	benign
rs12123896	NP_054903	A	G	AG	benign
rs12124336	NP_055625	S	A	SA	benign
rs12124464	XP_496394	A	T	AT	benign
rs12124464	XP_375869	A	T	AT	benign
rs12125245	NP_055625	G	V	GV	benign
rs12125701	NP_039234	A	S	AS	benign
rs12126269	NP_004061	F	Y	FY	benign
rs12126910	NP_006138	V	L	VL	benign
rs12127732	XP_038288	D	Y	DY	probably damaging
rs12127777	NP_060604	D	H	DH	possibly damaging
rs12127918	XP_497652	A	T	AT	benign
rs12127921	XP_497652	C	Y	CY	benign
rs12128133	NP_060912	S	R	SR	benign
rs12128680	XP_496394	E	A	EA	possibly damaging
rs12129596	NP_071372	S	N	SN	benign
rs12129883	NP_563578	I	L	IL	benign

rs12129883	NP_563579	I	L	IL	benign
rs12129883	NP_002829	I	L	IL	benign
rs12130128	NP_079124	L	V	LV	benign
rs12130501	XP_046751	G	S	GS	benign
rs12130792	NP_056256	Y	C	YC	probably damaging
rs12131549	NP_077305	F	L	FL	probably damaging
rs12131695	XP_372763	G	A	GA	benign
rs12131800	NP_000712	A	T	AT	benign
rs12132195	XP_496362	R	G	RG	possibly damaging
rs12132960	XP_114152	L	M	LM	benign
rs12133454	NP_002499	F	L	FL	benign
rs12133574	NP_940948	N	K	NK	possibly damaging
rs12134293	NP_689873	S	F	SF	possibly damaging
rs12134752	NP_075565	R	Q	RQ	benign
rs12134870	NP_001117	L	F	LF	benign
rs12134934	NP_005798	M	T	MT	benign
rs12134979	XP_372823	F	L	FL	benign
rs12135040	XP_048104	G	R	GR	probably damaging
rs12135069	NP_060555	R	G	RG	probably damaging
rs12135078	XP_291438	V	I	VI	benign
rs12135160	NP_000565	S	F	SF	benign
rs12135427	NP_005637	F	L	FL	benign
rs12135684	XP_060305	A	S	AS	benign
rs12136548	NP_940861	D	G	DG	benign
rs12136585	NP_002635	S	P	SP	benign
rs12136658	NP_563578	H	Q	HQ	benign
rs12136658	NP_563579	H	Q	HQ	benign
rs12136658	NP_002829	H	Q	HQ	benign
rs12137505	XP_371320	N	D	ND	benign
rs12137578	NP_061174	S	G	SG	benign
rs12137678	XP_371206	R	Q	RQ	benign
rs12137794	NP_060668	M	V	MV	benign
rs12137982	XP_060305	T	S	TS	benign
rs12138336	NP_060606	Q	H	QH	possibly damaging
rs12138368	XP_371237	L	F	LF	benign
rs12139390	XP_291438	E	D	ED	benign
rs12139527	NP_000060	L	S	LS	benign
rs12139546	NP_075390	T	A	TA	benign
rs12139550	NP_075390	E	G	EG	possibly damaging
rs12140153	NP_005790	G	V	GV	probably damaging
rs12140153	NP_795352	G	V	GV	probably damaging
rs12140153	NP_795353	G	V	GV	probably damaging
rs12140223	NP_004061	R	W	RW	benign
rs12140311	NP_000076	T	S	TS	benign
rs12140352	NP_055964	S	C	SC	possibly damaging
rs12141189	NP_068777	S	P	SP	benign

rs12141573	NP_005790	D	N	DN	benign
rs12141573	NP_795352	D	N	DN	benign
rs12141573	NP_795353	D	N	DN	benign
rs12141598	NP_005790	E	K	EK	benign
rs12141598	NP_795352	E	K	EK	benign
rs12141598	NP_795353	E	K	EK	benign
rs12141599	NP_005790	E	K	EK	benign
rs12141599	NP_795352	E	K	EK	benign
rs12141599	NP_795353	E	K	EK	benign
rs12142270	NP_055917	T	M	TM	benign
rs12142450	XP_375851	V	M	VM	benign
rs12142488	XP_291439	L	M	LM	benign
rs12142653	NP_005332	P	R	PR	probably damaging
rs12143301	NP_065156	A	G	AG	benign
rs12143301	NP_851607	G	A	GA	benign
rs12144752	NP_004437	S	F	SF	possibly damaging
rs12144935	NP_940798	S	N	SN	possibly damaging
rs12145360	NP_689585	I	T	IT	benign
rs12145577	NP_060156	Q	P	QP	possibly damaging
rs12145706	XP_372784	A	T	AT	benign
rs12145941	XP_373868	S	R	SR	benign
rs12146448	NP_055880	V	F	VF	possibly damaging
rs12146487	NP_000923	R	H	RH	benign
rs12146512	NP_055880	H	R	HR	probably damaging
rs12146610	XP_370652	Q	L	QL	probably damaging
rs12146709	NP_115532	K	R	KR	benign
rs12146709	NP_076414	K	R	KR	benign
rs12146727	NP_958850	R	H	RH	possibly damaging
rs12146813	NP_149115	Q	H	QH	benign
rs12146878	NP_996555	R	W	RW	possibly damaging
rs12146878	NP_996556	R	W	RW	possibly damaging
rs12146878	NP_002456	R	W	RW	probably damaging
rs12146878	NP_996557	R	W	RW	probably damaging
rs12147890	NP_002926	G	R	GR	benign
rs12148316	NP_006284	I	N	IN	benign
rs12149651	NP_074035	L	M	LM	benign
rs12149651	NP_002465	L	M	LM	benign
rs12150220	NP_127499	L	H	LH	benign
rs12150220	NP_127500	L	H	LH	possibly damaging
rs12150220	NP_055737	L	H	LH	possibly damaging
rs12150220	NP_127497	L	H	LH	possibly damaging
rs12150427	NP_036484	W	C	WC	benign
rs12150510	NP_009099	Y	F	YF	possibly damaging
rs12150626	XP_497555	G	S	GS	benign
rs12150682	NP_852095	A	V	AV	benign
rs12150682	NP_004505	A	V	AV	benign

rs12150889	NP_055085	V	A	VA	benign
rs12150963	NP_115823	N	K	NK	possibly damaging
rs12151009	NP_036287	M	V	MV	possibly damaging
rs12151060	NP_112495	D	Y	DY	benign
rs12151069	NP_002220	A	S	AS	benign
rs12153970	NP_006111	F	L	FL	probably damaging
rs12154540	NP_699194	E	G	EG	probably damaging
rs12154666	XP_498198	N	S	NS	benign
rs12154756	XP_498198	N	K	NK	benign
rs12154860	XP_379797	S	N	SN	benign
rs12155155	XP_379797	L	S	LS	benign
rs12155470	XP_379797	N	K	NK	benign
rs12157473	NP_003551	S	I	SI	possibly damaging
rs12157650	XP_496533	G	R	GR	probably damaging
rs12157714	NP_055392	A	S	AS	benign
rs12157816	NP_660341	Y	C	YC	benign
rs12157922	NP_683515	A	V	AV	benign
rs12158015	NP_008863	A	T	AT	benign
rs12158015	NP_599031	A	T	AT	benign
rs12158015	NP_599032	A	T	AT	benign
rs12158456	NP_061881	P	L	PL	possibly damaging
rs12158709	XP_376007	R	K	RK	benign
rs12158711	XP_376007	D	N	DN	benign
rs12158840	NP_003495	V	M	VM	benign
rs12159257	NP_002963	E	K	EK	benign
rs12159292	NP_036427	D	N	DN	benign
rs12159334	NP_006349	H	R	HR	possibly damaging
rs12159483	NP_066554	S	F	SF	benign
rs12159591	NP_073622	D	N	DN	benign
rs12159591	NP_942153	D	N	DN	benign
rs12159765	NP_038347	Q	H	QH	possibly damaging
rs12160114	XP_496527	R	W	RW	possibly damaging
rs12160890	XP_372891	N	K	NK	benign
rs12161775	NP_004196	T	S	TS	benign
rs12163538	NP_005769	Q	H	QH	possibly damaging
rs12164038	NP_056502	V	G	VG	possibly damaging
rs12164380	NP_060246	V	L	VL	benign
rs12164676	XP_496691	E	D	ED	benign
rs12165943	NP_055061	C	S	CS	benign
rs12166151	NP_036427	Q	E	QE	benign
rs12166433	NP_006595	D	H	DH	benign
rs12167166	NP_002874	Q	E	QE	benign
rs12167828	NP_057533	N	S	NS	benign
rs12168672	NP_477352	D	N	DN	benign
rs12169391	NP_055061	T	M	TM	benign
rs12169695	NP_114408	L	V	LV	benign

rs12170233	NP_477352	D	Y	DY	probably damaging
rs12170285	NP_689825	R	W	RW	possibly damaging
rs12170538	XP_375963	G	R	GR	possibly damaging
rs12170597	NP_055061	A	V	AV	benign
rs12170847	NP_055153	L	M	LM	benign
rs12170872	NP_006730	Q	H	QH	probably damaging
rs12170939	NP_061830	P	T	PT	possibly damaging
rs12171042	XP_038520	L	P	LP	probably damaging
rs12171319	NP_055823	R	P	RP	probably damaging
rs12171339	XP_496691	E	K	EK	benign
rs12172245	XP_372891	H	Q	HQ	benign
rs12172251	XP_372891	H	Q	HQ	benign
rs12172393	XP_372891	S	N	SN	benign
rs12172490	XP_372891	D	A	DA	benign
rs12172761	NP_803172	A	T	AT	benign
rs12172761	NP_003617	A	T	AT	benign
rs12173786	NP_065801	K	N	KN	possibly damaging
rs12174042	NP_523239	E	K	EK	possibly damaging
rs12175072	NP_003183	A	T	AT	benign
rs12175588	XP_376527	D	V	DV	possibly damaging
rs12176347	NP_002109	A	V	AV	benign
rs12178306	XP_496798	A	V	AV	benign
rs12178599	NP_542165	Y	N	YN	probably damaging
rs12180920	XP_496798	F	L	FL	benign
rs12181587	XP_496798	T	A	TA	benign
rs12182397	NP_005518	A	P	AP	probably damaging
rs12184494	NP_057659	A	E	AE	benign
rs12185233	NP_787078	R	P	RP	possibly damaging
rs12185268	NP_787078	I	V	IV	benign
rs12185498	NP_066296	S	L	SL	benign
rs12185800	NP_543024	D	Y	DY	probably damaging
rs12186491	NP_995313	T	P	TP	possibly damaging
rs12187140	NP_055201	P	L	PL	probably damaging
rs12187913	XP_087761	C	S	CS	benign
rs12188040	NP_008948	Q	K	QK	benign
rs12188040	NP_848511	Q	K	QK	benign
rs12188331	XP_496740	L	R	LR	benign
rs12188395	NP_060813	N	S	NS	benign
rs12190109	NP_000829	S	Y	SY	possibly damaging
rs12192054	NP_002717	L	V	LV	benign
rs12192544	NP_057677	R	P	RP	benign
rs12192712	NP_006070	H	R	HR	possibly damaging
rs12192877	XP_371818	T	K	TK	probably damaging
rs12193561	NP_066983	N	Y	NY	possibly damaging
rs12193711	XP_371835	S	F	SF	possibly damaging
rs12194205	NP_003795	V	A	VA	benign

rs12194408	NP_057143	C	S	CS	probably damaging
rs12194501	NP_775947	A	T	AT	benign
rs12194643	NP_775833	A	T	AT	benign
rs12194757	NP_054880	P	L	PL	probably damaging
rs12195603	NP_056386	R	P	RP	probably damaging
rs12195921	NP_005115	I	V	IV	benign
rs12197062	NP_085118	T	P	TP	benign
rs12197062	NP_005346	T	P	TP	benign
rs12197079	NP_775947	T	M	TM	benign
rs12197930	NP_005579	R	G	RG	possibly damaging
rs12198406	XP_496798	G	V	GV	benign
rs12198781	XP_294019	Q	H	QH	benign
rs12199003	NP_997293	R	C	RC	benign
rs12199580	NP_775947	H	P	HP	benign
rs12199734	NP_758438	H	R	HR	possibly damaging
rs12200929	XP_291161	K	R	KR	benign
rs12200969	NP_002033	M	V	MV	possibly damaging
rs12201388	NP_005091	E	K	EK	benign
rs12201388	NP_653080	E	K	EK	benign
rs12204826	NP_114130	E	K	EK	benign
rs12205138	NP_005501	A	V	AV	benign
rs12205497	NP_733758	T	A	TA	benign
rs12205497	NP_001122	T	A	TA	benign
rs12205731	NP_008978	A	T	AT	benign
rs12205837	NP_079335	A	V	AV	benign
rs12207430	NP_003634	S	F	SF	benign
rs12207437	NP_003634	S	F	SF	benign
rs12207561	XP_498116	T	I	TI	probably damaging
rs12207840	NP_060110	P	L	PL	probably damaging
rs12207853	NP_004146	S	N	SN	benign
rs12208357	NP_694857	R	C	RC	probably damaging
rs12208357	NP_003048	R	C	RC	probably damaging
rs12208559	NP_115859	P	R	PR	benign
rs12209266	NP_001714	H	R	HR	possibly damaging
rs12209452	NP_110447	L	P	LP	benign
rs12209636	NP_938206	S	N	SN	benign
rs12209822	NP_778227	A	T	AT	benign
rs12209851	NP_002022	R	K	RK	possibly damaging
rs12210538	NP_149116	M	T	MT	benign
rs12210601	NP_115896	E	K	EK	benign
rs12211410	NP_061978	R	H	RH	possibly damaging
rs12211658	NP_071396	F	S	FS	possibly damaging
rs12212092	NP_439893	R	H	RH	possibly damaging
rs12212092	NP_006769	R	H	RH	possibly damaging
rs12212199	NP_003128	R	K	RK	benign
rs12212246	NP_068812	A	V	AV	benign

rs12213253	NP_005882	S	F	SF	benign
rs12213435	NP_149062	D	Y	DY	probably damaging
rs12213435	NP_892006	D	Y	DY	probably damaging
rs12214183	NP_006819	E	K	EK	benign
rs12214456	NP_060838	T	A	TA	benign
rs12214686	XP_371818	R	G	RG	probably damaging
rs12217166	XP_290463	G	S	GS	benign
rs12217419	NP_110378	G	R	GR	benign
rs12217769	XP_291697	V	A	VA	benign
rs12218134	NP_065803	V	M	VM	benign
rs12218795	NP_055793	D	N	DN	benign
rs12218864	NP_055078	H	Y	HY	benign
rs12218864	NP_647474	H	Y	HY	benign
rs12218864	NP_647473	H	Y	HY	benign
rs12220646	XP_498431	Q	H	QH	possibly damaging
rs12221107	NP_085128	A	V	AV	benign
rs12221615	XP_166820	L	V	LV	benign
rs12221656	XP_166777	H	R	HR	benign
rs12222256	NP_892007	V	M	VM	benign
rs12222608	NP_009097	S	F	SF	benign
rs12222632	NP_079440	R	K	RK	benign
rs12223229	XP_166203	R	G	RG	possibly damaging
rs12223353	XP_495863	D	N	DN	benign
rs12223986	NP_005459	K	T	KT	benign
rs12224194	NP_113680	A	T	AT	benign
rs12224576	NP_060863	S	Y	SY	possibly damaging
rs12225010	XP_166256	I	M	IM	benign
rs12225035	XP_115100	M	K	MK	benign
rs12225230	NP_079440	P	R	PR	benign
rs12225892	NP_002398	E	K	EK	benign
rs12226919	NP_795370	H	N	HN	possibly damaging
rs12226920	NP_795370	H	Q	HQ	benign
rs12227879	NP_060385	V	M	VM	benign
rs12228937	NP_003797	T	S	TS	benign
rs12230214	NP_002855	L	V	LV	benign
rs12231057	NP_001978	Q	H	QH	benign
rs12231699	XP_037557	Q	H	QH	possibly damaging
rs12231744	NP_079229	K	R	KR	benign
rs12231990	NP_775813	A	V	AV	benign
rs12233719	NP_001065	A	S	AS	benign
rs12234087	NP_073739	S	F	SF	benign
rs12236219	NP_919301	R	C	RC	probably damaging
rs12237784	XP_030729	K	Q	KQ	benign
rs12237784	XP_497069	K	Q	KQ	benign
rs12238799	XP_372110	N	S	NS	benign
rs12239037	NP_444280	G	R	GR	probably damaging

rs12239356	NP_005392	V	F	VF	benign
rs12240051	NP_079455	A	T	AT	benign
rs12240233	NP_055440	L	P	LP	possibly damaging
rs12240677	XP_166132	A	G	AG	benign
rs12241340	NP_001299	L	F	LF	benign
rs12243537	NP_997255	R	C	RC	probably damaging
rs12243613	XP_497218	E	D	ED	benign
rs12244154	NP_775104	S	C	SC	benign
rs12247033	NP_689964	N	S	NS	benign
rs12247034	XP_372311	I	V	IV	benign
rs12247136	NP_862823	V	I	VI	benign
rs12248579	NP_006450	R	M	RM	probably damaging
rs12248937	NP_055704	A	D	AD	benign
rs12249258	NP_006405	S	R	SR	benign
rs12249258	NP_892117	S	R	SR	benign
rs12250107	XP_372303	A	P	AP	benign
rs12251609	NP_694579	P	L	PL	benign
rs12252659	NP_065969	N	H	NH	benign
rs12253220	NP_071896	E	K	EK	benign
rs12253554	NP_694988	A	V	AV	benign
rs12254516	XP_167709	V	L	VL	benign
rs12254856	NP_065850	S	N	SN	benign
rs12254915	NP_057318	T	A	TA	benign
rs12254915	NP_976314	T	A	TA	benign
rs12256262	NP_660153	W	L	WL	possibly damaging
rs12256834	NP_579899	Y	F	YF	benign
rs12256834	NP_038479	Y	F	YF	benign
rs12257493	NP_997255	L	P	LP	possibly damaging
rs12257830	NP_001100	R	C	RC	benign
rs12258692	NP_067635	R	P	RP	probably damaging
rs12259370	NP_001072	G	R	GR	probably damaging
rs12259382	NP_071896	T	S	TS	benign
rs12259434	XP_374765	E	K	EK	benign
rs12259677	NP_932160	P	T	PT	possibly damaging
rs12259677	NP_932163	P	T	PT	possibly damaging
rs12259677	NP_932161	P	T	PT	probably damaging
rs12259677	NP_932162	P	T	PT	probably damaging
rs12260094	NP_000233	N	Y	NY	probably damaging
rs12260663	NP_066267	S	T	ST	benign
rs12260735	XP_495808	T	M	TM	benign
rs12260996	XP_290463	V	L	VL	benign
rs12261131	NP_006195	E	A	EA	benign
rs12261793	NP_001140	I	V	IV	benign
rs12262099	NP_056428	P	T	PT	possibly damaging
rs12262171	NP_036361	Q	R	QR	benign
rs12262762	XP_497218	S	L	SL	benign



rs12262894	NP_150598	G	D	GD	benign
rs12263572	NP_005032	V	M	VM	benign
rs12264479	XP_497218	C	Y	CY	benign
rs12265409	XP_497249	A	G	AG	benign
rs12265848	NP_060587	R	H	RH	possibly damaging
rs12266692	NP_963884	T	A	TA	benign
rs12267385	NP_777550	H	Y	HY	possibly damaging
rs12267912	NP_056036	E	D	ED	benign
rs12268154	NP_996744	M	R	MR	benign
rs12268154	NP_996742	M	R	MR	probably damaging
rs12268154	NP_996743	M	R	MR	probably damaging
rs12268154	NP_008928	M	R	MR	probably damaging
rs12268559	NP_659460	K	T	KT	benign
rs12268608	XP_374779	L	F	LF	benign
rs12268932	NP_067075	N	S	NS	benign
rs12269953	XP_372425	G	D	GD	possibly damaging
rs12269953	XP_372426	G	D	GD	possibly damaging
rs12270001	NP_899070	K	E	KE	benign
rs12270001	NP_063947	K	E	KE	benign
rs12270203	XP_291838	F	S	FS	possibly damaging
rs12271558	NP_004802	P	T	PT	benign
rs12271907	NP_071452	N	K	NK	benign
rs12272017	NP_116114	R	H	RH	benign
rs12272255	NP_689644	K	R	KR	benign
rs12272403	XP_166805	Q	R	QR	benign
rs12272419	NP_112494	T	A	TA	benign
rs12273710	NP_060729	S	N	SN	benign
rs12273892	NP_620060	L	Q	LQ	benign
rs12273892	NP_055895	L	Q	LQ	benign
rs12274095	NP_620123	P	T	PT	possibly damaging
rs12274730	XP_062025	K	E	KE	benign
rs12274922	NP_064614	T	I	TI	benign
rs12274923	NP_058648	A	V	AV	benign
rs12275336	NP_000251	G	S	GS	benign
rs12276180	XP_497281	V	G	VG	possibly damaging
rs12276475	NP_002224	P	T	PT	benign
rs12276921	NP_689644	Q	R	QR	benign
rs12278682	XP_372401	R	C	RC	probably damaging
rs12278968	NP_000686	W	L	WL	probably damaging
rs12279895	XP_497297	K	R	KR	possibly damaging
rs12280114	XP_497297	N	S	NS	probably damaging
rs12281163	NP_003763	V	L	VL	benign
rs12281468	NP_079374	C	Y	CY	probably damaging
rs12282107	NP_733746	K	R	KR	benign
rs12282627	NP_005889	Q	H	QH	possibly damaging
rs12282627	NP_976240	Q	H	QH	possibly damaging

rs12282741	NP_004168	E	D	ED	benign
rs12282811	NP_002412	R	S	RS	benign
rs12283031	NP_073609	R	Q	RQ	benign
rs12283300	NP_689776	A	S	AS	benign
rs12283300	NP_060642	S	A	SA	benign
rs12283346	NP_060642	P	R	PR	possibly damaging
rs12283346	NP_689776	R	P	RP	probably damaging
rs12283777	XP_372418	I	T	IT	benign
rs12284316	NP_003177	N	S	NS	possibly damaging
rs12284429	XP_495863	L	P	LP	possibly damaging
rs12284579	NP_060960	A	V	AV	benign
rs12284790	XP_497297	R	C	RC	possibly damaging
rs12284792	XP_497281	E	A	EA	benign
rs12285035	NP_057080	T	M	TM	benign
rs12286721	NP_079059	M	I	MI	benign
rs12286850	NP_055159	R	H	RH	benign
rs12287555	NP_620714	L	V	LV	benign
rs12288690	XP_166868	A	T	AT	benign
rs12288849	NP_443164	A	T	AT	benign
rs12289253	NP_116169	Q	R	QR	benign
rs12289420	XP_208554	E	K	EK	benign
rs12289558	NP_937828	T	A	TA	benign
rs12291002	NP_006319	Y	C	YC	probably damaging
rs12291017	NP_473372	R	C	RC	possibly damaging
rs12291445	XP_374912	K	E	KE	benign
rs12291577	XP_089866	S	N	SN	benign
rs12291617	XP_166825	V	I	VI	benign
rs12291622	XP_291947	R	C	RC	possibly damaging
rs12292056	XP_497275	T	N	TN	possibly damaging
rs12292126	NP_000686	W	G	WG	probably damaging
rs12292394	NP_056076	R	Q	RQ	benign
rs12293826	XP_290517	V	I	VI	benign
rs12295161	NP_005447	R	Q	RQ	probably damaging
rs12295719	NP_002418	D	H	DH	benign
rs12296548	NP_056932	E	K	EK	probably damaging
rs12297756	NP_005370	C	S	CS	benign
rs12298022	NP_079229	L	I	LI	benign
rs12298275	NP_078827	Q	R	QR	benign
rs12298348	NP_775109	R	H	RH	benign
rs12298510	NP_064693	R	K	RK	benign
rs12298510	NP_064694	R	K	RK	benign
rs12298510	NP_005682	R	K	RK	benign
rs12299012	NP_062818	V	A	VA	benign
rs12299908	NP_115506	E	Q	EQ	benign
rs12301587	XP_044062	F	I	FI	benign
rs12302417	XP_372471	A	V	AV	benign

rs12303066	XP_497345	R	C	RC	possibly damaging
rs12303478	NP_689535	G	S	GS	possibly damaging
rs12303732	NP_055318	L	W	LW	possibly damaging
rs12303775	NP_003658	H	R	HR	probably damaging
rs12305038	NP_000912	N	D	ND	benign
rs12305753	XP_370696	S	F	SF	possibly damaging
rs12306130	NP_003836	A	T	AT	benign
rs12307919	NP_036372	R	C	RC	probably damaging
rs12308297	NP_055879	Q	H	QH	possibly damaging
rs12308297	NP_829881	Q	H	QH	possibly damaging
rs12308297	NP_829882	Q	H	QH	possibly damaging
rs12308297	NP_829883	Q	H	QH	possibly damaging
rs12308297	NP_829884	Q	H	QH	possibly damaging
rs12308865	NP_038459	P	H	PH	probably damaging
rs12309295	XP_495917	L	V	LV	benign
rs12311351	NP_061857	V	I	VI	benign
rs12312471	XP_372447	S	R	SR	possibly damaging
rs12313520	XP_497335	L	M	LM	benign
rs12313670	NP_005077	S	N	SN	benign
rs12313736	NP_005077	V	I	VI	benign
rs12314553	NP_776173	V	I	VI	benign
rs12315800	XP_372471	F	L	FL	benign
rs12315898	NP_075067	S	N	SN	benign
rs12317430	NP_000280	S	F	SF	possibly damaging
rs12317722	NP_945343	S	I	SI	benign
rs12318612	NP_795366	P	R	PR	possibly damaging
rs12318746	NP_002196	R	I	RI	probably damaging
rs12318785	NP_004849	I	V	IV	benign
rs12318802	XP_495908	A	T	AT	benign
rs12319376	NP_829883	T	A	TA	benign
rs12319376	NP_829884	T	A	TA	benign
rs12319476	NP_060034	E	K	EK	benign
rs12320176	NP_001973	N	S	NS	benign
rs12321185	XP_292109	A	E	AE	benign
rs12321831	NP_006602	R	C	RC	benign
rs12321909	XP_292093	K	E	KE	benign
rs12322122	NP_085911	H	Y	HY	possibly damaging
rs12322444	NP_710154	Q	H	QH	possibly damaging
rs12323601	XP_290629	A	V	AV	benign
rs12323939	NP_857593	T	R	TR	benign
rs12323939	NP_003701	T	R	TR	benign
rs12324002	NP_000129	I	T	IT	benign
rs12324924	NP_003861	S	A	SA	benign
rs12325439	NP_071449	P	A	PA	benign
rs12326301	XP_029429	R	C	RC	possibly damaging
rs12327568	XP_496306	K	R	KR	benign

rs12327617	XP_375569	E	G	EG	possibly damaging
rs12327801	XP_375558	S	T	ST	benign
rs12328094	NP_057336	L	F	LF	benign
rs12329487	NP_036202	V	I	VI	benign
rs12329487	NP_647538	V	I	VI	benign
rs12329487	NP_647537	V	I	VI	benign
rs12329760	NP_005647	M	V	MV	benign
rs12329790	NP_000062	I	T	IT	probably damaging
rs12330040	XP_496525	A	P	AP	possibly damaging
rs12330063	NP_612444	R	S	RS	benign
rs12331141	NP_872308	V	I	VI	benign
rs12331994	NP_689753	H	L	HL	probably damaging
rs12332369	NP_079143	E	G	EG	benign
rs12332640	NP_001198	A	T	AT	benign
rs12332798	NP_115900	P	R	PR	probably damaging
rs12335014	NP_443169	I	N	IN	benign
rs12335650	XP_372110	G	D	GD	possibly damaging
rs12336109	XP_088459	L	I	LI	benign
rs12336575	NP_006639	Q	H	QH	benign
rs12336965	NP_892019	A	E	AE	probably damaging
rs12337034	NP_659401	V	A	VA	benign
rs12337130	NP_071738	G	D	GD	possibly damaging
rs12337164	XP_498308	K	R	KR	possibly damaging
rs12337286	XP_035953	N	D	ND	benign
rs12337910	NP_997394	K	E	KE	benign
rs12338411	XP_499140	K	N	KN	benign
rs12339171	NP_079515	S	T	ST	benign
rs12339210	NP_056219	P	A	PA	possibly damaging
rs12339470	XP_372125	D	E	DE	benign
rs12339582	NP_006368	E	D	ED	benign
rs12339753	XP_497020	L	V	LV	benign
rs12340616	NP_937823	L	H	LH	possibly damaging
rs12341266	NP_652760	C	Y	CY	probably damaging
rs12341325	XP_497051	F	L	FL	benign
rs12341435	NP_671728	E	D	ED	benign
rs12341576	XP_035953	I	T	IT	benign
rs12342214	NP_079104	V	M	VM	benign
rs12342367	NP_116232	A	V	AV	benign
rs12342958	NP_060857	A	V	AV	benign
rs12344006	NP_055861	K	N	KN	benign
rs12344570	NP_008912	S	G	SG	benign
rs12344570	NP_775290	S	G	SG	benign
rs12344570	NP_775291	S	G	SG	benign
rs12344570	NP_775292	S	G	SG	benign
rs12345231	XP_294521	H	R	HR	benign
rs12346677	NP_004226	P	L	PL	probably damaging

rs12348638	XP_372125	R	G	RG	probably damaging
rs12349422	XP_054983	D	N	DN	benign
rs12349568	NP_671728	A	S	AS	benign
rs12350212	NP_919301	Q	H	QH	probably damaging
rs12350674	XP_497078	N	K	NK	benign
rs12350787	NP_006639	Q	P	QP	benign
rs12350913	NP_068836	L	P	LP	possibly damaging
rs12351796	XP_041018	D	G	DG	possibly damaging
rs12352254	NP_598004	L	V	LV	benign
rs12352313	NP_694856	N	S	NS	benign
rs12352552	XP_373322	H	Y	HY	benign
rs12352982	NP_055861	P	L	PL	benign
rs12353144	XP_372110	N	S	NS	benign
rs12353152	NP_954714	R	S	RS	benign
rs12353275	XP_372133	E	D	ED	benign
rs12353306	XP_372133	E	K	EK	benign
rs12353307	NP_037522	A	V	AV	benign
rs12354200	NP_003272	A	T	AT	benign
rs12354808	XP_290463	S	T	ST	benign
rs12354886	NP_660355	A	T	AT	benign
rs12355309	NP_079511	V	I	VI	benign
rs12356107	XP_290463	P	R	PR	probably damaging
rs12356978	NP_060079	E	K	EK	benign
rs12357325	NP_001140	A	S	AS	benign
rs12357783	NP_001600	E	G	EG	possibly damaging
rs12359281	XP_374779	I	V	IV	benign
rs12360068	NP_071757	A	V	AV	benign
rs12360326	NP_057712	L	F	LF	benign
rs12360326	NP_567822	L	F	LF	benign
rs12360326	NP_567823	L	F	LF	benign
rs12360738	XP_497266	V	I	VI	benign
rs12360861	NP_006716	A	T	AT	benign
rs12360890	XP_372394	S	G	SG	benign
rs12361947	NP_659452	R	K	RK	benign
rs12361955	XP_061624	L	F	LF	benign
rs12362209	NP_775827	T	A	TA	benign
rs12362443	NP_061182	A	V	AV	benign
rs12362779	NP_689408	A	V	AV	benign
rs12363178	XP_372361	W	G	WG	possibly damaging
rs12363627	XP_166777	S	L	SL	possibly damaging
rs12363823	XP_497270	A	T	AT	benign
rs12363829	XP_166872	R	K	RK	benign
rs12364099	XP_372434	T	N	TN	benign
rs12364102	XP_166856	M	I	MI	benign
rs12364710	NP_003360	L	V	LV	benign
rs12364852	NP_542385	H	N	HN	possibly damaging

rs12365487	XP_372364	T	N	TN	possibly damaging
rs12365708	NP_004914	C	R	CR	probably damaging
rs12366219	XP_166777	M	V	MV	benign
rs12366447	NP_065813	A	T	AT	benign
rs12366644	NP_068593	G	R	GR	possibly damaging
rs12366671	NP_006413	I	T	IT	benign
rs12367362	NP_036423	L	M	LM	benign
rs12367528	NP_003202	P	H	PH	possibly damaging
rs12367772	XP_497336	L	P	LP	possibly damaging
rs12368048	NP_872414	T	N	TN	benign
rs12368261	NP_002226	S	Y	SY	probably damaging
rs12368599	NP_003970	T	A	TA	benign
rs12368787	NP_872302	V	F	VF	possibly damaging
rs12369620	NP_938083	S	I	SI	probably damaging
rs12369931	NP_079085	D	H	DH	possibly damaging
rs12369946	NP_002323	V	M	VM	benign
rs12371126	NP_055718	S	F	SF	benign
rs12371196	NP_659410	E	D	ED	benign
rs12371434	NP_689804	L	S	LS	benign
rs12371985	XP_208658	G	E	GE	possibly damaging
rs12373018	NP_057376	D	E	DE	benign
rs12373105	NP_150229	F	L	FL	benign
rs12373123	NP_787078	S	P	SP	benign
rs12373139	NP_787078	G	R	GR	benign
rs12373142	NP_787078	P	R	PR	benign
rs12373540	NP_848639	L	F	LF	benign
rs12374616	NP_660358	A	T	AT	benign
rs12375120	XP_371925	R	C	RC	benign
rs12375120	NP_775808	R	C	RC	benign
rs12375759	XP_088459	A	S	AS	benign
rs12375774	XP_498338	T	S	TS	benign
rs12375815	NP_001726	V	I	VI	benign
rs12375931	XP_498338	I	V	IV	benign
rs12375945	XP_372110	S	R	SR	benign
rs12377346	NP_000709	E	K	EK	benign
rs12377939	XP_372092	D	N	DN	benign
rs12377939	XP_497031	D	N	DN	benign
rs12378280	NP_055433	Q	H	QH	possibly damaging
rs12378799	XP_497012	R	C	RC	probably damaging
rs12379789	XP_378080	R	T	RT	benign
rs12380064	XP_071099	S	T	ST	benign
rs12380858	XP_497079	A	V	AV	benign
rs12385494	XP_377053	E	G	EG	possibly damaging
rs12385818	NP_006829	K	E	KE	benign
rs12385864	XP_372494	T	M	TM	benign
rs12386087	XP_371111	N	K	NK	benign

rs12386117	NP_056025	G	S	GS	benign
rs12387194	NP_005360	Q	K	QK	benign
rs12388502	NP_003060	E	Q	EQ	benign
rs12388502	NP_620604	E	Q	EQ	benign
rs12388557	XP_066690	R	W	RW	probably damaging
rs12388875	NP_001640	S	W	SW	possibly damaging
rs12390168	XP_291322	A	S	AS	benign
rs12392549	NP_000160	I	S	IS	benign
rs12393480	NP_001546	S	N	SN	benign
rs12394468	NP_076987	R	L	RL	probably damaging
rs12395634	NP_001447	A	V	AV	possibly damaging
rs12396910	NP_056234	T	A	TA	benign
rs12401376	XP_086604	G	E	GE	benign
rs12401421	NP_064601	H	P	HP	probably damaging
rs12401572	NP_002370	K	I	KI	probably damaging
rs12401867	NP_658912	K	R	KR	benign
rs12402493	NP_112180	I	F	IF	benign
rs12402606	NP_065948	R	M	RM	possibly damaging
rs12402973	NP_997303	R	Q	RQ	benign
rs12403174	NP_003027	S	C	SC	possibly damaging
rs12403246	NP_060686	R	W	RW	benign
rs12403266	NP_006104	Q	H	QH	benign
rs12403630	NP_671517	R	H	RH	benign
rs12403630	NP_056362	R	H	RH	benign
rs12403726	NP_064601	A	V	AV	benign
rs12404749	NP_003751	R	K	RK	benign
rs12404909	NP_060768	T	P	TP	probably damaging
rs12405241	XP_048104	A	V	AV	benign
rs12405278	XP_048104	R	C	RC	benign
rs12405650	XP_496357	V	I	VI	benign
rs12406225	NP_751896	E	G	EG	possibly damaging
rs12406225	NP_002473	E	G	EG	possibly damaging
rs12406460	NP_006173	G	R	GR	benign
rs12406479	NP_000060	A	G	AG	benign
rs12406724	NP_078801	P	L	PL	possibly damaging
rs12406753	NP_002499	T	P	TP	benign
rs12407578	NP_056193	S	L	SL	benign
rs12407748	XP_048104	R	Q	RQ	benign
rs12407807	XP_048104	R	H	RH	probably damaging
rs12407929	NP_075558	G	R	GR	possibly damaging
rs12409352	NP_660150	F	L	FL	benign
rs12409430	NP_006305	P	L	PL	benign
rs12409951	NP_085152	E	Q	EQ	benign
rs12410563	NP_056261	L	V	LV	benign
rs12410676	NP_006104	P	S	PS	probably damaging
rs12410711	NP_000428	G	S	GS	possibly damaging

rs12411033	XP_496355	A	V	AV	benign
rs12411176	NP_004969	C	Y	CY	benign
rs12411176	NP_720198	C	Y	CY	benign
rs12411292	XP_290463	E	K	EK	benign
rs12411979	XP_290462	A	V	AV	benign
rs12412136	NP_003963	A	V	AV	benign
rs12412320	XP_061055	D	E	DE	benign
rs12412617	NP_055568	R	H	RH	possibly damaging
rs12412738	NP_065803	E	Q	EQ	benign
rs12413253	XP_051081	I	M	IM	benign
rs12413389	NP_004410	A	S	AS	benign
rs12413968	NP_057279	R	C	RC	benign
rs12414460	NP_000762	R	Q	RQ	probably damaging
rs12415264	NP_689923	P	L	PL	possibly damaging
rs12417164	XP_061624	I	N	IN	possibly damaging
rs12417903	NP_003728	A	G	AG	benign
rs12417980	NP_065091	G	R	GR	benign
rs12418097	NP_000471	R	G	RG	possibly damaging
rs12419103	NP_612465	G	S	GS	benign
rs12419308	NP_056346	S	N	SN	benign
rs12419343	NP_066025	V	G	VG	probably damaging
rs12419616	NP_659477	A	P	AP	benign
rs12419635	NP_996776	P	L	PL	benign
rs12420076	XP_372403	K	Q	KQ	benign
rs12420456	XP_495880	A	V	AV	benign
rs12420738	XP_166914	R	L	RL	possibly damaging
rs12420809	XP_497279	E	K	EK	benign
rs12421330	XP_372403	G	C	GC	benign
rs12421620	NP_005691	E	K	EK	benign
rs12422096	XP_290540	H	Q	HQ	possibly damaging
rs12422129	XP_372436	T	I	TI	possibly damaging
rs12422129	XP_166777	T	I	TI	possibly damaging
rs12422149	NP_009187	R	Q	RQ	benign
rs12422501	NP_037452	E	K	EK	benign
rs12422983	NP_006096	G	S	GS	benign
rs12423058	NP_689853	N	D	ND	benign
rs12423276	NP_036538	V	I	VI	benign
rs12423651	NP_612642	P	L	PL	probably damaging
rs12423862	XP_058513	P	L	PL	probably damaging
rs12424159	XP_044062	G	R	GR	possibly damaging
rs12424373	NP_795369	K	Q	KQ	benign
rs12424429	NP_877499	A	V	AV	benign
rs12424437	NP_055680	R	H	RH	possibly damaging
rs12425042	NP_775813	R	C	RC	possibly damaging
rs12425460	XP_292136	R	C	RC	benign
rs12425518	XP_292136	A	T	AT	benign



rs12425701	XP_495908	E	K	EK	benign
rs12425728	NP_000005	R	Q	RQ	possibly damaging
rs12425852	NP_115885	S	A	SA	benign
rs12426596	XP_044062	T	S	TS	benign
rs12427129	NP_055027	A	V	AV	benign
rs12427696	NP_002001	I	V	IV	benign
rs12428067	NP_115812	P	R	PR	probably damaging
rs12428644	NP_009118	A	V	AV	benign
rs12429125	XP_495949	P	R	PR	probably damaging
rs12429632	NP_055749	K	E	KE	benign
rs12429632	NP_945319	K	E	KE	benign
rs12433837	XP_290629	V	I	VI	benign
rs12433841	XP_290629	R	H	RH	benign
rs12434716	NP_071406	A	P	AP	benign
rs12434716	NP_775182	A	P	AP	benign
rs12434757	NP_689805	V	A	VA	benign
rs12434929	NP_079108	G	A	GA	benign
rs12436892	NP_054888	A	V	AV	benign
rs12437266	NP_612204	P	S	PS	probably damaging
rs12437434	XP_370756	T	M	TM	benign
rs12437941	XP_085234	G	S	GS	benign
rs12438969	XP_496032	V	L	VL	benign
rs12439065	NP_079093	D	N	DN	benign
rs12440118	NP_071918	W	R	WR	probably damaging
rs12440300	XP_290631	M	V	MV	benign
rs12440560	NP_775880	T	I	TI	benign
rs12441101	NP_061159	H	R	HR	possibly damaging
rs12441468	XP_496032	L	I	LI	benign
rs12441978	XP_034904	E	K	EK	benign
rs12442525	NP_057726	Q	E	QE	benign
rs12442757	NP_066013	N	S	NS	benign
rs12442879	NP_996923	G	S	GS	benign
rs12442879	NP_996920	G	S	GS	benign
rs12442879	NP_996921	G	S	GS	benign
rs12445220	NP_003447	A	D	AD	benign
rs12445920	XP_372607	R	Q	RQ	benign
rs12446946	NP_002696	E	Q	EQ	benign
rs12447370	NP_065815	P	L	PL	probably damaging
rs12447441	NP_000284	N	T	NT	benign
rs12447755	NP_954651	K	R	KR	benign
rs12448103	XP_085463	L	P	LP	possibly damaging
rs12448192	XP_290684	T	A	TA	benign
rs12448210	NP_775747	V	L	VL	benign
rs12449313	NP_658988	N	S	NS	benign
rs12449332	NP_002936	S	F	SF	possibly damaging
rs12449580	NP_055151	D	H	DH	possibly damaging

rs12449695	NP_940903	T	A	TA	benign
rs12449858	NP_009198	F	L	FL	benign
rs12450091	NP_061000	E	G	EG	possibly damaging
rs12450314	NP_005984	F	L	FL	benign
rs12450550	NP_689676	I	T	IT	benign
rs12450621	NP_002270	E	K	EK	possibly damaging
rs12451299	NP_071450	T	R	TR	benign
rs12451652	NP_002271	C	Y	CY	probably damaging
rs12451679	XP_496206	S	L	SL	benign
rs12452520	NP_001356	G	S	GS	possibly damaging
rs12453124	NP_853515	K	E	KE	possibly damaging
rs12453150	NP_689483	F	V	FV	benign
rs12453250	NP_653208	F	L	FL	possibly damaging
rs12453843	NP_853515	G	V	GV	possibly damaging
rs12454500	XP_496269	M	I	MI	benign
rs12455750	NP_776216	W	G	WG	probably damaging
rs12455750	NP_006776	W	G	WG	probably damaging
rs12456560	NP_006092	E	D	ED	benign
rs12457323	NP_937762	V	A	VA	benign
rs12458669	NP_064565	G	S	GS	benign
rs12459008	XP_064856	I	N	IN	probably damaging
rs12459084	XP_050564	G	R	GR	possibly damaging
rs12459238	NP_659483	V	I	VI	benign
rs12459317	XP_496286	I	T	IT	probably damaging
rs12459398	NP_114147	V	M	VM	benign
rs12459404	NP_002686	F	S	FS	benign
rs12459416	NP_055699	L	I	LI	benign
rs12459500	XP_377527	R	Q	RQ	benign
rs12459836	NP_005295	M	V	MV	benign
rs12459836	NP_005296	M	V	MV	benign
rs12459877	NP_001396	S	Y	SY	possibly damaging
rs12459916	NP_110412	A	V	AV	benign
rs12460007	NP_940880	H	Q	HQ	possibly damaging
rs12460170	NP_079009	A	V	AV	benign
rs12460371	NP_848639	E	G	EG	benign
rs12460394	NP_065955	R	Q	RQ	benign
rs12460416	XP_371195	E	Q	EQ	benign
rs12460449	NP_113605	E	Q	EQ	possibly damaging
rs12460501	NP_006660	A	T	AT	benign
rs12460590	NP_085079	V	G	VG	benign
rs12460590	NP_000755	V	G	VG	benign
rs12460628	XP_064903	I	F	IF	benign
rs12460779	XP_290822	A	T	AT	benign
rs12460873	NP_077274	P	S	PS	probably damaging
rs12460932	NP_201574	E	D	ED	benign
rs12460961	NP_689818	R	Q	RQ	benign

rs12460962	XP_371195	A	V	AV	benign
rs12461139	NP_059128	Q	H	QH	benign
rs12461347	NP_112163	G	S	GS	benign
rs12461709	NP_620168	H	P	HP	probably damaging
rs12462372	NP_604393	R	H	RH	benign
rs12462687	NP_060730	L	V	LV	benign
rs12462918	NP_085079	N	Y	NY	benign
rs12462918	NP_000755	N	Y	NY	benign
rs12462929	XP_030958	H	R	HR	benign
rs12462966	XP_375634	R	W	RW	benign
rs12462974	XP_371146	T	A	TA	benign
rs12463034	XP_375634	G	E	GE	benign
rs12463036	XP_375634	E	Q	EQ	benign
rs12463121	NP_663299	V	G	VG	probably damaging
rs12464423	NP_056465	K	N	KN	benign
rs12466181	NP_066918	S	I	SI	possibly damaging
rs12466309	NP_073153	T	A	TA	benign
rs12466551	XP_043492	N	S	NS	benign
rs12467132	NP_003133	A	D	AD	possibly damaging
rs12467443	XP_497871	V	M	VM	benign
rs12468485	NP_005292	T	M	TM	benign
rs12469459	NP_071417	L	M	LM	benign
rs12469825	NP_689742	T	A	TA	benign
rs12470652	NP_000224	N	S	NS	benign
rs12470774	NP_071451	L	I	LI	benign
rs12471868	NP_872357	I	V	IV	benign
rs12471954	XP_086937	I	T	IT	benign
rs12472091	NP_036587	S	P	SP	benign
rs12472441	XP_496593	P	L	PL	possibly damaging
rs12474273	NP_008853	V	A	VA	benign
rs12474918	NP_071451	T	S	TS	benign
rs12475068	NP_061951	A	G	AG	benign
rs12476147	NP_919226	Q	L	QL	possibly damaging
rs12476171	NP_004845	Y	N	YN	probably damaging
rs12476284	NP_060259	E	V	EV	possibly damaging
rs12476289	NP_596870	R	Q	RQ	benign
rs12477430	NP_919226	H	R	HR	benign
rs12477907	XP_380174	A	T	AT	benign
rs12477907	NP_945349	A	T	AT	benign
rs12478227	XP_293026	R	C	RC	probably damaging
rs12478318	NP_002968	M	L	ML	benign
rs12479154	NP_002184	E	Q	EQ	benign
rs12479499	NP_847901	H	P	HP	probably damaging
rs12479499	NP_847902	H	P	HP	probably damaging
rs12479499	NP_001492	H	P	HP	probably damaging
rs12479563	XP_114156	R	C	RC	possibly damaging

rs12479626	NP_775114	H	R	HR	possibly damaging
rs12479696	NP_079496	P	L	PL	possibly damaging
rs12479696	NP_694882	P	L	PL	probably damaging
rs12479813	NP_004578	R	L	RL	possibly damaging
rs12480603	NP_057518	E	D	ED	benign
rs12480603	NP_116575	E	D	ED	benign
rs12481055	XP_372866	K	Q	KQ	benign
rs12481082	NP_004509	S	L	SL	benign
rs12481082	NP_742104	S	L	SL	benign
rs12481082	NP_742106	S	L	SL	benign
rs12481082	NP_742105	S	L	SL	benign
rs12481228	NP_690908	P	R	PR	benign
rs12481791	NP_006022	A	V	AV	benign
rs12481809	NP_859012	V	I	VI	benign
rs12482626	NP_065690	S	N	SN	benign
rs12483104	NP_001380	D	Y	DY	probably damaging
rs12483134	NP_000821	E	K	EK	benign
rs12483134	NP_783300	E	K	EK	benign
rs12483584	NP_981950	P	T	PT	possibly damaging
rs12483730	NP_859012	A	V	AV	benign
rs12484461	XP_371430	S	F	SF	possibly damaging
rs12484657	NP_060399	L	V	LV	benign
rs12484684	NP_055154	P	Q	PQ	possibly damaging
rs12484731	NP_067585	D	E	DE	benign
rs12484731	NP_004318	D	E	DE	benign
rs12484816	NP_542942	V	G	VG	possibly damaging
rs12484828	NP_699165	H	L	HL	probably damaging
rs12484828	NP_878315	H	L	HL	probably damaging
rs12485025	XP_496526	S	I	SI	benign
rs12486358	NP_003326	R	Q	RQ	benign
rs12487205	NP_849144	Y	H	YH	benign
rs12487736	NP_036367	I	V	IV	benign
rs12488237	NP_056391	N	S	NS	benign
rs12488416	NP_071503	A	V	AV	benign
rs12488879	NP_009113	H	R	HR	probably damaging
rs12488879	NP_733831	H	R	HR	probably damaging
rs12488879	NP_733833	H	R	HR	probably damaging
rs12488879	NP_733832	H	R	HR	probably damaging
rs12489516	NP_001861	M	T	MT	probably damaging
rs12490341	NP_057022	E	K	EK	benign
rs12491032	NP_066360	R	S	RS	possibly damaging
rs12491947	NP_004935	N	K	NK	benign
rs12492080	NP_003839	R	Q	RQ	benign
rs12492494	NP_705616	A	V	AV	benign
rs12492643	NP_733762	R	W	RW	probably damaging
rs12493789	NP_000379	T	A	TA	benign

rs12495050	NP_005769	S	N	SN	benign
rs12495272	XP_045290	E	D	ED	benign
rs12495696	NP_690849	S	G	SG	benign
rs12495784	NP_079541	R	H	RH	benign
rs12495998	NP_009115	T	P	TP	benign
rs12498226	NP_056011	T	P	TP	benign
rs12498340	NP_861522	T	A	TA	benign
rs12498609	NP_060098	P	R	PR	probably damaging
rs12500797	NP_542415	E	K	EK	benign
rs12500797	NP_542416	E	K	EK	benign
rs12500797	NP_006255	E	K	EK	benign
rs12500797	NP_542414	E	K	EK	benign
rs12502450	NP_002904	I	N	IN	probably damaging
rs12504081	NP_065926	L	I	LI	benign
rs12504081	NP_116252	L	I	LI	benign
rs12504081	NP_996672	L	I	LI	benign
rs12505221	XP_087490	L	M	LM	benign
rs12506450	XP_052597	Q	R	QR	benign
rs12507099	NP_942595	T	S	TS	benign
rs12507229	NP_055093	N	T	NT	probably damaging
rs12507582	XP_037817	C	Y	CY	probably damaging
rs12507775	NP_958834	S	P	SP	benign
rs12508222	NP_078858	D	N	DN	benign
rs12508837	NP_835144	P	R	PR	benign
rs12508837	NP_060548	P	R	PR	probably damaging
rs12509110	NP_056051	L	V	LV	benign
rs12509135	NP_000892	S	L	SL	possibly damaging
rs12510688	XP_496710	C	R	CR	probably damaging
rs12512164	NP_996672	E	K	EK	benign
rs12512551	NP_006656	A	G	AG	benign
rs12513290	NP_004353	R	W	RW	benign
rs12514417	NP_001173	K	Q	KQ	benign
rs12514461	NP_705838	K	E	KE	benign
rs12515587	NP_115796	H	P	HP	benign
rs12515688	NP_061760	E	K	EK	possibly damaging
rs12516652	NP_065847	D	E	DE	benign
rs12517177	NP_037367	L	V	LV	benign
rs12517385	NP_115796	L	F	LF	benign
rs12517689	NP_004282	L	M	LM	benign
rs12519525	NP_056031	E	K	EK	benign
rs12519612	XP_047995	T	P	TP	possibly damaging
rs12520040	NP_056031	R	K	RK	benign
rs12520149	NP_001456	P	L	PL	probably damaging
rs12520455	NP_005566	N	I	NI	probably damaging
rs12520467	NP_835260	D	E	DE	benign
rs12520516	NP_861439	P	S	PS	benign

rs12520591	NP_852478	I	M	IM	benign
rs12520927	NP_003305	E	K	EK	benign
rs12521930	NP_004408	D	H	DH	possibly damaging
rs12522205	NP_689616	R	P	RP	probably damaging
rs12522955	NP_060610	P	T	PT	possibly damaging
rs12523297	XP_498008	I	F	IF	benign
rs12523365	NP_954854	F	L	FL	benign
rs12523814	NP_006705	H	Y	HY	benign
rs12524664	NP_061978	P	L	PL	probably damaging
rs12527029	NP_060110	R	C	RC	probably damaging
rs12528378	NP_002215	R	Q	RQ	benign
rs12528473	NP_619645	K	Q	KQ	benign
rs12528542	NP_944602	T	P	TP	benign
rs12528684	NP_006780	G	R	GR	probably damaging
rs12528714	NP_114155	Q	H	QH	benign
rs12530146	NP_055426	E	K	EK	benign
rs12530380	NP_000491	V	E	VE	possibly damaging
rs12530633	NP_065779	E	K	EK	benign
rs12532654	XP_380107	W	S	WS	probably damaging
rs12532726	NP_775835	R	G	RG	possibly damaging
rs12534498	NP_065943	V	I	VI	benign
rs12534509	XP_376720	E	K	EK	benign
rs12535348	NP_620166	A	T	AT	benign
rs12535939	XP_373223	A	V	AV	benign
rs12536223	NP_061111	P	L	PL	benign
rs12536873	XP_376720	Q	H	QH	possibly damaging
rs12537344	XP_498210	P	L	PL	probably damaging
rs12537426	XP_376720	P	H	PH	possibly damaging
rs12537506	NP_006515	E	A	EA	benign
rs12538164	XP_380107	H	Q	HQ	possibly damaging
rs12540098	NP_078999	A	P	AP	benign
rs12540098	NP_891554	A	P	AP	benign
rs12540583	NP_945341	S	A	SA	benign
rs12540919	NP_004394	V	M	VM	benign
rs12540944	NP_059998	V	I	VI	benign
rs12541381	NP_065914	P	S	PS	possibly damaging
rs12542399	NP_116291	D	N	DN	benign
rs12543389	XP_372063	Y	C	YC	probably damaging
rs12544296	XP_496978	G	S	GS	possibly damaging
rs12544854	NP_004306	M	V	MV	benign
rs12544854	NP_808592	M	V	MV	benign
rs12545877	NP_002155	R	K	RK	benign
rs12546893	NP_078997	A	V	AV	benign
rs12547305	NP_116251	E	K	EK	benign
rs12547645	NP_079471	E	K	EK	benign
rs12548737	NP_919260	V	M	VM	benign

rs12549052	NP_113654	L	M	LM	benign
rs12549394	NP_003497	A	E	AE	benign
rs12549973	XP_291277	A	T	AT	benign
rs12549991	NP_056069	A	P	AP	benign
rs12551333	NP_054862	D	H	DH	possibly damaging
rs12551345	NP_057609	M	T	MT	possibly damaging
rs12551350	NP_958861	I	V	IV	benign
rs12552401	XP_044196	H	R	HR	possibly damaging
rs12552457	XP_376902	E	K	EK	benign
rs12552812	NP_067091	G	R	GR	benign
rs12553965	XP_088551	R	S	RS	benign
rs12554941	NP_064530	V	M	VM	benign
rs12555636	XP_497071	M	K	MK	benign
rs12556365	XP_291345	P	L	PL	probably damaging
rs12557064	XP_497092	P	R	PR	probably damaging
rs12557898	NP_872312	Q	R	QR	benign
rs12559947	XP_372262	P	L	PL	probably damaging
rs12561972	NP_000960	G	C	GC	probably damaging
rs12562058	NP_003456	Q	H	QH	benign
rs12562244	NP_000290	L	M	LM	benign
rs12562301	NP_839943	P	S	PS	probably damaging
rs12562699	XP_060303	N	Y	NY	benign
rs12562749	NP_006606	A	V	AV	benign
rs12563933	NP_003167	E	D	ED	benign
rs12564026	NP_000692	S	I	SI	possibly damaging
rs12564040	NP_071372	A	D	AD	benign
rs12564090	NP_003030	S	T	ST	benign
rs12564106	NP_036331	P	L	PL	possibly damaging
rs12564229	NP_006608	L	M	LM	benign
rs12564400	NP_004393	K	R	KR	benign
rs12564512	NP_000855	T	A	TA	benign
rs12564525	XP_208213	R	W	RW	probably damaging
rs12564869	XP_038288	H	L	HL	probably damaging
rs12565078	XP_496394	N	S	NS	benign
rs12565542	NP_996991	D	Y	DY	possibly damaging
rs12565542	NP_004310	D	Y	DY	possibly damaging
rs12565736	NP_757349	S	N	SN	benign
rs12565736	NP_757351	S	N	SN	benign
rs12565918	NP_060288	V	E	VE	possibly damaging
rs12566550	NP_000027	R	C	RC	benign
rs12567021	NP_714914	T	M	TM	benign
rs12567134	NP_000897	P	A	PA	benign
rs12567229	NP_115646	P	H	PH	benign
rs12567377	NP_001399	G	R	GR	probably damaging
rs12568050	XP_060597	N	K	NK	benign
rs12568796	XP_378185	K	E	KE	benign

rs12568823	NP_775179	A	S	AS	benign
rs12568823	NP_963863	A	S	AS	benign
rs12568823	NP_963862	A	S	AS	benign
rs12568823	NP_055652	A	S	AS	benign
rs12569066	NP_115811	S	A	SA	benign
rs12569087	NP_067646	P	L	PL	probably damaging
rs12569699	XP_166103	D	N	DN	possibly damaging
rs12569742	NP_004557	G	S	GS	possibly damaging
rs12570139	NP_116116	L	F	LF	possibly damaging
rs12570964	NP_062565	R	P	RP	probably damaging
rs12571835	NP_004184	G	A	GA	possibly damaging
rs12572012	NP_057279	N	I	NI	benign
rs12572125	XP_291725	E	K	EK	benign
rs12572354	NP_775289	D	V	DV	possibly damaging
rs12572354	NP_775285	D	V	DV	possibly damaging
rs12572354	NP_775287	D	V	DV	possibly damaging
rs12572354	NP_775464	D	V	DV	probably damaging
rs12572354	NP_775283	D	V	DV	probably damaging
rs12572354	NP_055406	D	V	DV	probably damaging
rs12572354	NP_775284	D	V	DV	probably damaging
rs12572589	NP_061172	Q	H	QH	benign
rs12572862	XP_374779	V	L	VL	benign
rs12572897	NP_071896	P	L	PL	benign
rs12574255	NP_059509	A	T	AT	benign
rs12574508	NP_112224	Q	E	QE	benign
rs12574667	NP_996821	T	P	TP	benign
rs12574667	NP_996823	T	P	TP	benign
rs12574667	NP_996822	T	P	TP	possibly damaging
rs12574779	XP_171536	C	G	CG	benign
rs12575508	XP_374860	A	V	AV	benign
rs12575547	NP_002897	L	V	LV	benign
rs12576236	NP_689525	D	A	DA	probably damaging
rs12576296	NP_057226	S	L	SL	benign
rs12576297	XP_166777	V	L	VL	benign
rs12577137	NP_001351	A	G	AG	benign
rs12577167	XP_372357	T	A	TA	benign
rs12577564	NP_060496	H	L	HL	probably damaging
rs12578449	NP_078827	T	P	TP	possibly damaging
rs12578516	NP_005260	L	I	LI	benign
rs12578654	NP_795369	C	Y	CY	possibly damaging
rs12579962	NP_062570	V	G	VG	possibly damaging
rs12579962	NP_982269	V	G	VG	possibly damaging
rs12580068	NP_659419	R	G	RG	probably damaging
rs12580378	XP_029805	R	H	RH	possibly damaging
rs12580544	NP_444505	G	R	GR	probably damaging
rs12580585	XP_290592	D	Y	DY	probably damaging



rs12580717	NP_006645	K	N	KN	benign
rs12580996	NP_060918	V	A	VA	benign
rs12581634	NP_700356	R	M	RM	benign
rs12581808	NP_060742	A	G	AG	benign
rs12581902	XP_058513	N	I	NI	benign
rs12581954	XP_377259	D	A	DA	probably damaging
rs12582172	NP_849148	G	S	GS	possibly damaging
rs12582405	XP_373543	P	T	PT	possibly damaging
rs12582646	NP_002471	C	W	CW	probably damaging
rs12583744	NP_955751	R	K	RK	benign
rs12583744	NP_775876	R	K	RK	benign
rs12584992	NP_612459	K	N	KN	benign
rs12586264	NP_078934	A	P	AP	benign
rs12586711	NP_777638	V	A	VA	benign
rs12587066	XP_029353	L	M	LM	benign
rs12587206	XP_090885	S	R	SR	possibly damaging
rs12587718	XP_375067	R	S	RS	possibly damaging
rs12588835	XP_050278	E	D	ED	benign
rs12589748	NP_055792	A	V	AV	benign
rs12590294	NP_000248	R	G	RG	benign
rs12590446	XP_372508	F	S	FS	benign
rs12590500	NP_878250	V	F	VF	benign
rs12592337	XP_496028	G	E	GE	probably damaging
rs12592416	XP_497472	S	R	SR	benign
rs12592972	XP_496045	M	T	MT	benign
rs12593017	XP_496026	R	Q	RQ	benign
rs12593397	NP_057726	R	H	RH	benign
rs12593418	XP_372548	M	V	MV	benign
rs12593498	XP_496045	V	A	VA	benign
rs12593502	XP_496045	V	A	VA	benign
rs12593817	NP_079441	A	V	AV	benign
rs12593848	NP_009131	A	G	AG	benign
rs12593848	NP_658913	A	G	AG	benign
rs12593848	NP_006729	A	G	AG	benign
rs12594837	XP_031744	R	C	RC	benign
rs12596304	NP_003032	L	M	LM	benign
rs12596670	NP_001044	R	K	RK	benign
rs12596873	NP_001044	T	M	TM	benign
rs12596941	NP_877417	A	V	AV	benign
rs12597040	NP_877417	L	P	LP	benign
rs12597291	NP_079469	R	Q	RQ	benign
rs12597504	NP_079215	S	L	SL	benign
rs12598574	NP_055462	P	L	PL	probably damaging
rs12598966	NP_653201	E	K	EK	benign
rs12599339	XP_377407	T	A	TA	benign
rs12599363	XP_377407	D	V	DV	probably damaging

rs12599623	XP_373688	E	K	EK	benign
rs12599659	XP_370944	R	K	RK	benign
rs12599808	NP_056062	G	D	GD	possibly damaging
rs12600339	NP_000204	D	N	DN	benign
rs12600564	NP_116035	T	I	TI	benign
rs12601015	NP_065812	S	R	SR	benign
rs12601317	XP_371084	T	A	TA	benign
rs12601670	XP_208993	A	E	AE	benign
rs12602205	XP_292627	R	Q	RQ	benign
rs12602520	XP_371036	V	G	VG	benign
rs12602543	NP_115987	L	V	LV	benign
rs12602590	NP_644814	A	T	AT	benign
rs12602772	XP_497558	L	V	LV	benign
rs12602985	NP_775774	G	R	GR	possibly damaging
rs12603476	NP_065804	D	A	DA	probably damaging
rs12603700	NP_683684	G	E	GE	probably damaging
rs12603751	NP_002265	A	V	AV	benign
rs12603751	NP_705694	A	V	AV	benign
rs12603884	NP_003584	P	Q	PQ	possibly damaging
rs12604020	NP_689564	A	V	AV	benign
rs12604202	XP_496268	L	S	LS	possibly damaging
rs12604237	XP_496268	G	S	GS	benign
rs12605457	NP_765975	L	M	LM	benign
rs12605457	NP_765977	L	M	LM	benign
rs12605457	NP_765978	L	M	LM	benign
rs12605457	NP_006153	L	M	LM	benign
rs12606006	NP_114097	D	N	DN	possibly damaging
rs12606220	NP_073751	L	F	LF	benign
rs12607385	NP_659457	R	C	RC	possibly damaging
rs12607773	NP_060725	E	G	EG	benign
rs12607841	NP_005550	A	V	AV	benign
rs12608574	NP_974199	G	A	GA	benign
rs12608777	XP_371146	P	R	PR	probably damaging
rs12608849	NP_115823	L	F	LF	benign
rs12608919	XP_496281	P	L	PL	possibly damaging
rs12608979	NP_612421	A	T	AT	benign
rs12609004	NP_612421	N	K	NK	benign
rs12609039	NP_065863	P	L	PL	probably damaging
rs12609217	XP_064903	D	V	DV	possibly damaging
rs12609268	NP_067040	I	V	IV	benign
rs12609440	NP_699160	A	D	AD	benign
rs12609732	XP_371195	L	P	LP	probably damaging
rs12609976	NP_573441	A	T	AT	benign
rs12610019	NP_071386	T	A	TA	benign
rs12610094	XP_372708	V	A	VA	benign
rs12610254	NP_060685	S	T	ST	benign

rs12610328	NP_037444	A	T	AT	benign
rs12610462	XP_292836	G	E	GE	probably damaging
rs12610577	NP_079405	T	I	TI	benign
rs12610701	NP_597709	E	D	ED	benign
rs12610718	NP_056498	L	M	LM	benign
rs12610859	NP_689567	R	G	RG	possibly damaging
rs12610885	NP_005026	P	S	PS	benign
rs12610911	XP_497618	W	C	WC	benign
rs12611040	NP_975011	P	S	PS	benign
rs12611105	NP_612356	R	W	RW	probably damaging
rs12611254	NP_997278	S	G	SG	benign
rs12611425	NP_975011	N	K	NK	benign
rs12611491	NP_055962	R	G	RG	possibly damaging
rs12612177	XP_372941	S	F	SF	benign
rs12612365	NP_055312	I	V	IV	benign
rs12612793	NP_002372	G	S	GS	possibly damaging
rs12614667	NP_055368	A	D	AD	benign
rs12615112	NP_115917	I	V	IV	benign
rs12615747	XP_065750	T	A	TA	benign
rs12617205	NP_008851	V	I	VI	benign
rs12617638	NP_001623	R	H	RH	probably damaging
rs12618071	NP_115642	S	F	SF	benign
rs12618227	NP_078898	E	Q	EQ	benign
rs12618284	NP_056390	D	N	DN	benign
rs12618388	NP_084656	S	I	SI	possibly damaging
rs12618388	NP_084655	S	I	SI	possibly damaging
rs12618388	NP_084657	S	I	SI	probably damaging
rs12618388	NP_005261	S	I	SI	probably damaging
rs12619169	NP_003846	G	R	GR	benign
rs12619995	NP_056080	S	P	SP	benign
rs12620556	NP_620158	M	V	MV	benign
rs12620825	NP_852111	T	A	TA	benign
rs12620825	NP_000136	T	A	TA	benign
rs12621643	NP_542402	E	D	ED	benign
rs12623297	XP_373979	Q	R	QR	benign
rs12623569	NP_078808	T	K	TK	possibly damaging
rs12623642	NP_659475	V	F	VF	possibly damaging
rs12624954	NP_620713	G	R	GR	possibly damaging
rs12624995	NP_542970	V	G	VG	possibly damaging
rs12625565	XP_372866	Q	H	QH	possibly damaging
rs12627333	XP_371409	T	P	TP	possibly damaging
rs12627708	NP_149363	S	R	SR	possibly damaging
rs12627910	NP_006062	R	I	RI	possibly damaging
rs12628208	NP_055909	I	M	IM	benign
rs12628507	NP_114096	V	G	VG	possibly damaging
rs12629133	XP_371617	A	T	AT	benign

rs12629332	XP_046264	Q	H	QH	possibly damaging
rs12629765	XP_372992	Q	H	QH	benign
rs12629872	NP_001618	L	M	LM	benign
rs12629962	NP_003732	L	I	LI	benign
rs12630596	NP_056281	P	L	PL	probably damaging
rs12630957	NP_002664	P	H	PH	probably damaging
rs12631343	NP_004078	L	V	LV	benign
rs12632177	NP_055893	T	M	TM	benign
rs12632456	NP_001448	M	V	MV	benign
rs12632942	NP_006505	L	P	LP	benign
rs12634179	NP_473451	P	A	PA	benign
rs12636502	NP_055951	L	M	LM	benign
rs12637267	NP_997190	P	S	PS	possibly damaging
rs12637996	NP_060501	D	N	DN	benign
rs12638212	XP_036988	T	I	TI	possibly damaging
rs12638601	NP_054858	Y	H	YH	benign
rs12638625	NP_078963	A	G	AG	benign
rs12638839	NP_002206	I	M	IM	benign
rs12639244	NP_057257	A	V	AV	benign
rs12639568	NP_659474	G	R	GR	benign
rs12640082	NP_689892	T	P	TP	possibly damaging
rs12641721	NP_660306	A	G	AG	benign
rs12641972	NP_777560	K	N	KN	benign
rs12642508	NP_775098	Q	R	QR	benign
rs12642536	NP_620775	A	T	AT	benign
rs12643294	XP_371715	G	R	GR	possibly damaging
rs12643783	XP_497977	A	T	AT	benign
rs12644923	XP_042661	Q	H	QH	benign
rs12645298	XP_050219	G	A	GA	benign
rs12645577	NP_060548	R	H	RH	probably damaging
rs12645668	XP_496705	E	K	EK	possibly damaging
rs12646270	NP_031377	G	D	GD	possibly damaging
rs12647859	NP_997374	G	S	GS	benign
rs12648093	NP_009014	C	R	CR	probably damaging
rs12648735	XP_496692	F	L	FL	benign
rs12650153	NP_078858	S	N	SN	benign
rs12650626	NP_116586	G	E	GE	possibly damaging
rs12651301	NP_694540	P	L	PL	probably damaging
rs12651770	NP_065122	G	R	GR	probably damaging
rs12651836	NP_004376	G	V	GV	possibly damaging
rs12653130	NP_001438	T	S	TS	benign
rs12653648	NP_036475	S	N	SN	benign
rs12653648	NP_892022	S	N	SN	benign
rs12654078	XP_208333	T	I	TI	benign
rs12654463	XP_208333	L	R	LR	benign
rs12654652	XP_373076	I	L	IL	benign

rs12656588	NP_000949	A	G	AG	benign
rs12657663	NP_001736	V	I	VI	benign
rs12659447	XP_371755	R	M	RM	benign
rs12660745	XP_371797	F	S	FS	benign
rs12660881	NP_061914	L	F	LF	benign
rs12661031	XP_371797	F	S	FS	benign
rs12661281	NP_116183	D	V	DV	possibly damaging
rs12661281	NP_079533	D	V	DV	possibly damaging
rs12662753	NP_443136	D	G	DG	possibly damaging
rs12662902	XP_371835	V	I	VI	benign
rs12663265	NP_004091	L	M	LM	benign
rs12663265	NP_742103	L	M	LM	benign
rs12663315	NP_001362	F	C	FC	possibly damaging
rs12663349	NP_066406	V	G	VG	probably damaging
rs12663405	NP_056160	A	T	AT	benign
rs12663573	NP_003958	E	K	EK	benign
rs12664076	NP_002935	D	H	DH	possibly damaging
rs12665154	NP_072047	A	V	AV	benign
rs12665154	NP_542131	A	V	AV	benign
rs12666503	NP_085047	S	P	SP	benign
rs12666875	NP_000080	P	H	PH	probably damaging
rs12666989	XP_380026	L	V	LV	benign
rs12668484	XP_376720	A	T	AT	benign
rs12669450	NP_006519	R	Q	RQ	benign
rs12669721	XP_059830	T	P	TP	possibly damaging
rs12671170	NP_877439	E	A	EA	benign
rs12671708	XP_376567	A	G	AG	benign
rs12671839	XP_376720	I	T	IT	benign
rs12672119	NP_115598	A	V	AV	benign
rs12672139	XP_054313	D	N	DN	benign
rs12672205	NP_036401	M	V	MV	benign
rs12673074	XP_376631	R	G	RG	possibly damaging
rs12674022	NP_733751	N	T	NT	benign
rs12674488	NP_078872	T	N	TN	possibly damaging
rs12675375	NP_060881	G	D	GD	benign
rs12675375	NP_005135	G	D	GD	possibly damaging
rs12675537	NP_665697	S	F	SF	benign
rs12675800	NP_079146	H	P	HP	probably damaging
rs12676664	NP_958786	T	S	TS	benign
rs12676664	NP_958785	T	S	TS	benign
rs12676664	NP_958784	T	S	TS	benign
rs12676664	NP_958783	T	S	TS	benign
rs12676664	NP_958782	T	S	TS	benign
rs12676664	NP_958781	T	S	TS	benign
rs12676664	NP_958780	T	S	TS	benign
rs12676664	NP_000436	T	S	TS	benign

rs12677973	NP_038460	Q	H	QH	benign
rs12678588	NP_002681	R	Q	RQ	benign
rs12678871	NP_056069	S	I	SI	possibly damaging
rs12679538	NP_005135	L	M	LM	benign
rs12679538	NP_060881	L	M	LM	benign
rs12679914	NP_003146	L	M	LM	benign
rs12680645	NP_003037	V	M	VM	benign
rs12681991	NP_473369	L	P	LP	probably damaging
rs12682945	NP_113620	L	P	LP	benign
rs12683102	XP_034640	N	S	NS	possibly damaging
rs12684476	NP_056652	G	S	GS	possibly damaging
rs12684476	NP_056653	G	S	GS	possibly damaging
rs12684476	NP_004099	G	S	GS	possibly damaging
rs12684768	NP_067632	V	E	VE	benign
rs12684910	NP_115669	S	N	SN	benign
rs12685217	NP_061819	A	S	AS	benign
rs12685968	NP_000599	G	R	GR	probably damaging
rs12686150	NP_060046	Q	H	QH	possibly damaging
rs12686298	NP_666023	L	V	LV	benign
rs12686794	XP_039698	E	Q	EQ	benign
rs12688326	NP_060318	G	R	GR	benign
rs12688415	NP_660277	R	H	RH	possibly damaging
rs12688600	NP_619648	G	C	GC	benign
rs12689461	NP_008917	L	M	LM	benign
rs12689863	XP_050478	S	L	SL	benign
rs12689910	NP_036212	M	T	MT	possibly damaging
rs12689920	NP_872114	P	L	PL	probably damaging
rs12689931	NP_003150	E	K	EK	benign
rs12690435	NP_002107	F	I	FI	probably damaging
rs12691089	NP_001637	G	D	GD	benign
rs12692060	XP_496601	I	T	IT	benign
rs12692061	XP_496601	I	M	IM	benign
rs12692566	NP_002340	N	K	NK	possibly damaging
rs12695473	XP_114301	G	S	GS	benign
rs12697943	NP_005505	R	L	RL	benign
rs12698061	XP_373223	T	K	TK	benign
rs12701034	NP_115598	T	M	TM	benign
rs12703712	XP_498243	K	E	KE	benign
rs12703713	XP_498243	R	K	RK	benign
rs12703714	XP_498243	V	L	VL	benign
rs12708402	NP_057726	V	I	VI	benign
rs12708965	NP_000330	R	C	RC	probably damaging
rs12709426	NP_000780	D	G	DG	possibly damaging
rs12709442	NP_690044	T	M	TM	possibly damaging
rs12709442	NP_000780	T	M	TM	possibly damaging
rs12709442	NP_690043	T	M	TM	possibly damaging

rs12711521	NP_006601	D	Y	DY	probably damaging
rs12711538	NP_084656	N	D	ND	benign
rs12711538	NP_084655	N	D	ND	possibly damaging
rs12713843	NP_000375	R	H	RH	benign
rs12713844	NP_000375	D	H	DH	possibly damaging
rs12714097	NP_000375	P	L	PL	probably damaging
rs12714176	NP_057706	P	S	PS	benign
rs12714176	NP_663619	P	S	PS	probably damaging
rs12714192	NP_000375	T	N	TN	benign
rs12714214	NP_000375	P	L	PL	probably damaging
rs12714225	NP_000375	I	T	IT	benign
rs12715125	NP_005433	A	G	AG	benign
rs12717411	NP_057434	S	T	ST	benign
rs12717411	NP_065972	S	T	ST	benign
rs12717411	NP_891989	S	T	ST	benign
rs12717411	NP_891990	S	T	ST	benign
rs12717411	NP_891991	S	T	ST	benign
rs12718341	NP_005299	R	P	RP	possibly damaging
rs12719734	NP_859523	V	M	VM	benign
rs12719734	NP_859524	V	M	VM	benign
rs12719734	NP_060618	V	M	VM	benign
rs12719860	NP_872400	D	A	DA	benign
rs12720060	NP_002182	P	A	PA	probably damaging
rs12720061	NP_002182	G	R	GR	probably damaging
rs12720062	NP_002182	A	T	AT	benign
rs12720065	NP_000006	L	V	LV	benign
rs12720160	NP_000106	P	T	PT	benign
rs12720160	NP_003982	P	T	PT	possibly damaging
rs12720263	NP_003322	R	H	RH	benign
rs12720343	NP_003322	R	H	RH	benign
rs12720356	NP_003322	I	S	IS	possibly damaging
rs12720386	NP_000788	D	E	DE	benign
rs12720441	NP_742053	R	W	RW	probably damaging
rs12720441	NP_742054	R	W	RW	probably damaging
rs12720441	NP_000229	R	W	RW	probably damaging
rs12720442	NP_002225	A	T	AT	benign
rs12720445	NP_002225	R	K	RK	benign
rs12720449	NP_000209	P	R	PR	benign
rs12720449	NP_861462	P	R	PR	possibly damaging
rs12720449	NP_861463	P	R	PR	possibly damaging
rs12720451	NP_932173	L	F	LF	benign
rs12720451	NP_000326	L	F	LF	benign
rs12720452	NP_000326	G	E	GE	benign
rs12720452	NP_932173	G	E	GE	possibly damaging
rs12720456	NP_932173	F	S	FS	possibly damaging
rs12720456	NP_000326	F	S	FS	probably damaging

rs12720457	NP_861462	K	N	KN	benign
rs12720457	NP_861463	K	N	KN	benign
rs12720457	NP_000209	K	N	KN	benign
rs12720458	NP_861462	K	R	KR	benign
rs12720458	NP_861463	K	R	KR	benign
rs12720458	NP_000209	K	R	KR	benign
rs12720459	NP_861462	A	V	AV	benign
rs12720459	NP_861463	A	V	AV	benign
rs12720459	NP_000209	A	V	AV	benign
rs12720471	NP_724781	Q	K	QK	benign
rs12720471	NP_758519	Q	K	QK	benign
rs12720471	NP_000751	Q	K	QK	benign
rs12720474	NP_000667	A	V	AV	benign
rs12720588	NP_077734	V	I	VI	benign
rs12720742	NP_690044	T	M	TM	possibly damaging
rs12720742	NP_000780	T	M	TM	possibly damaging
rs12720742	NP_690043	T	M	TM	possibly damaging
rs12720745	NP_000780	R	Q	RQ	benign
rs12720745	NP_690043	R	Q	RQ	benign
rs12720746	NP_000780	V	A	VA	benign
rs12720754	NP_000780	A	T	AT	benign
rs12720848	NP_000375	H	N	HN	possibly damaging
rs12720854	NP_000375	S	G	SG	benign
rs12720855	NP_000375	S	P	SP	possibly damaging
rs12721225	NP_114438	A	S	AS	benign
rs12721226	NP_114438	A	T	AT	benign
rs12721427	NP_149162	V	I	VI	benign
rs12721431	NP_003830	G	S	GS	benign
rs12721445	NP_143026	T	A	TA	benign
rs12721461	NP_066268	V	A	VA	probably damaging
rs12721461	NP_620073	V	A	VA	probably damaging
rs12721471	NP_037483	I	V	IV	benign
rs12721473	NP_066939	P	L	PL	probably damaging
rs12721477	NP_066939	A	T	AT	benign
rs12721497	NP_006632	M	V	MV	benign
rs12721497	NP_112477	M	V	MV	benign
rs12721498	NP_006632	I	V	IV	benign
rs12721498	NP_112477	I	V	IV	benign
rs12721504	NP_003870	D	V	DV	probably damaging
rs12721512	NP_757349	A	V	AV	benign
rs12721512	NP_757350	A	V	AV	benign
rs12721512	NP_757351	A	V	AV	benign
rs12721516	NP_757349	S	F	SF	benign
rs12721516	NP_757350	S	F	SF	benign
rs12721516	NP_757351	S	F	SF	benign
rs12721523	NP_031379	F	L	FL	probably damaging



rs12721527	NP_031379	L	P	LP	benign
rs12721528	NP_031379	F	L	FL	probably damaging
rs12721529	NP_031379	Y	H	YH	possibly damaging
rs12721535	NP_002061	R	C	RC	probably damaging
rs12721572	NP_068810	M	V	MV	benign
rs12721594	NP_510867	R	Q	RQ	benign
rs12721607	NP_148934	G	R	GR	probably damaging
rs12721607	NP_003880	G	R	GR	probably damaging
rs12721607	NP_071285	G	R	GR	probably damaging
rs12721608	NP_003880	R	Q	RQ	benign
rs12721608	NP_071285	R	Q	RQ	benign
rs12721608	NP_148934	R	Q	RQ	possibly damaging
rs12721613	NP_148934	P	S	PS	possibly damaging
rs12721613	NP_003880	P	S	PS	probably damaging
rs12721613	NP_071285	P	S	PS	probably damaging
rs12721627	NP_059488	T	S	TS	possibly damaging
rs12721629	NP_059488	L	F	LF	possibly damaging
rs12721634	NP_059488	L	P	LP	probably damaging
rs12721643	NP_004818	I	L	IL	benign
rs12721655	NP_000758	K	E	KE	possibly damaging
rs12721658	NP_002107	V	I	VI	benign
rs12721659	NP_002107	A	P	AP	benign
rs12721661	NP_002107	A	S	AS	benign
rs12721662	NP_002107	A	V	AV	benign
rs12721663	NP_002107	W	R	WR	possibly damaging
rs12721665	NP_002107	H	Q	HQ	benign
rs12721666	NP_002107	R	S	RS	benign
rs12721667	NP_002107	Y	C	YC	probably damaging
rs12721668	NP_002107	F	I	FI	benign
rs12721669	NP_002107	V	M	VM	benign
rs12721670	NP_002107	R	P	RP	probably damaging
rs12721671	NP_002107	G	E	GE	benign
rs12721673	NP_002107	E	K	EK	benign
rs12721674	NP_002107	A	S	AS	benign
rs12721676	NP_002107	D	N	DN	benign
rs12721677	NP_002107	F	L	FL	probably damaging
rs12721678	NP_002107	R	Q	RQ	benign
rs12721679	NP_002107	A	G	AG	possibly damaging
rs12721680	NP_002107	Q	R	QR	benign
rs12721681	NP_002107	P	L	PL	probably damaging
rs12721684	NP_002107	I	M	IM	benign
rs12721685	NP_002107	Q	R	QR	benign
rs12721686	NP_002107	P	A	PA	probably damaging
rs12721688	NP_002107	N	H	NH	benign
rs12721689	NP_002107	K	R	KR	possibly damaging
rs12721690	NP_002107	A	G	AG	benign

rs12721692	NP_002107	D	H	DH	benign
rs12721695	NP_002107	G	A	GA	benign
rs12721697	NP_002107	Q	E	QE	benign
rs12721698	NP_002107	Q	H	QH	benign
rs12721699	NP_002107	S	T	ST	possibly damaging
rs12721700	NP_002107	I	V	IV	benign
rs12721701	NP_002107	Y	H	YH	benign
rs12721706	NP_002107	D	H	DH	benign
rs12721709	NP_002107	R	H	RH	probably damaging
rs12721711	NP_002107	F	L	FL	benign
rs12721713	NP_002107	R	C	RC	probably damaging
rs12721714	NP_002107	R	H	RH	benign
rs12721716	NP_002107	R	G	RG	probably damaging
rs12721718	NP_002107	Q	R	QR	possibly damaging
rs12721719	NP_002107	D	A	DA	probably damaging
rs12721722	NP_002107	D	Y	DY	probably damaging
rs12721723	NP_002107	A	S	AS	benign
rs12721724	NP_002107	E	V	EV	probably damaging
rs12721726	NP_002107	R	S	RS	benign
rs12721730	NP_002107	M	R	MR	benign
rs12721732	NP_002107	Q	P	QP	benign
rs12721734	NP_002107	K	R	KR	benign
rs12721736	NP_002107	H	N	HN	benign
rs12721737	NP_002107	A	E	AE	possibly damaging
rs12721738	NP_002107	D	H	DH	benign
rs12721739	NP_002107	G	A	GA	possibly damaging
rs12721742	NP_002107	V	L	VL	benign
rs12721743	NP_002107	Y	H	YH	benign
rs12721744	NP_002107	G	R	GR	probably damaging
rs12721745	NP_002107	E	K	EK	benign
rs12721746	NP_002107	T	A	TA	benign
rs12721751	NP_002107	K	R	KR	benign
rs12721758	NP_002107	T	I	TI	benign
rs12721760	NP_002107	A	E	AE	probably damaging
rs12721761	NP_002107	A	V	AV	benign
rs12721764	NP_002107	K	E	KE	benign
rs12721765	NP_002107	I	V	IV	benign
rs12721766	NP_002107	P	H	PH	benign
rs12721768	NP_002107	I	L	IL	benign
rs12721769	NP_002107	G	A	GA	benign
rs12721770	NP_002107	R	K	RK	benign
rs12721771	NP_005505	A	E	AE	benign
rs12721772	NP_005505	S	F	SF	benign
rs12721773	NP_005505	Y	H	YH	benign
rs12721776	NP_005505	G	V	GV	benign
rs12721778	NP_005505	P	L	PL	probably damaging

rs12721779	NP_005505	R	P	RP	probably damaging
rs12721780	NP_005505	V	A	VA	benign
rs12721781	NP_005505	F	L	FL	probably damaging
rs12721782	NP_005505	D	N	DN	probably damaging
rs12721783	NP_005505	S	R	SR	benign
rs12721784	NP_005505	P	Q	PQ	benign
rs12721786	NP_005505	E	A	EA	benign
rs12721787	NP_005505	E	D	ED	benign
rs12721788	NP_005505	P	T	PT	probably damaging
rs12721789	NP_005505	R	P	RP	probably damaging
rs12721790	NP_005505	I	V	IV	benign
rs12721791	NP_005505	I	M	IM	benign
rs12721792	NP_005505	G	R	GR	benign
rs12721793	NP_005505	P	R	PR	probably damaging
rs12721796	NP_005505	E	A	EA	benign
rs12721798	NP_005505	Y	H	YH	benign
rs12721799	NP_005505	Y	F	YF	possibly damaging
rs12721801	NP_005505	D	E	DE	benign
rs12721802	NP_005505	R	G	RG	benign
rs12721803	NP_005505	R	P	RP	possibly damaging
rs12721807	NP_005505	T	I	TI	probably damaging
rs12721815	NP_005505	A	V	AV	benign
rs12721816	NP_005505	Q	R	QR	possibly damaging
rs12721818	NP_005505	D	G	DG	benign
rs12721820	NP_005505	E	V	EV	benign
rs12721822	NP_005505	G	A	GA	possibly damaging
rs12721823	NP_005505	Y	H	YH	possibly damaging
rs12721827	NP_005505	T	I	TI	benign
rs12721829	NP_005505	L	F	LF	benign
rs12721830	NP_005505	L	R	LR	probably damaging
rs12721832	NP_005505	Q	H	QH	probably damaging
rs12721833	NP_005505	S	G	SG	benign
rs12721834	NP_005505	M	T	MT	probably damaging
rs12721835	NP_005505	Y	F	YF	benign
rs12721837	NP_005505	R	L	RL	probably damaging
rs12721839	NP_005505	L	F	LF	benign
rs12721840	NP_005505	R	P	RP	probably damaging
rs12721843	NP_005505	D	E	DE	benign
rs12721844	NP_005505	Q	R	QR	possibly damaging
rs12721845	NP_005505	Y	C	YC	benign
rs12721846	NP_005505	G	S	GS	benign
rs12721847	NP_005505	D	N	DN	possibly damaging
rs12721848	NP_005505	A	T	AT	benign
rs12721849	NP_005505	N	K	NK	benign
rs12721852	NP_005505	D	N	DN	benign
rs12721853	NP_005505	D	E	DE	possibly damaging

rs12721857	NP_005505	T	S	TS	benign
rs12721858	NP_005505	T	I	TI	probably damaging
rs12721860	NP_005505	Q	R	QR	possibly damaging
rs12721861	NP_005505	W	L	WL	benign
rs12721862	NP_005505	R	L	RL	benign
rs12721863	NP_005505	E	Q	EQ	benign
rs12721864	NP_005505	E	D	ED	benign
rs12721865	NP_005505	R	W	RW	probably damaging
rs12721867	NP_005505	A	V	AV	benign
rs12721869	NP_005505	Y	C	YC	benign
rs12721870	NP_005505	G	D	GD	benign
rs12721871	NP_005505	V	A	VA	benign
rs12721872	NP_005505	E	D	ED	benign
rs12721873	NP_005505	W	G	WG	possibly damaging
rs12721875	NP_005505	A	S	AS	benign
rs12721876	NP_005505	A	G	AG	benign
rs12721879	NP_005505	R	G	RG	benign
rs12721880	NP_005505	A	T	AT	benign
rs12721882	NP_005505	P	L	PL	benign
rs12721883	NP_005505	E	Q	EQ	benign
rs12721889	NP_005505	K	E	KE	benign
rs12721890	NP_005505	L	F	LF	benign
rs12721891	NP_005505	L	R	LR	possibly damaging
rs12721892	NP_005505	E	K	EK	benign
rs12721896	NP_005505	V	I	VI	benign
rs12721897	NP_005505	V	A	VA	benign
rs12721900	NP_005505	V	A	VA	benign
rs12721904	NP_005505	G	A	GA	benign
rs12721909	NP_005505	C	W	CW	probably damaging
rs12721910	NP_005505	S	R	SR	benign
rs12721911	NP_005505	S	T	ST	possibly damaging
rs12721912	NP_005505	S	R	SR	possibly damaging
rs12721913	NP_005505	D	Y	DY	benign
rs12721914	NP_005505	D	A	DA	probably damaging
rs12721915	NP_005505	D	E	DE	benign
rs12721916	NP_005505	S	C	SC	possibly damaging
rs12721917	NP_005505	S	T	ST	benign
rs12722010	NP_291032	E	D	ED	possibly damaging
rs12722011	NP_291032	A	P	AP	benign
rs12722013	NP_002112	F	V	FV	benign
rs12722014	NP_002112	R	L	RL	benign
rs12722015	NP_002112	A	P	AP	benign
rs12722016	NP_002112	Y	D	YD	probably damaging
rs12722018	NP_002112	E	Q	EQ	benign
rs12722021	NP_002112	G	W	GW	probably damaging
rs12722023	NP_002112	E	V	EV	probably damaging

rs12722024	NP_002112	D	H	DH	possibly damaging
rs12722025	NP_002112	I	N	IN	possibly damaging
rs12722027	NP_002112	K	R	KR	benign
rs12722028	NP_002112	R	W	RW	benign
rs12722030	NP_002112	V	L	VL	benign
rs12722032	NP_002112	P	L	PL	benign
rs12722035	NP_002112	R	H	RH	benign
rs12722039	NP_002113	V	M	VM	benign
rs12722040	NP_002113	M	T	MT	benign
rs12722042	NP_002113	D	G	DG	benign
rs12722049	NP_002113	P	L	PL	benign
rs12722051	NP_002113	Y	F	YF	benign
rs12722054	NP_002113	R	K	RK	benign
rs12722055	NP_002113	T	A	TA	benign
rs12722057	NP_002113	R	W	RW	probably damaging
rs12722058	NP_002113	R	Q	RQ	benign
rs12722061	NP_002113	E	Q	EQ	possibly damaging
rs12722063	NP_002113	E	D	ED	benign
rs12722065	NP_002113	S	G	SG	benign
rs12722070	NP_002113	F	L	FL	benign
rs12722074	NP_002113	F	L	FL	probably damaging
rs12722087	NP_002113	I	L	IL	benign
rs12722088	NP_002113	N	T	NT	probably damaging
rs12722090	NP_002113	T	I	TI	benign
rs12722094	NP_002113	A	T	AT	benign
rs12722094	NP_064440	A	T	AT	benign
rs12722397	NP_072049	L	S	LS	benign
rs12722398	NP_072049	E	Q	EQ	benign
rs12722399	NP_072049	R	C	RC	benign
rs12722400	NP_072049	Y	H	YH	benign
rs12722401	NP_072049	D	N	DN	benign
rs12722403	NP_072049	R	I	RI	probably damaging
rs12722405	NP_072049	R	S	RS	probably damaging
rs12722406	NP_072049	T	R	TR	benign
rs12722407	NP_072049	V	I	VI	benign
rs12722408	NP_072049	V	G	VG	benign
rs12722409	NP_072049	A	D	AD	benign
rs12722411	NP_072049	S	P	SP	benign
rs12722412	NP_072049	S	Y	SY	benign
rs12722416	NP_072049	G	A	GA	benign
rs12722419	NP_002116	K	E	KE	benign
rs12722420	NP_002116	K	M	KM	possibly damaging
rs12722421	NP_002116	R	C	RC	benign
rs12722422	NP_002116	D	G	DG	possibly damaging
rs12722424	NP_002116	L	V	LV	benign
rs12722426	NP_002116	Y	S	YS	benign

rs12722429	NP_002116	D	H	DH	benign
rs12722430	NP_002116	D	G	DG	benign
rs12722431	NP_002116	D	E	DE	benign
rs12722432	NP_002116	R	G	RG	probably damaging
rs12722433	NP_002116	R	T	RT	benign
rs12722435	NP_002116	A	P	AP	probably damaging
rs12722436	NP_002116	A	V	AV	benign
rs12722437	NP_002116	Y	D	YD	probably damaging
rs12722438	NP_002116	Y	F	YF	benign
rs12722442	NP_002116	V	A	VA	benign
rs12722443	NP_002116	G	V	GV	benign
rs12722445	NP_002116	S	G	SG	benign
rs12722446	NP_002116	T	I	TI	benign
rs12722452	NP_002116	V	F	VF	benign
rs12722459	NP_002116	R	Q	RQ	benign
rs12722467	NP_002116	V	I	VI	benign
rs12722468	NP_005507	L	F	LF	benign
rs12722469	NP_005507	L	P	LP	possibly damaging
rs12722471	NP_005507	G	R	GR	benign
rs12722473	NP_005507	R	G	RG	probably damaging
rs12722474	NP_002118	T	S	TS	benign
rs12722475	NP_002118	Q	R	QR	benign
rs12722477	NP_002118	L	I	LI	benign
rs12722481	NP_002118	F	S	FS	probably damaging
rs12722482	NP_002118	T	M	TM	benign
rs12722712	NP_000408	I	T	IT	probably damaging
rs12722877	NP_001843	L	V	LV	benign
rs12724099	NP_005067	F	L	FL	probably damaging
rs12724162	NP_005798	Q	L	QL	possibly damaging
rs12724163	NP_005798	Q	H	QH	benign
rs12724229	NP_000692	T	P	TP	possibly damaging
rs12724404	NP_036318	L	M	LM	benign
rs12724520	NP_055672	K	T	KT	possibly damaging
rs12724656	NP_055672	N	H	NH	benign
rs12727564	NP_787107	F	L	FL	benign
rs12727569	NP_003893	A	E	AE	possibly damaging
rs12727981	XP_371352	G	C	GC	probably damaging
rs12728354	XP_497676	E	G	EG	possibly damaging
rs12728605	XP_378901	W	R	WR	benign
rs12728688	NP_003829	T	P	TP	benign
rs12729110	NP_002236	V	G	VG	possibly damaging
rs12729157	NP_872628	I	T	IT	possibly damaging
rs12729157	NP_079150	I	T	IT	possibly damaging
rs12729294	XP_375809	G	V	GV	possibly damaging
rs12729317	XP_375809	G	C	GC	benign
rs12729376	XP_086186	A	V	AV	benign

rs12729569	XP_114735	N	D	ND	possibly damaging
rs12730520	XP_496437	Q	H	QH	benign
rs12730560	XP_036299	M	V	MV	benign
rs12730914	XP_375806	L	M	LM	benign
rs12730915	XP_375806	P	H	PH	probably damaging
rs12730965	NP_079504	A	T	AT	benign
rs12731518	NP_065840	A	V	AV	benign
rs12731961	NP_006606	R	W	RW	possibly damaging
rs12731981	NP_005364	V	M	VM	benign
rs12732140	NP_079504	A	E	AE	benign
rs12732168	NP_001985	S	N	SN	benign
rs12733102	NP_036519	R	T	RT	possibly damaging
rs12733224	NP_002284	D	H	DH	possibly damaging
rs12733554	XP_497745	E	K	EK	benign
rs12733746	XP_046581	V	G	VG	probably damaging
rs12734508	XP_057040	Q	R	QR	benign
rs12734875	NP_000769	S	C	SC	benign
rs12735475	XP_497650	Y	C	YC	probably damaging
rs12735494	XP_089281	S	R	SR	possibly damaging
rs12735670	NP_997253	H	R	HR	benign
rs12735723	NP_000300	P	R	PR	probably damaging
rs12735796	NP_036331	Q	L	QL	possibly damaging
rs12736031	NP_004714	S	R	SR	possibly damaging
rs12736964	NP_004689	K	N	KN	benign
rs12736998	XP_371214	P	L	PL	benign
rs12737483	XP_371227	L	F	LF	benign
rs12738021	XP_375684	R	T	RT	benign
rs12738104	NP_940905	C	W	CW	probably damaging
rs12738235	NP_004393	R	K	RK	benign
rs12739756	NP_079355	E	G	EG	possibly damaging
rs12739932	NP_036331	I	T	IT	possibly damaging
rs12740697	NP_004412	Q	R	QR	possibly damaging
rs12741211	NP_036234	P	L	PL	possibly damaging
rs12741265	XP_375726	E	D	ED	benign
rs12741266	XP_375726	E	G	EG	possibly damaging
rs12742038	NP_254275	I	N	IN	probably damaging
rs12742082	NP_940905	K	N	KN	benign
rs12742148	NP_001026	D	N	DN	benign
rs12742169	NP_000060	H	L	HL	benign
rs12742341	NP_071440	E	G	EG	benign
rs12742363	XP_497739	S	P	SP	possibly damaging
rs12742561	NP_787107	L	F	LF	benign
rs12742808	NP_078930	C	R	CR	benign
rs12743012	NP_055467	A	P	AP	benign
rs12743600	NP_003180	G	E	GE	possibly damaging
rs12744282	NP_006675	I	R	IR	possibly damaging

rs12745008	NP_065883	G	S	GS	benign
rs12745228	XP_060305	R	T	RT	probably damaging
rs12745355	NP_057631	E	A	EA	possibly damaging
rs12745355	NP_057260	E	A	EA	possibly damaging
rs12745364	NP_057631	N	D	ND	benign
rs12745364	NP_057260	N	D	ND	benign
rs12746154	NP_056230	G	S	GS	possibly damaging
rs12746359	NP_006550	S	C	SC	benign
rs12746550	NP_002915	M	L	ML	possibly damaging
rs12746607	NP_036331	A	P	AP	benign
rs12746751	NP_004061	P	L	PL	probably damaging
rs12747447	NP_056165	N	S	NS	possibly damaging
rs12748250	NP_000219	M	L	ML	benign
rs12748336	NP_003893	I	K	IK	probably damaging
rs12748509	NP_003893	I	K	IK	probably damaging
rs12748810	NP_002635	V	I	VI	benign
rs12749581	NP_000245	R	Q	RQ	benign
rs12749726	NP_006483	P	A	PA	possibly damaging
rs12750081	XP_048104	T	I	TI	possibly damaging
rs12750174	NP_443198	S	L	SL	possibly damaging
rs12750253	XP_048104	D	E	DE	benign
rs12750323	XP_496406	S	N	SN	benign
rs12750400	NP_058515	S	L	SL	benign
rs12750571	XP_048104	R	C	RC	possibly damaging
rs12750669	XP_496382	A	E	AE	benign
rs12751234	XP_046581	S	C	SC	possibly damaging
rs12751770	NP_077306	L	M	LM	benign
rs12752075	NP_001985	S	R	SR	benign
rs12752091	NP_001985	L	M	LM	benign
rs12752437	NP_060156	P	R	PR	probably damaging
rs12752655	XP_375809	A	V	AV	benign
rs12752800	XP_498755	F	L	FL	benign
rs12753516	NP_003680	E	D	ED	benign
rs12753590	XP_371254	Y	S	YS	probably damaging
rs12753610	NP_060156	G	R	GR	probably damaging
rs12754808	NP_061905	T	S	TS	benign
rs12754818	XP_371262	V	L	VL	benign
rs12755972	NP_061973	M	L	ML	possibly damaging
rs12756115	NP_064714	S	A	SA	benign
rs12756225	XP_046531	A	S	AS	benign
rs12756321	NP_006483	P	A	PA	possibly damaging
rs12756586	XP_048104	H	D	HD	possibly damaging
rs12756767	XP_015717	G	D	GD	probably damaging
rs12757085	NP_036537	S	L	SL	possibly damaging
rs12757100	NP_079355	A	T	AT	benign
rs12757156	NP_067649	D	N	DN	possibly damaging



rs12757239	XP_497739	P	T	PT	possibly damaging
rs12757822	NP_006675	V	I	VI	benign
rs12758250	NP_079355	A	G	AG	benign
rs12758626	XP_497699	R	G	RG	benign
rs12758862	NP_006675	Q	K	QK	benign
rs12759032	NP_055478	V	G	VG	possibly damaging
rs12759923	NP_000769	N	S	NS	possibly damaging
rs12759971	NP_002915	T	I	TI	possibly damaging
rs12760019	XP_497650	P	S	PS	benign
rs12760076	NP_061973	M	K	MK	probably damaging
rs12760148	NP_065385	S	F	SF	possibly damaging
rs12761754	NP_009009	P	L	PL	probably damaging
rs12762604	NP_000689	F	L	FL	benign
rs12762880	NP_065803	E	V	EV	possibly damaging
rs12764004	NP_055568	I	V	IV	benign
rs12764700	XP_374831	L	P	LP	possibly damaging
rs12765045	XP_374831	K	N	KN	benign
rs12765383	XP_374831	P	H	PH	probably damaging
rs12765679	NP_996744	E	K	EK	benign
rs12766451	NP_005461	T	I	TI	benign
rs12766884	NP_443723	G	E	GE	benign
rs12767060	NP_065071	V	L	VL	benign
rs12767074	NP_065071	G	R	GR	probably damaging
rs12767255	NP_036215	L	I	LI	benign
rs12767417	NP_003884	N	T	NT	possibly damaging
rs12767945	NP_998815	V	L	VL	benign
rs12767945	NP_849198	V	L	VL	benign
rs12767957	NP_848930	A	P	AP	benign
rs12768730	NP_444277	E	K	EK	benign
rs12768894	NP_071932	H	R	HR	probably damaging
rs12769293	NP_443723	T	A	TA	benign
rs12769320	NP_998815	K	E	KE	benign
rs12769320	NP_849198	K	E	KE	benign
rs12770335	NP_003892	V	L	VL	benign
rs12772293	NP_057279	V	M	VM	benign
rs12773594	NP_085128	S	T	ST	benign
rs12773807	NP_003963	F	I	FI	possibly damaging
rs12773843	XP_291697	C	Y	CY	probably damaging
rs12774070	NP_542453	L	M	LM	benign
rs12774070	NP_631894	L	M	LM	benign
rs12774988	XP_370585	R	W	RW	possibly damaging
rs12775148	NP_055287	S	P	SP	benign
rs12775149	XP_495824	L	S	LS	benign
rs12777740	NP_002408	R	H	RH	benign
rs12777836	NP_478129	F	S	FS	possibly damaging
rs12779172	NP_005727	R	P	RP	probably damaging

rs12779697	NP_004239	Q	E	QE	benign
rs12780533	NP_003165	K	Q	KQ	benign
rs12780533	NP_068506	K	Q	KQ	benign
rs12780580	NP_057253	A	D	AD	benign
rs12780970	XP_495824	N	K	NK	benign
rs12781044	NP_690875	A	S	AS	benign
rs12781044	NP_997010	A	S	AS	benign
rs12781044	NP_997011	A	S	AS	benign
rs12781044	NP_997008	A	S	AS	benign
rs12781048	NP_149091	H	Q	HQ	benign
rs12781122	NP_079224	K	R	KR	benign
rs12781132	XP_495824	P	S	PS	benign
rs12781609	NP_775843	N	S	NS	benign
rs12782946	NP_060487	R	Q	RQ	benign
rs12782963	NP_057196	A	D	AD	benign
rs12784975	NP_689522	K	R	KR	benign
rs12785832	NP_060954	V	G	VG	possibly damaging
rs12785840	XP_166831	I	T	IT	benign
rs12786101	XP_208522	P	L	PL	probably damaging
rs12786651	NP_005179	L	H	LH	possibly damaging
rs12786746	NP_061928	S	P	SP	benign
rs12786824	XP_497281	G	D	GD	possibly damaging
rs12786957	NP_000042	E	D	ED	benign
rs12786960	NP_000042	H	P	HP	probably damaging
rs12787061	NP_659454	S	T	ST	benign
rs12787255	NP_061928	S	F	SF	benign
rs12787400	XP_290540	F	I	FI	benign
rs12787462	NP_060310	R	Q	RQ	benign
rs12787512	NP_055972	S	C	SC	benign
rs12787525	NP_005160	L	V	LV	benign
rs12788418	NP_000042	V	G	VG	possibly damaging
rs12788427	NP_000042	V	G	VG	possibly damaging
rs12788429	NP_000042	V	G	VG	possibly damaging
rs12788602	NP_061928	T	P	TP	benign
rs12788990	XP_166805	I	V	IV	benign
rs12789224	NP_001413	E	Q	EQ	benign
rs12789224	NP_938195	E	Q	EQ	benign
rs12789251	NP_001413	C	S	CS	benign
rs12789251	NP_938195	C	S	CS	benign
rs12789346	NP_001024	W	G	WG	probably damaging
rs12789379	NP_006810	P	T	PT	probably damaging
rs12789560	NP_001413	D	E	DE	benign
rs12789560	NP_938195	D	E	DE	benign
rs12789595	NP_001413	T	S	TS	benign
rs12789595	NP_938195	T	S	TS	benign
rs12789777	NP_054786	A	P	AP	benign

rs12790100	NP_002222	I	V	IV	benign
rs12790359	XP_166777	L	F	LF	benign
rs12790505	XP_166878	S	P	SP	possibly damaging
rs12790545	NP_066288	E	V	EV	possibly damaging
rs12790613	NP_116262	A	T	AT	benign
rs12790933	NP_060513	V	G	VG	possibly damaging
rs12790963	NP_060513	V	G	VG	possibly damaging
rs12791318	XP_370615	H	R	HR	possibly damaging
rs12791713	XP_497281	V	A	VA	benign
rs12791877	XP_497281	S	P	SP	benign
rs12792033	NP_149126	D	Y	DY	probably damaging
rs12792033	NP_079484	D	Y	DY	probably damaging
rs12792040	NP_620411	R	C	RC	possibly damaging
rs12792184	XP_372443	S	L	SL	benign
rs12792229	NP_002415	S	Y	SY	benign
rs12792700	NP_055159	M	L	ML	benign
rs12792752	NP_149126	I	N	IN	possibly damaging
rs12792752	NP_079484	I	N	IN	possibly damaging
rs12793222	NP_932341	R	Q	RQ	benign
rs12793242	XP_290540	T	P	TP	benign
rs12793348	NP_056183	I	V	IV	benign
rs12793445	NP_570899	Q	H	QH	benign
rs12793516	NP_115604	E	K	EK	benign
rs12793600	NP_665803	Y	C	YC	probably damaging
rs12793957	XP_089863	I	L	IL	benign
rs12794170	XP_372413	E	Q	EQ	benign
rs12794318	NP_055159	M	K	MK	benign
rs12794914	XP_370652	R	K	RK	benign
rs12795414	NP_079059	I	R	IR	possibly damaging
rs12795426	NP_079059	V	A	VA	benign
rs12795991	NP_065079	I	M	IM	benign
rs12796044	XP_166213	R	P	RP	possibly damaging
rs12796489	NP_644802	A	S	AS	benign
rs12796489	NP_001742	A	S	AS	benign
rs12796681	XP_372376	L	M	LM	benign
rs12796828	XP_372376	L	V	LV	benign
rs12796846	XP_372376	L	M	LM	benign
rs12797097	NP_113659	E	G	EG	possibly damaging
rs12797097	NP_848537	E	G	EG	possibly damaging
rs12797161	NP_079059	H	P	HP	probably damaging
rs12797438	NP_056076	P	L	PL	benign
rs12797918	NP_149126	Y	F	YF	benign
rs12797918	NP_079484	Y	F	YF	benign
rs12798330	NP_061901	Y	C	YC	probably damaging
rs12798330	NP_001001483	Y	C	YC	probably damaging
rs12798361	XP_372376	L	Q	LQ	possibly damaging

rs12798701	NP_060496	K	R	KR	benign
rs12798733	NP_057230	V	G	VG	possibly damaging
rs12798852	NP_060496	F	L	FL	possibly damaging
rs12799188	NP_003096	T	I	TI	benign
rs12799308	NP_115604	R	C	RC	probably damaging
rs12800450	NP_653186	G	W	GW	probably damaging
rs12800526	XP_166877	V	G	VG	possibly damaging
rs12800529	XP_166877	F	V	FV	possibly damaging
rs12800541	XP_166877	V	G	VG	possibly damaging
rs12800642	XP_166868	V	L	VL	benign
rs12800722	NP_115604	I	K	IK	probably damaging
rs12800905	XP_290502	Q	R	QR	benign
rs12800965	NP_115604	F	S	FS	probably damaging
rs12800974	NP_009097	T	P	TP	possibly damaging
rs12801000	NP_203754	S	P	SP	benign
rs12801394	NP_001001336	N	D	ND	benign
rs12801394	NP_057313	N	D	ND	benign
rs12801696	XP_170658	A	S	AS	benign
rs12801863	NP_997313	D	G	DG	benign
rs12803046	NP_940876	A	T	AT	benign
rs12803166	XP_084529	S	Y	SY	benign
rs12803695	XP_370652	T	P	TP	possibly damaging
rs12804707	NP_001409	V	G	VG	possibly damaging
rs12805035	NP_003381	A	V	AV	benign
rs12805508	NP_056331	R	S	RS	benign
rs12805520	NP_775827	P	L	PL	probably damaging
rs12805648	NP_940876	V	E	VE	possibly damaging
rs12806196	NP_006810	Q	H	QH	possibly damaging
rs12806437	XP_062285	R	W	RW	benign
rs12806587	NP_005137	R	M	RM	benign
rs12806830	NP_004967	R	W	RW	probably damaging
rs12807051	NP_004769	M	L	ML	benign
rs12807053	NP_004769	D	G	DG	possibly damaging
rs12807084	XP_290540	R	G	RG	benign
rs12807209	XP_290540	N	K	NK	benign
rs12807230	XP_039515	P	L	PL	probably damaging
rs12807537	XP_039515	D	Y	DY	probably damaging
rs12807697	XP_208545	K	N	KN	benign
rs12807719	NP_002416	V	G	VG	benign
rs12808005	NP_001024	H	P	HP	probably damaging
rs12809050	NP_002171	S	I	SI	benign
rs12809294	NP_000919	V	A	VA	benign
rs12809625	NP_077000	C	G	CG	probably damaging
rs12810443	NP_005752	Q	R	QR	benign
rs12810628	NP_000919	T	A	TA	possibly damaging
rs12810661	NP_835463	R	K	RK	benign

rs12810922	NP_004710	C	W	CW	benign
rs12811140	NP_077000	H	L	HL	probably damaging
rs12811227	NP_009141	K	N	KN	possibly damaging
rs12811532	NP_000915	N	I	NI	probably damaging
rs12811704	XP_498535	R	H	RH	benign
rs12811737	NP_000915	T	P	TP	possibly damaging
rs12813507	NP_071758	G	C	GC	possibly damaging
rs12814488	XP_037523	S	L	SL	benign
rs12815188	NP_597705	D	E	DE	benign
rs12815421	NP_443117	G	A	GA	possibly damaging
rs12816297	XP_495908	P	H	PH	benign
rs12816538	NP_597705	D	H	DH	benign
rs12816566	XP_062553	M	K	MK	possibly damaging
rs12816729	NP_597705	E	Q	EQ	benign
rs12817751	XP_495908	G	E	GE	probably damaging
rs12817909	NP_006759	K	I	KI	probably damaging
rs12818131	XP_498535	G	R	GR	possibly damaging
rs12818189	XP_062553	M	L	ML	benign
rs12819160	XP_370686	E	D	ED	benign
rs12819767	NP_006178	R	W	RW	possibly damaging
rs12819884	NP_065685	G	R	GR	possibly damaging
rs12820011	NP_001635	R	K	RK	benign
rs12820175	XP_044836	S	I	SI	benign
rs12820960	NP_002471	K	N	KN	benign
rs12821616	XP_044836	V	G	VG	possibly damaging
rs12823207	NP_060742	V	G	VG	possibly damaging
rs12823260	NP_075422	F	L	FL	benign
rs12823260	NP_005362	F	L	FL	possibly damaging
rs12823343	NP_859075	P	A	PA	possibly damaging
rs12823512	XP_045423	L	R	LR	possibly damaging
rs12823715	XP_045423	L	Q	LQ	possibly damaging
rs12823733	XP_045423	C	S	CS	probably damaging
rs12823883	XP_045423	A	T	AT	benign
rs12824031	XP_045423	L	F	LF	benign
rs12824115	NP_004438	R	K	RK	benign
rs12824121	XP_292093	P	L	PL	benign
rs12824194	XP_045423	T	I	TI	possibly damaging
rs12824208	NP_078836	L	I	LI	benign
rs12824229	XP_045423	L	I	LI	benign
rs12824289	NP_079014	R	K	RK	benign
rs12824916	NP_689803	V	G	VG	possibly damaging
rs12825940	NP_997321	I	N	IN	benign
rs12826853	NP_000280	D	V	DV	benign
rs12826863	NP_061156	A	P	AP	benign
rs12826960	NP_001937	N	K	NK	possibly damaging
rs12827141	NP_003556	P	L	PL	probably damaging

rs12827345	NP_005430	N	T	NT	possibly damaging
rs12828016	NP_061852	I	M	IM	possibly damaging
rs12828446	NP_000280	D	E	DE	benign
rs12828557	NP_001937	N	I	NI	probably damaging
rs12828701	NP_004364	E	D	ED	benign
rs12829975	NP_004438	D	A	DA	probably damaging
rs12831803	NP_076417	I	V	IV	benign
rs12832273	XP_373370	E	D	ED	benign
rs12833263	XP_208080	N	S	NS	benign
rs12833276	NP_004475	E	K	EK	benign
rs12833292	NP_004475	V	L	VL	benign
rs12833456	NP_542785	Y	C	YC	benign
rs12833635	NP_073721	A	T	AT	benign
rs12833635	NP_003942	A	T	AT	benign
rs12833808	NP_077308	Q	H	QH	possibly damaging
rs12834202	NP_076423	F	I	FI	probably damaging
rs12835062	NP_775965	E	Q	EQ	benign
rs12836335	NP_963893	N	T	NT	benign
rs12836817	NP_001551	G	A	GA	benign
rs12836827	NP_001551	A	P	AP	benign
rs12837393	NP_068555	P	S	PS	possibly damaging
rs12837493	XP_293401	I	S	IS	benign
rs12838002	NP_002538	E	D	ED	benign
rs12838505	NP_659489	N	T	NT	benign
rs12838616	NP_005174	F	V	FV	possibly damaging
rs12838667	NP_009199	E	G	EG	possibly damaging
rs12838945	NP_005638	D	V	DV	probably damaging
rs12839101	NP_005174	S	F	SF	benign
rs12839241	NP_995321	S	F	SF	benign
rs12840082	NP_004220	T	P	TP	benign
rs12840135	NP_001551	E	V	EV	possibly damaging
rs12841023	NP_002040	Q	H	QH	benign
rs12841207	NP_056234	R	P	RP	possibly damaging
rs12841259	XP_293380	T	A	TA	benign
rs12841518	NP_003602	E	D	ED	benign
rs12842195	NP_003679	D	Y	DY	probably damaging
rs12842916	NP_997202	A	V	AV	benign
rs12843151	NP_444511	Q	H	QH	possibly damaging
rs12843893	XP_497127	A	T	AT	benign
rs12844831	NP_055742	L	V	LV	benign
rs12844886	NP_055742	K	E	KE	benign
rs12844887	NP_055742	K	I	KI	possibly damaging
rs12845209	NP_055742	E	K	EK	benign
rs12845402	NP_055742	R	K	RK	benign
rs12845530	XP_372226	D	N	DN	benign
rs12845698	NP_851829	M	L	ML	benign

rs12845698	NP_851831	M	L	ML	benign
rs12845698	NP_851828	M	L	ML	possibly damaging
rs12845698	NP_851830	M	L	ML	possibly damaging
rs12845773	NP_000889	T	P	TP	benign
rs12845783	NP_000889	R	S	RS	probably damaging
rs12846637	NP_055742	N	K	NK	benign
rs12846895	NP_073736	V	A	VA	benign
rs12846895	NP_982300	V	A	VA	benign
rs12846895	NP_982301	V	A	VA	benign
rs12846895	NP_982302	V	A	VA	benign
rs12846895	NP_982299	V	A	VA	benign
rs12846900	NP_073736	L	P	LP	possibly damaging
rs12846900	NP_982300	L	P	LP	possibly damaging
rs12846900	NP_982301	L	P	LP	possibly damaging
rs12846900	NP_982302	L	P	LP	possibly damaging
rs12846900	NP_982299	L	P	LP	possibly damaging
rs12847788	NP_004484	V	G	VG	probably damaging
rs12847967	NP_004717	S	Y	SY	possibly damaging
rs12849115	NP_775965	V	E	VE	possibly damaging
rs12849411	NP_006508	I	L	IL	benign
rs12849479	NP_006508	S	N	SN	benign
rs12849510	NP_438112	A	D	AD	benign
rs12849510	NP_036348	A	D	AD	benign
rs12849757	NP_006508	S	N	SN	benign
rs12851517	NP_055104	T	I	TI	benign
rs12851704	NP_005651	N	T	NT	possibly damaging
rs12851705	XP_498374	I	T	IT	benign
rs12851740	XP_291326	V	G	VG	benign
rs12851744	NP_078815	Y	H	YH	possibly damaging
rs12851763	XP_291326	I	T	IT	benign
rs12851871	XP_379699	L	F	LF	benign
rs12851879	XP_498374	D	Y	DY	benign
rs12851945	NP_542199	T	P	TP	benign
rs12851945	NP_075386	T	P	TP	benign
rs12852163	NP_006297	K	N	KN	possibly damaging
rs12852199	NP_036410	S	I	SI	possibly damaging
rs12852225	NP_036410	G	R	GR	probably damaging
rs12852335	XP_291326	C	W	CW	probably damaging
rs12852634	NP_055315	N	T	NT	possibly damaging
rs12853266	NP_002285	G	W	GW	possibly damaging
rs12853266	NP_054701	G	W	GW	probably damaging
rs12853799	XP_291326	I	F	IF	benign
rs12854479	NP_055104	I	S	IS	benign
rs12854580	NP_055104	L	R	LR	benign
rs12854697	XP_373373	T	P	TP	benign
rs12855582	NP_036410	S	R	SR	possibly damaging

rs12855643	XP_373373	A	P	AP	benign
rs12856307	NP_002435	A	D	AD	possibly damaging
rs12857550	NP_004303	S	C	SC	probably damaging
rs12857859	XP_373373	Y	H	YH	benign
rs12858248	NP_005923	R	H	RH	benign
rs12858959	NP_002016	L	M	LM	benign
rs12859906	NP_037403	L	M	LM	benign
rs12859908	NP_037403	A	V	AV	benign
rs12860105	NP_689790	S	F	SF	benign
rs12860222	XP_498387	V	G	VG	possibly damaging
rs12860296	NP_006297	L	V	LV	benign
rs12860599	NP_006297	R	G	RG	possibly damaging
rs12860727	NP_001560	R	G	RG	possibly damaging
rs12862951	XP_377034	R	Q	RQ	benign
rs12863544	XP_377034	R	W	RW	possibly damaging
rs12863734	NP_115605	L	F	LF	benign
rs12863903	NP_064506	T	A	TA	benign
rs12865456	NP_002006	N	T	NT	possibly damaging
rs12865742	XP_495960	S	T	ST	benign
rs12865940	XP_372494	Q	E	QE	benign
rs12865990	XP_497370	T	I	TI	possibly damaging
rs12866274	NP_001667	R	Q	RQ	benign
rs12866960	NP_037370	I	K	IK	possibly damaging
rs12867263	NP_001259	E	D	ED	benign
rs12867400	NP_055387	A	V	AV	benign
rs12868504	NP_055387	E	D	ED	benign
rs12868620	NP_055387	Q	H	QH	benign
rs12868653	NP_055387	Q	H	QH	possibly damaging
rs12868723	NP_006428	H	Q	HQ	possibly damaging
rs12871608	NP_054808	S	P	SP	possibly damaging
rs12872971	NP_005993	T	P	TP	possibly damaging
rs12873221	NP_060296	Q	H	QH	possibly damaging
rs12873478	NP_060296	S	L	SL	benign
rs12874207	XP_166270	P	H	PH	probably damaging
rs12875881	NP_006695	N	S	NS	benign
rs12875900	NP_006695	K	T	KT	possibly damaging
rs12876018	NP_064506	L	M	LM	benign
rs12876270	NP_758961	N	K	NK	possibly damaging
rs12876618	NP_758961	S	F	SF	possibly damaging
rs12877501	NP_001837	G	S	GS	benign
rs12878894	NP_005104	Q	H	QH	possibly damaging
rs12879377	XP_031104	V	M	VM	benign
rs12879447	XP_372527	V	D	VD	possibly damaging
rs12879993	NP_008970	K	N	KN	possibly damaging
rs12880115	NP_008970	T	P	TP	possibly damaging
rs12880583	NP_009041	H	R	HR	possibly damaging



rs12881596	NP_110418	G	A	GA	benign
rs12881616	NP_005154	E	G	EG	probably damaging
rs12881649	NP_004187	C	W	CW	probably damaging
rs12881815	NP_878918	E	K	EK	benign
rs12881869	NP_006566	A	T	AT	benign
rs12881869	NP_942089	A	T	AT	benign
rs12882191	NP_057434	P	Q	PQ	possibly damaging
rs12882191	NP_891989	P	Q	PQ	possibly damaging
rs12882191	NP_891990	P	Q	PQ	possibly damaging
rs12882191	NP_891991	P	Q	PQ	possibly damaging
rs12882191	NP_065972	P	Q	PQ	probably damaging
rs12883454	NP_848701	L	V	LV	possibly damaging
rs12883454	NP_848702	L	V	LV	possibly damaging
rs12883454	NP_002710	L	V	LV	possibly damaging
rs12883454	NP_848703	L	V	LV	possibly damaging
rs12883471	NP_848701	V	G	VG	possibly damaging
rs12883471	NP_848702	V	G	VG	possibly damaging
rs12883471	NP_002710	V	G	VG	probably damaging
rs12883471	NP_848703	V	G	VG	probably damaging
rs12884523	NP_004230	D	A	DA	probably damaging
rs12884638	NP_056371	P	T	PT	possibly damaging
rs12885309	NP_006168	E	D	ED	benign
rs12885558	NP_075049	A	V	AV	benign
rs12885558	NP_612808	A	V	AV	benign
rs12885887	NP_006168	L	P	LP	possibly damaging
rs12885908	NP_037514	D	A	DA	possibly damaging
rs12886014	NP_078772	P	S	PS	probably damaging
rs12886088	NP_009041	R	Q	RQ	benign
rs12887018	NP_055394	F	L	FL	benign
rs12888595	NP_851808	G	C	GC	possibly damaging
rs12888595	NP_851819	G	C	GC	possibly damaging
rs12888595	NP_851825	G	C	GC	possibly damaging
rs12888595	NP_653175	G	C	GC	possibly damaging
rs12889267	XP_370737	K	E	KE	benign
rs12889670	XP_085175	L	F	LF	benign
rs12889688	NP_861535	S	N	SN	benign
rs12890136	NP_075049	Q	H	QH	benign
rs12890136	NP_612808	Q	H	QH	benign
rs12890370	NP_006168	E	A	EA	benign
rs12890730	XP_375105	S	N	SN	benign
rs12890759	NP_002733	I	S	IS	probably damaging
rs12891009	XP_090885	H	Y	HY	probably damaging
rs12891553	XP_063315	I	T	IT	possibly damaging
rs12892121	NP_002733	Y	F	YF	possibly damaging
rs12894400	NP_976054	V	A	VA	benign
rs12894425	NP_976054	W	G	WG	probably damaging

rs12894435	NP_976054	L	H	LH	possibly damaging
rs12895348	NP_079228	A	T	AT	benign
rs12895357	NP_109376	G	R	GR	benign
rs12895357	NP_004984	G	R	GR	benign
rs12896018	NP_003291	Q	R	QR	benign
rs12896018	NP_663777	Q	R	QR	benign
rs12896018	NP_663778	Q	R	QR	benign
rs12896533	XP_497390	F	L	FL	benign
rs12896588	NP_109376	K	Q	KQ	benign
rs12896588	NP_004984	K	Q	KQ	benign
rs12897422	NP_536806	S	F	SF	possibly damaging
rs12898266	XP_496045	L	P	LP	benign
rs12898290	NP_002411	H	Q	HQ	benign
rs12898412	XP_496045	L	P	LP	benign
rs12898412	XP_496034	P	L	PL	benign
rs12899798	NP_000737	W	G	WG	probably damaging
rs12899901	NP_055977	E	V	EV	possibly damaging
rs12900317	XP_372589	D	H	DH	probably damaging
rs12900702	NP_057097	A	G	AG	benign
rs12900729	XP_370867	G	A	GA	benign
rs12900805	NP_940927	G	R	GR	benign
rs12900993	XP_370867	A	V	AV	benign
rs12901012	XP_042833	Q	K	QK	possibly damaging
rs12901193	XP_042833	D	G	DG	possibly damaging
rs12901321	XP_042833	D	E	DE	benign
rs12901426	XP_042833	A	T	AT	benign
rs12901843	XP_370867	K	I	KI	benign
rs12902253	NP_079413	L	V	LV	benign
rs12902977	NP_079516	D	A	DA	possibly damaging
rs12903022	NP_005735	E	D	ED	benign
rs12904585	XP_042833	S	C	SC	benign
rs12905661	NP_877435	Y	H	YH	possibly damaging
rs12905777	NP_877435	E	Q	EQ	benign
rs12906187	XP_372589	D	E	DE	benign
rs12907128	NP_004875	L	V	LV	benign
rs12907196	NP_078781	L	F	LF	benign
rs12907567	NP_060154	V	M	VM	benign
rs12908445	NP_620417	S	N	SN	benign
rs12908846	NP_689810	L	F	LF	benign
rs12909704	XP_370878	R	K	RK	benign
rs12910495	NP_919271	T	I	TI	benign
rs12910758	NP_919271	E	A	EA	benign
rs12910884	NP_919271	V	A	VA	benign
rs12911192	NP_955445	Y	C	YC	benign
rs12911192	NP_955446	Y	C	YC	benign
rs12911192	NP_003972	Y	C	YC	benign

rs12911366	XP_497472	A	E	AE	benign
rs12911457	NP_997205	Y	C	YC	benign
rs12911600	NP_997205	T	S	TS	benign
rs12911738	NP_733468	T	A	TA	benign
rs12911738	NP_653091	T	A	TA	benign
rs12911745	NP_997205	R	C	RC	benign
rs12912620	XP_496092	A	T	AT	benign
rs12912744	NP_689668	G	S	GS	benign
rs12912892	NP_997205	L	P	LP	probably damaging
rs12912898	NP_997205	V	G	VG	probably damaging
rs12912899	NP_009131	D	A	DA	possibly damaging
rs12912899	NP_006729	D	A	DA	possibly damaging
rs12913689	NP_940844	S	C	SC	benign
rs12913767	NP_005698	A	D	AD	benign
rs12913789	XP_370826	P	T	PT	benign
rs12913973	NP_060142	I	V	IV	benign
rs12914008	NP_000741	T	I	TI	benign
rs12914257	NP_056292	K	N	KN	benign
rs12914574	NP_061947	E	K	EK	benign
rs12914632	NP_055150	E	K	EK	benign
rs12914807	NP_055150	E	K	EK	benign
rs12915007	NP_060618	I	V	IV	benign
rs12915033	NP_060663	S	N	SN	benign
rs12915617	XP_370826	E	V	EV	possibly damaging
rs12915981	XP_035527	V	I	VI	benign
rs12916804	NP_653166	A	S	AS	benign
rs12917031	NP_065711	V	E	VE	possibly damaging
rs12917794	XP_497494	C	S	CS	benign
rs12917808	XP_497494	C	F	CF	probably damaging
rs12918374	XP_497494	C	R	CR	possibly damaging
rs12918397	XP_497494	S	P	SP	benign
rs12918952	NP_061030	T	A	TA	benign
rs12918964	NP_000284	R	W	RW	probably damaging
rs12919802	NP_001786	P	L	PL	probably damaging
rs12919857	NP_078795	A	D	AD	benign
rs12919890	NP_078795	P	L	PL	probably damaging
rs12919898	NP_078795	P	L	PL	benign
rs12920740	NP_060676	D	E	DE	benign
rs12921440	NP_689865	V	A	VA	benign
rs12921643	NP_060358	K	T	KT	benign
rs12921797	NP_955399	E	D	ED	benign
rs12921797	NP_003110	E	D	ED	benign
rs12921943	NP_005623	L	F	LF	benign
rs12922324	NP_008816	V	G	VG	possibly damaging
rs12922687	NP_008816	S	L	SL	benign
rs12923155	XP_496142	I	V	IV	benign

rs12923676	NP_775322	E	K	EK	benign
rs12923964	NP_065837	V	M	VM	benign
rs12924551	NP_060009	R	C	RC	probably damaging
rs12925313	NP_060676	D	V	DV	probably damaging
rs12925838	NP_004599	P	S	PS	possibly damaging
rs12925838	NP_542936	P	S	PS	probably damaging
rs12925839	NP_004599	S	F	SF	possibly damaging
rs12925839	NP_542936	S	F	SF	possibly damaging
rs12925936	NP_004599	H	Y	HY	benign
rs12925936	NP_542936	H	Y	HY	benign
rs12925966	NP_071736	L	Q	LQ	benign
rs12926089	NP_001278	V	M	VM	benign
rs12926670	NP_570896	G	D	GD	probably damaging
rs12926670	NP_006741	G	D	GD	probably damaging
rs12926675	NP_570896	G	D	GD	probably damaging
rs12926675	NP_006741	G	D	GD	probably damaging
rs12926687	NP_570896	M	I	MI	probably damaging
rs12926687	NP_006741	M	I	MI	probably damaging
rs12927101	XP_496142	V	A	VA	benign
rs12927146	NP_060009	R	K	RK	benign
rs12927175	NP_060009	A	P	AP	benign
rs12927214	NP_001288	V	A	VA	benign
rs12927338	NP_000287	L	I	LI	benign
rs12928112	NP_002987	P	H	PH	probably damaging
rs12928117	NP_002987	A	D	AD	benign
rs12928508	NP_000878	A	T	AT	benign
rs12928528	NP_963892	H	D	HD	benign
rs12928528	NP_958802	H	D	HD	probably damaging
rs12928616	NP_005227	S	F	SF	possibly damaging
rs12928650	NP_005227	S	F	SF	possibly damaging
rs12929250	NP_689550	P	S	PS	possibly damaging
rs12929546	NP_060009	I	V	IV	benign
rs12929925	NP_003214	S	F	SF	benign
rs12929933	NP_003214	P	A	PA	possibly damaging
rs12931009	NP_003214	A	T	AT	benign
rs12931217	NP_877417	T	A	TA	benign
rs12931227	NP_877417	M	V	MV	benign
rs12931472	NP_001162	V	A	VA	benign
rs12931481	XP_290684	S	G	SG	benign
rs12931536	NP_005322	L	M	LM	probably damaging
rs12932087	NP_060358	R	K	RK	benign
rs12932227	NP_079410	K	R	KR	benign
rs12932917	NP_005227	C	G	CG	probably damaging
rs12933084	NP_067020	K	R	KR	benign
rs12933442	NP_057109	W	G	WG	probably damaging
rs12933806	NP_877417	V	I	VI	benign

rs12933808	NP_207837	R	Q	RQ	benign
rs12934922	NP_059125	R	S	RS	benign
rs12934924	XP_497494	R	G	RG	possibly damaging
rs12934925	XP_497494	P	L	PL	probably damaging
rs12935069	NP_149989	W	R	WR	probably damaging
rs12935394	NP_620685	A	S	AS	benign
rs12935394	NP_955387	A	S	AS	benign
rs12935435	NP_005322	A	T	AT	probably damaging
rs12935572	XP_497494	H	Q	HQ	benign
rs12936033	NP_005043	F	L	FL	possibly damaging
rs12936785	XP_375443	D	E	DE	benign
rs12937241	NP_068831	M	L	ML	benign
rs12937447	NP_060427	A	G	AG	benign
rs12937495	NP_002607	V	I	VI	benign
rs12937519	NP_004129	A	V	AV	benign
rs12937557	NP_073596	R	H	RH	possibly damaging
rs12938245	NP_058519	H	Y	HY	possibly damaging
rs12939811	NP_002135	Q	H	QH	possibly damaging
rs12939997	NP_036505	M	V	MV	possibly damaging
rs12941185	NP_938191	V	F	VF	benign
rs12941185	NP_938406	V	F	VF	benign
rs12941185	NP_061496	V	F	VF	benign
rs12941185	NP_938190	V	F	VF	possibly damaging
rs12941185	NP_938192	V	F	VF	possibly damaging
rs12941185	NP_938193	V	F	VF	possibly damaging
rs12941185	NP_938194	V	F	VF	possibly damaging
rs12941185	NP_938196	V	F	VF	possibly damaging
rs12941185	NP_938197	V	F	VF	possibly damaging
rs12941185	NP_938198	V	F	VF	possibly damaging
rs12941185	NP_938199	V	F	VF	possibly damaging
rs12941185	NP_938200	V	F	VF	possibly damaging
rs12941185	NP_938201	V	F	VF	possibly damaging
rs12941185	NP_938202	V	F	VF	possibly damaging
rs12941197	NP_002461	R	C	RC	probably damaging
rs12941376	NP_000277	L	I	LI	benign
rs12941595	XP_290737	Q	H	QH	benign
rs12941739	NP_067036	E	A	EA	possibly damaging
rs12942334	XP_375387	P	T	PT	possibly damaging
rs12942581	XP_375387	P	L	PL	probably damaging
rs12942684	NP_006302	D	A	DA	probably damaging
rs12943507	NP_055410	F	L	FL	benign
rs12943824	NP_114163	C	W	CW	possibly damaging
rs12943899	NP_068370	L	I	LI	benign
rs12944088	XP_290768	H	R	HR	probably damaging
rs12944151	NP_002728	Q	H	QH	benign
rs12944167	NP_473363	P	T	PT	benign

rs12944167	NP_004278	P	T	PT	benign
rs12944187	NP_056034	A	D	AD	possibly damaging
rs12944305	NP_061886	L	F	LF	benign
rs12944385	XP_290768	K	E	KE	benign
rs12944815	NP_066271	D	N	DN	benign
rs12944815	NP_072170	D	N	DN	benign
rs12945245	NP_009178	T	S	TS	benign
rs12945245	NP_542117	T	S	TS	benign
rs12945569	NP_055410	E	K	EK	benign
rs12945784	NP_061889	C	Y	CY	benign
rs12946178	NP_004095	E	K	EK	benign
rs12946189	NP_060512	S	P	SP	benign
rs12946486	NP_009230	K	Q	KQ	benign
rs12946486	NP_009231	K	Q	KQ	benign
rs12946486	NP_009232	K	Q	KQ	benign
rs12946486	NP_009233	K	Q	KQ	benign
rs12946486	NP_009228	K	Q	KQ	benign
rs12946793	NP_061889	W	R	WR	probably damaging
rs12946860	NP_055410	Y	N	YN	probably damaging
rs12946879	NP_005164	E	D	ED	possibly damaging
rs12946879	NP_777613	E	D	ED	possibly damaging
rs12946879	NP_777614	E	D	ED	possibly damaging
rs12946879	NP_777616	E	D	ED	possibly damaging
rs12946879	NP_777617	E	D	ED	possibly damaging
rs12946879	NP_777618	E	D	ED	possibly damaging
rs12946879	NP_777615	E	D	ED	possibly damaging
rs12947131	NP_115517	E	K	EK	benign
rs12947398	NP_114432	S	Y	SY	benign
rs12947790	NP_000325	V	G	VG	probably damaging
rs12947820	NP_775749	T	P	TP	benign
rs12947985	XP_064265	V	L	VL	benign
rs12948207	NP_788276	L	I	LI	benign
rs12948870	NP_005524	Q	E	QE	benign
rs12948912	NP_775749	A	V	AV	benign
rs12949256	XP_371057	A	T	AT	benign
rs12949680	NP_060003	A	T	AT	benign
rs12950108	XP_375387	K	E	KE	benign
rs12950401	NP_115517	H	L	HL	probably damaging
rs12950413	NP_115517	E	D	ED	benign
rs12950537	NP_002135	Y	H	YH	possibly damaging
rs12951331	NP_057066	A	S	AS	benign
rs12951399	NP_853512	S	L	SL	possibly damaging
rs12951415	NP_115517	K	T	KT	possibly damaging
rs12951436	NP_940904	G	R	GR	probably damaging
rs12951650	NP_001662	Q	H	QH	benign
rs12952106	NP_060029	A	T	AT	benign

rs12952305	NP_061937	L	M	LM	benign
rs12952415	NP_060874	C	G	CG	probably damaging
rs12952951	NP_005112	P	T	PT	probably damaging
rs12952995	NP_653282	T	P	TP	benign
rs12953840	NP_115536	Y	C	YC	probably damaging
rs12953909	NP_008850	E	K	EK	benign
rs12954997	NP_579802	K	R	KR	benign
rs12954997	NP_542164	K	R	KR	benign
rs12955426	NP_057710	E	D	ED	benign
rs12956068	NP_775901	D	A	DA	possibly damaging
rs12956274	NP_055029	R	Q	RQ	benign
rs12956303	XP_113971	L	H	LH	possibly damaging
rs12957558	XP_497598	V	L	VL	benign
rs12957725	XP_113971	Q	R	QR	benign
rs12960414	XP_035405	S	I	SI	benign
rs12961512	XP_497598	T	I	TI	benign
rs12961939	NP_005550	S	A	SA	benign
rs12962228	XP_497583	S	P	SP	probably damaging
rs12963653	XP_290809	N	S	NS	benign
rs12964615	NP_694821	D	E	DE	benign
rs12964615	NP_620552	D	E	DE	benign
rs12964615	NP_620416	D	E	DE	benign
rs12964750	NP_694821	R	Q	RQ	possibly damaging
rs12964750	NP_620552	R	Q	RQ	possibly damaging
rs12964750	NP_620416	R	Q	RQ	possibly damaging
rs12965824	NP_694821	V	I	VI	benign
rs12965824	NP_620416	V	I	VI	benign
rs12966934	NP_443179	T	P	TP	benign
rs12968116	NP_005594	R	Q	RQ	possibly damaging
rs12968145	NP_056092	D	Y	DY	probably damaging
rs12970198	NP_536722	H	Y	HY	benign
rs12970605	NP_057710	T	P	TP	benign
rs12970790	NP_005777	C	S	CS	benign
rs12971220	XP_497598	P	L	PL	probably damaging
rs12971308	XP_059051	P	T	PT	benign
rs12971466	XP_371165	S	F	SF	benign
rs12971727	XP_498425	P	S	PS	benign
rs12971727	NP_037421	P	S	PS	benign
rs12971943	XP_371165	A	S	AS	benign
rs12971947	XP_371165	K	N	KN	benign
rs12971985	NP_597730	G	E	GE	benign
rs12972277	NP_113605	A	D	AD	possibly damaging
rs12972670	XP_372712	M	T	MT	benign
rs12972780	XP_058964	F	L	FL	benign
rs12972830	NP_999842	L	Q	LQ	benign
rs12972830	NP_999843	L	Q	LQ	benign

rs12972830	NP_999844	L	Q	LQ	benign
rs12972830	NP_999840	L	Q	LQ	benign
rs12973068	NP_631898	P	S	PS	possibly damaging
rs12973246	XP_497630	P	L	PL	benign
rs12973294	NP_597730	I	S	IS	probably damaging
rs12973496	XP_497630	H	D	HD	probably damaging
rs12973565	NP_201574	S	G	SG	benign
rs12973901	NP_066358	T	S	TS	benign
rs12974243	NP_008971	E	K	EK	benign
rs12974243	NP_653334	E	K	EK	benign
rs12974243	NP_653333	E	K	EK	benign
rs12974387	NP_005225	S	N	SN	benign
rs12974411	NP_005225	S	N	SN	benign
rs12974461	NP_110445	S	C	SC	possibly damaging
rs12974574	NP_689813	R	K	RK	benign
rs12974581	NP_689813	E	D	ED	benign
rs12974778	NP_689813	E	D	ED	benign
rs12974798	NP_006693	E	K	EK	benign
rs12974806	NP_689813	S	I	SI	benign
rs12974819	XP_371195	P	R	PR	possibly damaging
rs12974842	NP_775802	M	V	MV	benign
rs12974848	NP_999841	A	T	AT	benign
rs12974848	NP_999842	A	T	AT	benign
rs12974848	NP_999843	A	T	AT	benign
rs12974848	NP_999844	A	T	AT	benign
rs12974848	NP_999840	A	T	AT	benign
rs12974851	NP_999841	V	L	VL	benign
rs12974851	NP_999842	V	L	VL	benign
rs12974851	NP_999843	V	L	VL	benign
rs12974851	NP_999844	V	L	VL	benign
rs12974851	NP_999840	V	L	VL	benign
rs12974913	NP_005225	D	H	DH	benign
rs12974937	NP_056507	M	I	MI	benign
rs12975044	NP_689813	E	D	ED	benign
rs12975322	NP_115823	V	I	VI	benign
rs12975327	NP_689813	Q	H	QH	benign
rs12975335	XP_047550	R	T	RT	benign
rs12975339	NP_689813	R	M	RM	benign
rs12975366	NP_006831	D	G	DG	probably damaging
rs12975595	NP_005574	P	L	PL	possibly damaging
rs12976117	NP_003274	E	K	EK	possibly damaging
rs12976472	NP_038475	L	V	LV	benign
rs12976472	NP_690880	L	V	LV	benign
rs12976472	NP_690883	L	V	LV	benign
rs12976472	NP_690884	L	V	LV	benign
rs12976493	NP_690880	L	F	LF	benign



rs12976493	NP_690884	L	F	LF	benign
rs12976493	NP_038475	L	F	LF	possibly damaging
rs12976493	NP_690883	L	F	LF	possibly damaging
rs12976565	NP_003274	L	M	LM	benign
rs12976619	NP_004488	N	H	NH	benign
rs12976760	NP_003274	R	S	RS	benign
rs12976917	NP_689691	F	I	FI	possibly damaging
rs12976922	XP_371195	K	E	KE	benign
rs12976930	NP_002902	G	S	GS	benign
rs12977062	NP_006831	A	T	AT	benign
rs12977287	NP_872283	S	A	SA	benign
rs12977287	NP_689870	S	A	SA	benign
rs12977291	NP_004488	W	C	WC	probably damaging
rs12977303	XP_292765	H	Y	HY	probably damaging
rs12977398	NP_060553	P	A	PA	possibly damaging
rs12977403	NP_065746	H	L	HL	probably damaging
rs12977460	XP_372726	I	M	IM	benign
rs12977668	NP_060553	S	F	SF	benign
rs12977715	NP_776256	D	N	DN	possibly damaging
rs12977717	NP_002775	Q	R	QR	benign
rs12977769	NP_699160	A	P	AP	benign
rs12977803	NP_064560	D	N	DN	possibly damaging
rs12977942	NP_872283	S	W	SW	possibly damaging
rs12977942	NP_689870	S	W	SW	possibly damaging
rs12978146	NP_065139	T	A	TA	benign
rs12978266	NP_065863	P	L	PL	probably damaging
rs12978445	NP_115806	G	S	GS	benign
rs12978469	XP_114000	R	Q	RQ	benign
rs12978498	NP_006261	T	P	TP	probably damaging
rs12978513	NP_570602	R	S	RS	benign
rs12978667	NP_079489	A	P	AP	benign
rs12978667	NP_066022	A	P	AP	benign
rs12978900	XP_290850	L	S	LS	benign
rs12978958	XP_292765	K	I	KI	probably damaging
rs12979119	XP_371145	D	V	DV	probably damaging
rs12979532	NP_006376	R	C	RC	probably damaging
rs12979532	NP_942152	R	C	RC	probably damaging
rs12979551	XP_292724	E	D	ED	benign
rs12979574	NP_000942	T	R	TR	benign
rs12980121	NP_665814	C	S	CS	probably damaging
rs12980121	NP_114103	C	S	CS	probably damaging
rs12980121	NP_665813	C	S	CS	probably damaging
rs12980384	NP_073746	Q	H	QH	possibly damaging
rs12980412	XP_375619	D	N	DN	benign
rs12980412	NP_065139	N	D	ND	benign
rs12980886	NP_005874	A	G	AG	benign

rs12980960	NP_872304	E	K	EK	benign
rs12980998	XP_114000	T	S	TS	benign
rs12981076	NP_201574	G	S	GS	benign
rs12981200	NP_000531	A	P	AP	possibly damaging
rs12981714	XP_375619	V	G	VG	benign
rs12981714	NP_065139	G	V	GV	probably damaging
rs12981771	XP_375619	M	R	MR	benign
rs12981771	NP_065139	R	M	RM	benign
rs12981857	NP_004968	D	H	DH	possibly damaging
rs12981963	NP_000225	P	L	PL	probably damaging
rs12982492	NP_065879	S	L	SL	benign
rs12982617	XP_372719	K	I	KI	probably damaging
rs12982626	XP_372719	E	D	ED	possibly damaging
rs12982725	NP_000765	D	N	DN	possibly damaging
rs12982782	NP_689475	R	S	RS	benign
rs12982998	XP_053966	P	H	PH	probably damaging
rs12983010	NP_653292	C	R	CR	possibly damaging
rs12983033	XP_372719	H	N	HN	benign
rs12983251	XP_372719	E	K	EK	benign
rs12983322	XP_053966	P	L	PL	probably damaging
rs12983369	NP_005849	R	Q	RQ	benign
rs12983578	NP_660275	E	Q	EQ	benign
rs12983777	NP_060553	G	V	GV	possibly damaging
rs12983857	XP_496323	R	C	RC	probably damaging
rs12984043	NP_075384	G	R	GR	benign
rs12984043	NP_835388	G	R	GR	possibly damaging
rs12984371	NP_065879	V	G	VG	possibly damaging
rs12984503	NP_065746	R	W	RW	benign
rs12984558	NP_919409	R	W	RW	possibly damaging
rs12984558	NP_055496	R	W	RW	possibly damaging
rs12984731	XP_372719	L	Q	LQ	benign
rs12984809	NP_065746	P	S	PS	possibly damaging
rs12984938	XP_372719	I	R	IR	benign
rs12984947	NP_004488	W	G	WG	probably damaging
rs12985291	XP_058999	A	D	AD	benign
rs12985357	NP_065111	R	Q	RQ	benign
rs12985807	NP_038475	K	I	KI	benign
rs12985807	NP_690880	K	I	KI	benign
rs12985807	NP_690884	K	I	KI	benign
rs12985894	XP_372712	L	I	LI	benign
rs12985925	NP_006660	E	A	EA	benign
rs12985933	NP_006660	D	A	DA	benign
rs12986002	XP_290850	H	Y	HY	benign
rs12986193	XP_496323	M	R	MR	benign
rs12986235	XP_371200	Q	R	QR	benign
rs12986305	NP_065746	L	R	LR	benign

rs12987199	XP_097977	I	F	IF	benign
rs12987380	NP_938015	M	V	MV	possibly damaging
rs12988301	NP_775919	R	W	RW	benign
rs12988374	NP_078808	S	F	SF	possibly damaging
rs12988979	XP_496623	R	Q	RQ	benign
rs12989017	NP_114148	K	N	KN	benign
rs12989017	NP_665809	K	N	KN	benign
rs12990449	NP_061027	Q	R	QR	benign
rs12990978	NP_060733	T	P	TP	possibly damaging
rs12991178	NP_060733	T	P	TP	benign
rs12991373	XP_496601	E	K	EK	benign
rs12992066	NP_653308	R	Q	RQ	benign
rs12992439	XP_097977	I	N	IN	possibly damaging
rs12992480	NP_058523	C	W	CW	probably damaging
rs12992480	NP_002888	C	W	CW	probably damaging
rs12992480	NP_058520	C	W	CW	probably damaging
rs12993079	NP_075408	D	A	DA	probably damaging
rs12993079	NP_004073	D	A	DA	probably damaging
rs12993599	NP_056505	R	Q	RQ	benign
rs12994035	NP_006584	H	Q	HQ	probably damaging
rs12994124	XP_496601	G	V	GV	probably damaging
rs12995235	NP_951060	S	I	SI	benign
rs12995235	NP_060093	S	I	SI	benign
rs12995673	XP_371542	P	L	PL	probably damaging
rs12995839	NP_004930	Q	H	QH	possibly damaging
rs12996049	NP_003039	L	M	LM	benign
rs12996202	XP_498895	F	I	FI	benign
rs12997487	NP_057525	E	K	EK	benign
rs12999226	NP_005535	S	F	SF	possibly damaging
rs13000235	NP_620155	C	W	CW	probably damaging
rs13000249	NP_997195	R	S	RS	benign
rs13000721	NP_997195	A	V	AV	benign
rs13001376	NP_060041	R	G	RG	possibly damaging
rs13002500	XP_371480	K	N	KN	benign
rs13002726	NP_000201	E	K	EK	benign
rs13003768	NP_055744	V	E	VE	possibly damaging
rs13005084	NP_003609	M	I	MI	benign
rs13006204	NP_919288	A	S	AS	benign
rs13006488	NP_000224	S	P	SP	benign
rs13006529	NP_001221	L	I	LI	benign
rs13006529	NP_116759	L	I	LI	benign
rs13007595	NP_689728	T	I	TI	benign
rs13008785	XP_371476	Y	F	YF	benign
rs13009153	NP_060461	D	E	DE	benign
rs13009279	XP_373979	A	T	AT	benign
rs13009745	XP_373979	E	D	ED	benign

rs13010243	XP_376189	Q	P	QP	benign
rs13010513	NP_005782	R	H	RH	benign
rs13010627	NP_001221	V	I	VI	benign
rs13010627	NP_116759	V	I	VI	benign
rs13010627	NP_116756	V	I	VI	benign
rs13011167	NP_073153	Q	R	QR	benign
rs13011244	XP_496601	R	C	RC	probably damaging
rs13011252	NP_689733	T	S	TS	benign
rs13011322	XP_373979	L	V	LV	benign
rs13011359	NP_073153	Q	R	QR	benign
rs13011490	XP_097977	L	V	LV	benign
rs13011500	NP_115544	M	K	MK	probably damaging
rs13011600	NP_612477	C	G	CG	probably damaging
rs13011674	XP_496601	L	V	LV	benign
rs13011768	NP_085054	V	I	VI	benign
rs13011898	XP_496601	P	H	PH	probably damaging
rs13012310	XP_496601	F	L	FL	benign
rs13013413	XP_371490	R	H	RH	benign
rs13014235	NP_631902	L	V	LV	benign
rs13015406	XP_371476	M	T	MT	benign
rs13016910	NP_115544	I	F	IF	possibly damaging
rs13017697	NP_055610	A	V	AV	benign
rs13018099	NP_005680	V	F	VF	possibly damaging
rs13018426	NP_005680	A	G	AG	benign
rs13018427	NP_005680	N	K	NK	benign
rs13018440	NP_005680	L	V	LV	benign
rs13018444	XP_376150	A	V	AV	possibly damaging
rs13020030	XP_498895	A	T	AT	benign
rs13020091	XP_496611	A	G	AG	benign
rs13020272	XP_497905	R	C	RC	possibly damaging
rs13020735	NP_006764	A	S	AS	benign
rs13021319	NP_004027	S	L	SL	benign
rs13021567	NP_003039	T	S	TS	benign
rs13021722	XP_497879	L	F	LF	benign
rs13022344	NP_055864	I	V	IV	benign
rs13023540	NP_056505	R	Q	RQ	benign
rs13023605	NP_073153	R	G	RG	possibly damaging
rs13024542	NP_004534	V	G	VG	possibly damaging
rs13024801	NP_073737	G	S	GS	benign
rs13025959	XP_291001	E	D	ED	benign
rs13026692	NP_001623	I	L	IL	benign
rs13027171	NP_006334	N	S	NS	benign
rs13028202	NP_002945	D	N	DN	possibly damaging
rs13028389	NP_073153	T	I	TI	benign
rs13028392	NP_002945	E	K	EK	benign
rs13029218	XP_373979	N	I	NI	benign

rs13029446	NP_998754	S	C	SC	benign
rs13029846	NP_056993	I	V	IV	benign
rs13029913	NP_073153	Q	H	QH	benign
rs13030376	NP_002245	S	C	SC	benign
rs13030382	NP_002245	P	A	PA	possibly damaging
rs13030638	XP_209489	C	R	CR	probably damaging
rs13031147	NP_775919	F	L	FL	benign
rs13031859	NP_919224	R	C	RC	benign
rs13031957	NP_115642	N	S	NS	benign
rs13033248	NP_919288	I	V	IV	benign
rs13034477	NP_689733	N	K	NK	possibly damaging
rs13034635	NP_689733	A	G	AG	benign
rs13034775	NP_061720	R	Q	RQ	benign
rs13035211	NP_115544	E	D	ED	benign
rs13036061	NP_061875	M	T	MT	benign
rs13036355	NP_065764	K	R	KR	benign
rs13036385	NP_872325	R	P	RP	possibly damaging
rs13037050	NP_057069	E	A	EA	benign
rs13037181	NP_877398	D	V	DV	probably damaging
rs13037181	NP_056007	D	V	DV	probably damaging
rs13037638	NP_942093	N	H	NH	possibly damaging
rs13037900	NP_071753	P	H	PH	possibly damaging
rs13038328	NP_057069	L	V	LV	benign
rs13038580	NP_002187	F	L	FL	benign
rs13039338	NP_055073	T	K	TK	possibly damaging
rs13039398	NP_005551	R	W	RW	benign
rs13039453	NP_954673	W	R	WR	probably damaging
rs13039453	NP_954580	W	R	WR	probably damaging
rs13039828	NP_006517	Q	R	QR	benign
rs13040097	NP_002942	S	N	SN	benign
rs13041270	NP_877398	D	E	DE	benign
rs13041270	NP_056007	D	E	DE	benign
rs13041394	NP_818932	S	F	SF	benign
rs13041394	NP_036288	S	F	SF	benign
rs13041706	NP_005216	A	S	AS	benign
rs13041707	NP_005216	A	S	AS	benign
rs13042064	NP_055073	T	P	TP	possibly damaging
rs13042158	NP_056081	L	M	LM	benign
rs13042905	NP_071753	P	L	PL	benign
rs13043353	NP_877398	T	P	TP	possibly damaging
rs13043353	NP_056007	T	P	TP	possibly damaging
rs13043752	NP_000678	R	W	RW	possibly damaging
rs13043898	NP_057069	S	T	ST	benign
rs13044006	NP_006233	G	D	GD	possibly damaging
rs13046170	NP_689718	C	Y	CY	probably damaging
rs13047375	NP_004330	S	A	SA	benign

rs13047465	NP_002597	C	Y	CY	probably damaging
rs13047478	NP_478060	P	S	PS	possibly damaging
rs13047599	NP_003094	C	R	CR	benign
rs13047599	NP_115571	R	C	RC	benign
rs13047599	NP_620304	R	C	RC	benign
rs13047599	NP_620305	R	C	RC	benign
rs13047599	NP_478063	R	C	RC	possibly damaging
rs13048049	NP_061834	R	Q	RQ	benign
rs13048804	NP_444507	S	G	SG	benign
rs13049028	NP_444507	Q	E	QE	benign
rs13049404	NP_478060	P	L	PL	probably damaging
rs13049591	NP_066553	T	K	TK	benign
rs13049658	NP_478063	T	M	TM	benign
rs13049658	NP_115571	T	M	TM	possibly damaging
rs13049658	NP_620304	T	M	TM	possibly damaging
rs13049658	NP_620305	T	M	TM	possibly damaging
rs13049658	NP_003094	T	M	TM	possibly damaging
rs13049745	NP_444507	V	D	VD	benign
rs13050238	NP_005102	A	T	AT	benign
rs13050238	NP_660354	A	T	AT	benign
rs13050238	NP_665857	A	T	AT	benign
rs13050272	XP_497781	E	K	EK	benign
rs13050334	NP_071398	T	I	TI	benign
rs13051496	NP_001839	S	L	SL	benign
rs13053363	XP_496534	A	T	AT	benign
rs13054189	NP_115997	D	G	DG	possibly damaging
rs13054930	NP_114408	E	Q	EQ	benign
rs13054973	NP_005189	S	N	SN	benign
rs13054979	NP_998885	V	L	VL	benign
rs13055061	NP_055107	P	A	PA	benign
rs13055639	XP_371470	V	A	VA	benign
rs13056405	NP_149977	S	N	SN	benign
rs13056617	XP_496534	R	S	RS	possibly damaging
rs13056825	NP_660341	N	S	NS	benign
rs13056958	NP_001042	A	V	AV	benign
rs13057011	NP_775781	R	S	RS	benign
rs13057124	NP_001042	F	L	FL	benign
rs13057290	NP_037497	V	L	VL	benign
rs13057311	NP_055493	R	K	RK	benign
rs13057352	NP_073603	L	F	LF	benign
rs13057474	XP_377720	E	K	EK	benign
rs13057681	XP_037493	D	H	DH	benign
rs13057803	NP_000622	I	T	IT	possibly damaging
rs13057803	NP_038202	I	T	IT	possibly damaging
rs13058434	NP_115997	P	L	PL	benign
rs13058467	NP_055955	N	S	NS	benign

rs13059238	NP_078789	N	D	ND	benign
rs13059332	NP_073600	S	C	SC	possibly damaging
rs13059805	NP_054858	G	E	GE	possibly damaging
rs13059964	NP_055298	S	F	SF	benign
rs13060028	XP_031246	C	W	CW	probably damaging
rs13060040	XP_031246	S	R	SR	possibly damaging
rs13060627	NP_570843	I	V	IV	benign
rs13060838	NP_079199	P	S	PS	possibly damaging
rs13060847	NP_006605	T	A	TA	benign
rs13060964	NP_849146	L	P	LP	benign
rs13061862	NP_004788	G	V	GV	probably damaging
rs13062294	XP_291064	Q	H	QH	benign
rs13062943	NP_872437	A	G	AG	benign
rs13062993	NP_065747	V	A	VA	benign
rs13063311	NP_055463	I	F	IF	benign
rs13063688	XP_031246	V	G	VG	possibly damaging
rs13064039	NP_002941	G	A	GA	benign
rs13064206	NP_002941	S	F	SF	possibly damaging
rs13064319	NP_079103	Q	H	QH	possibly damaging
rs13064394	NP_689607	A	S	AS	benign
rs13064708	NP_114161	T	P	TP	benign
rs13064905	XP_496634	E	D	ED	benign
rs13065048	XP_496634	T	A	TA	benign
rs13065525	XP_210562	L	F	LF	benign
rs13066806	NP_073613	V	G	VG	possibly damaging
rs13067702	XP_497911	I	M	IM	probably damaging
rs13068038	NP_835467	D	E	DE	benign
rs13068498	XP_497921	S	F	SF	possibly damaging
rs13070515	NP_570843	L	P	LP	probably damaging
rs13071874	NP_065941	I	V	IV	benign
rs13072536	NP_002209	I	N	IN	benign
rs13073018	XP_209554	C	R	CR	probably damaging
rs13073139	NP_000051	A	T	AT	benign
rs13073546	NP_000395	I	V	IV	benign
rs13074913	NP_003938	W	G	WG	probably damaging
rs13075884	NP_079223	E	G	EG	possibly damaging
rs13076542	NP_002366	D	G	DG	benign
rs13076836	NP_073594	M	R	MR	benign
rs13077498	NP_940964	E	K	EK	benign
rs13078735	NP_002438	V	M	VM	benign
rs13078867	NP_653316	P	S	PS	possibly damaging
rs13078881	NP_000051	D	H	DH	possibly damaging
rs13079478	NP_078789	N	K	NK	benign
rs13079660	NP_003065	Y	C	YC	probably damaging
rs13079661	NP_003065	S	C	SC	possibly damaging
rs13081741	NP_004584	V	M	VM	benign

rs13081859	NP_079445	F	S	FS	benign
rs13081902	NP_004584	V	I	VI	benign
rs13081937	NP_079199	D	E	DE	benign
rs13082605	NP_055893	N	S	NS	benign
rs13082830	NP_899630	V	D	VD	possibly damaging
rs13082830	NP_899631	V	D	VD	possibly damaging
rs13082830	NP_003707	V	D	VD	possibly damaging
rs13083435	NP_060662	H	P	HP	probably damaging
rs13083928	NP_065941	P	L	PL	probably damaging
rs13084057	XP_497921	A	P	AP	probably damaging
rs13085338	XP_210562	L	I	LI	benign
rs13085828	NP_001398	R	I	RI	possibly damaging
rs13085851	XP_376201	E	Q	EQ	benign
rs13085855	NP_940865	T	P	TP	possibly damaging
rs13087457	NP_004517	G	R	GR	benign
rs13087612	XP_496634	F	L	FL	probably damaging
rs13087729	NP_057456	S	R	SR	benign
rs13088642	XP_041363	L	M	LM	benign
rs13088676	XP_041363	A	D	AD	possibly damaging
rs13088948	NP_001670	V	G	VG	probably damaging
rs13089403	XP_291028	A	D	AD	benign
rs13089536	XP_041363	G	V	GV	probably damaging
rs13089940	XP_041363	A	P	AP	benign
rs13091100	NP_003062	V	G	VG	possibly damaging
rs13091100	NP_620636	V	G	VG	possibly damaging
rs13093808	XP_291055	A	E	AE	benign
rs13094535	XP_497912	R	K	RK	benign
rs13094868	XP_496642	D	H	DH	possibly damaging
rs13094925	XP_045911	M	I	MI	probably damaging
rs13095607	XP_291080	H	Y	HY	benign
rs13095608	NP_114438	V	G	VG	possibly damaging
rs13096122	XP_209554	L	M	LM	benign
rs13096767	NP_078963	G	A	GA	benign
rs13096789	NP_115894	C	R	CR	probably damaging
rs13096947	NP_002366	S	P	SP	benign
rs13097123	NP_703192	P	L	PL	probably damaging
rs13097314	NP_620160	R	H	RH	possibly damaging
rs13097415	NP_002366	P	L	PL	probably damaging
rs13097796	NP_006021	P	A	PA	probably damaging
rs13098148	NP_006587	L	V	LV	benign
rs13098148	NP_955452	L	V	LV	benign
rs13098836	NP_776160	I	V	IV	benign
rs13099146	NP_063948	T	P	TP	possibly damaging
rs13099684	NP_073594	N	T	NT	benign
rs13099699	NP_003065	Y	D	YD	probably damaging
rs13100173	NP_003540	H	Y	HY	possibly damaging



rs13101652	XP_209655	M	T	MT	benign
rs13102250	NP_006059	L	W	LW	possibly damaging
rs13103807	NP_057683	P	L	PL	probably damaging
rs13104984	NP_001502	L	I	LI	benign
rs13105608	NP_006578	D	G	DG	possibly damaging
rs13106366	NP_640336	N	T	NT	benign
rs13106561	NP_640336	T	P	TP	benign
rs13106574	NP_932069	I	V	IV	benign
rs13106730	NP_640336	A	G	AG	benign
rs13106867	XP_035572	P	L	PL	probably damaging
rs13107325	NP_071437	A	T	AT	benign
rs13107595	NP_006448	N	S	NS	possibly damaging
rs13108827	XP_093895	E	K	EK	benign
rs13108832	XP_093895	E	Q	EQ	benign
rs13109774	NP_003934	P	L	PL	probably damaging
rs13110927	XP_376353	N	D	ND	benign
rs13112358	NP_060718	L	P	LP	possibly damaging
rs13112390	NP_060718	H	Q	HQ	probably damaging
rs13113639	NP_149113	T	P	TP	possibly damaging
rs13114026	NP_060203	V	I	VI	benign
rs13115344	NP_060203	R	H	RH	benign
rs13115990	NP_938167	P	L	PL	probably damaging
rs13116684	NP_997213	I	V	IV	benign
rs13116875	NP_689896	F	L	FL	possibly damaging
rs13117632	NP_277077	I	N	IN	possibly damaging
rs13118336	NP_787114	W	R	WR	probably damaging
rs13118702	XP_093895	E	K	EK	benign
rs13119049	NP_066962	D	E	DE	possibly damaging
rs13119073	NP_689834	Y	D	YD	possibly damaging
rs13119384	NP_115525	P	S	PS	benign
rs13119545	NP_003610	T	R	TR	benign
rs13125836	NP_620775	D	N	DN	benign
rs13127336	NP_037499	S	N	SN	benign
rs13127820	NP_002439	M	L	ML	possibly damaging
rs13128286	NP_079019	T	A	TA	benign
rs13129474	NP_002244	V	I	VI	benign
rs13131258	NP_777612	F	V	FV	benign
rs13131259	NP_777612	C	W	CW	benign
rs13131342	NP_112569	Y	N	YN	probably damaging
rs13131525	NP_848651	E	K	EK	benign
rs13132885	NP_057295	I	K	IK	probably damaging
rs13132885	NP_055748	I	K	IK	probably damaging
rs13134070	NP_058626	D	Y	DY	probably damaging
rs13134806	NP_277077	N	K	NK	possibly damaging
rs13135541	XP_373035	L	I	LI	benign
rs13135778	NP_689831	D	N	DN	benign

rs13135886	NP_116316	H	R	HR	possibly damaging
rs13136287	NP_787114	R	P	RP	possibly damaging
rs13138325	NP_057295	I	V	IV	benign
rs13138325	NP_055748	I	V	IV	benign
rs13140552	XP_293687	P	A	PA	benign
rs13141787	XP_094074	S	F	SF	possibly damaging
rs13143848	NP_115525	E	G	EG	possibly damaging
rs13144341	NP_573574	S	G	SG	benign
rs13144371	NP_004958	G	D	GD	benign
rs13146272	NP_997235	K	Q	KQ	benign
rs13146847	NP_149113	D	A	DA	probably damaging
rs13147012	XP_376334	T	A	TA	benign
rs13148353	NP_079420	R	H	RH	benign
rs13149772	NP_000397	A	P	AP	possibly damaging
rs13149890	NP_057213	D	E	DE	benign
rs13151294	NP_006717	F	L	FL	possibly damaging
rs13151295	NP_006717	F	V	FV	possibly damaging
rs13151385	NP_001338	A	S	AS	benign
rs13151700	XP_037817	V	L	VL	benign
rs13152058	NP_055280	W	G	WG	probably damaging
rs13152776	NP_003254	E	V	EV	probably damaging
rs13153166	NP_114399	S	R	SR	benign
rs13153247	XP_043493	R	P	RP	probably damaging
rs13153253	XP_043493	K	N	KN	possibly damaging
rs13153261	XP_043493	E	K	EK	possibly damaging
rs13154302	NP_004165	R	Q	RQ	benign
rs13155282	NP_861439	E	D	ED	benign
rs13155288	NP_861439	L	P	LP	probably damaging
rs13155520	NP_861439	S	F	SF	possibly damaging
rs13157538	NP_061760	T	A	TA	benign
rs13157656	NP_000578	T	P	TP	benign
rs13157990	NP_055548	R	G	RG	probably damaging
rs13158350	NP_689835	D	N	DN	benign
rs13158435	NP_061759	D	A	DA	probably damaging
rs13158443	NP_061759	T	P	TP	probably damaging
rs13159001	XP_291141	I	S	IS	benign
rs13161018	NP_001436	T	M	TM	benign
rs13162063	NP_053584	S	N	SN	benign
rs13162063	NP_053585	S	N	SN	benign
rs13162063	NP_053586	S	N	SN	benign
rs13162063	NP_004874	S	N	SN	benign
rs13162195	NP_665874	R	K	RK	benign
rs13163938	XP_171094	D	Y	DY	probably damaging
rs13164210	NP_056484	S	P	SP	benign
rs13166146	NP_000818	D	N	DN	possibly damaging
rs13166161	NP_000818	P	T	PT	probably damaging

rs13166360	NP_065433	V	L	VL	benign
rs13166438	NP_000818	A	S	AS	benign
rs13166485	NP_004376	D	E	DE	benign
rs13166905	XP_498030	T	P	TP	benign
rs13167170	NP_056157	N	T	NT	possibly damaging
rs13167392	NP_060826	T	P	TP	possibly damaging
rs13167526	NP_056157	A	P	AP	benign
rs13167812	NP_057374	R	W	RW	benign
rs13168357	XP_209719	L	P	LP	benign
rs13168659	NP_073739	M	I	MI	benign
rs13169133	NP_071916	C	R	CR	probably damaging
rs13169854	XP_498013	Y	C	YC	probably damaging
rs13170082	NP_079143	V	A	VA	benign
rs13170390	NP_079143	P	A	PA	possibly damaging
rs13170917	NP_061763	S	G	SG	benign
rs13171859	NP_115267	V	I	VI	benign
rs13171859	NP_061746	V	I	VI	benign
rs13173779	NP_114480	Y	D	YD	probably damaging
rs13173779	NP_114481	Y	D	YD	probably damaging
rs13173779	NP_061737	Y	D	YD	probably damaging
rs13173820	NP_114480	V	G	VG	probably damaging
rs13173820	NP_114481	V	G	VG	probably damaging
rs13173820	NP_061737	V	G	VG	probably damaging
rs13173930	NP_775760	H	R	HR	probably damaging
rs13174039	NP_006718	V	G	VG	probably damaging
rs13174166	NP_053585	S	R	SR	benign
rs13174166	NP_053584	S	R	SR	possibly damaging
rs13174166	NP_053586	S	R	SR	possibly damaging
rs13174166	NP_004874	S	R	SR	possibly damaging
rs13174484	NP_775760	V	M	VM	benign
rs13174866	NP_061763	L	V	LV	benign
rs13174972	NP_061760	G	S	GS	benign
rs13175226	NP_003053	D	G	DG	probably damaging
rs13175548	NP_061759	G	S	GS	benign
rs13176401	NP_113598	T	I	TI	benign
rs13176401	NP_061723	T	I	TI	benign
rs13176519	NP_066008	R	C	RC	benign
rs13176636	XP_291141	D	G	DG	possibly damaging
rs13176756	NP_061759	P	Q	PQ	benign
rs13176770	XP_291141	N	K	NK	benign
rs13176883	NP_009049	E	Q	EQ	benign
rs13176948	NP_005500	H	P	HP	probably damaging
rs13177229	NP_699192	L	I	LI	benign
rs13177917	NP_689835	N	K	NK	possibly damaging
rs13179480	NP_004937	D	A	DA	benign
rs13179490	NP_004937	H	P	HP	probably damaging

rs13179709	NP_597713	S	T	ST	benign
rs13180104	NP_061760	S	R	SR	benign
rs13180806	NP_005564	L	V	LV	benign
rs13181823	NP_689835	N	D	ND	benign
rs13181859	NP_008948	P	L	PL	probably damaging
rs13181859	NP_848511	P	L	PL	probably damaging
rs13181973	NP_001955	T	I	TI	possibly damaging
rs13181975	NP_689835	D	V	DV	possibly damaging
rs13182471	XP_496766	L	V	LV	benign
rs13182489	XP_291128	N	T	NT	benign
rs13182512	NP_689618	L	M	LM	possibly damaging
rs13183625	NP_115822	P	L	PL	probably damaging
rs13183830	XP_171094	V	G	VG	probably damaging
rs13184107	NP_620586	D	N	DN	benign
rs13184139	NP_004376	D	V	DV	probably damaging
rs13184186	NP_115271	A	G	AG	benign
rs13184186	NP_061749	A	G	AG	possibly damaging
rs13184406	NP_071916	H	R	HR	benign
rs13184503	NP_115271	A	G	AG	benign
rs13184503	NP_061749	A	G	AG	benign
rs13184505	NP_115271	Q	E	QE	benign
rs13184505	NP_061749	Q	E	QE	benign
rs13186047	NP_000818	V	G	VG	probably damaging
rs13186162	XP_496766	Q	R	QR	possibly damaging
rs13186241	NP_000818	I	M	IM	benign
rs13186365	NP_000818	F	S	FS	possibly damaging
rs13186534	NP_000818	F	L	FL	benign
rs13188049	NP_057664	R	S	RS	benign
rs13188215	NP_114480	S	F	SF	probably damaging
rs13188215	NP_114481	S	F	SF	probably damaging
rs13188215	NP_061737	S	F	SF	probably damaging
rs13188519	NP_689838	A	G	AG	benign
rs13189280	NP_061763	P	L	PL	benign
rs13189440	NP_060084	A	D	AD	benign
rs13189658	NP_113688	R	W	RW	benign
rs13189658	NP_061730	R	W	RW	benign
rs13190449	NP_775759	A	V	AV	benign
rs13193063	XP_371825	M	T	MT	benign
rs13193114	XP_294019	T	A	TA	benign
rs13194101	NP_777570	V	A	VA	benign
rs13194584	NP_057314	N	S	NS	benign
rs13194995	NP_065121	T	S	TS	benign
rs13195401	NP_008980	W	L	WL	probably damaging
rs13195401	NP_510961	W	L	WL	probably damaging
rs13195402	NP_008980	W	C	WC	probably damaging
rs13195402	NP_510961	W	C	WC	probably damaging

rs13195509	NP_008980	V	M	VM	benign
rs13195509	NP_510961	V	M	VM	benign
rs13195829	NP_005609	W	G	WG	probably damaging
rs13196796	XP_166450	Y	F	YF	benign
rs13196902	XP_166450	Q	E	QE	benign
rs13197356	NP_055968	T	P	TP	benign
rs13197841	NP_005059	I	L	IL	benign
rs13198026	NP_002835	N	T	NT	benign
rs13199791	NP_640337	A	S	AS	benign
rs13200055	NP_003309	A	V	AV	benign
rs13200344	NP_004146	C	W	CW	probably damaging
rs13200355	NP_443145	I	N	IN	possibly damaging
rs13200925	NP_065855	D	N	DN	possibly damaging
rs13201491	XP_496798	P	T	PT	possibly damaging
rs13201823	XP_371817	D	E	DE	benign
rs13202027	XP_496798	G	C	GC	benign
rs13202683	XP_496798	S	Y	SY	possibly damaging
rs13202977	XP_376518	T	I	TI	benign
rs13203003	NP_065806	E	D	ED	benign
rs13203293	XP_371837	A	V	AV	possibly damaging
rs13203993	NP_078857	E	K	EK	benign
rs13204101	NP_775945	T	P	TP	benign
rs13204107	NP_775945	T	P	TP	possibly damaging
rs13204209	NP_001849	E	G	EG	possibly damaging
rs13204223	NP_065121	D	E	DE	benign
rs13204349	NP_065121	M	I	MI	benign
rs13204476	NP_963853	R	S	RS	probably damaging
rs13205210	NP_060224	M	T	MT	benign
rs13207293	XP_376518	T	P	TP	benign
rs13207310	XP_376518	D	A	DA	benign
rs13207595	NP_598000	H	R	HR	probably damaging
rs13207772	NP_060762	K	N	KN	benign
rs13208706	NP_659462	F	L	FL	benign
rs13209311	NP_055833	Y	C	YC	probably damaging
rs13209396	NP_862825	S	I	SI	benign
rs13209403	NP_862825	S	I	SI	benign
rs13209405	NP_862825	Q	H	QH	benign
rs13210117	NP_002621	I	T	IT	benign
rs13210127	NP_892006	K	T	KT	benign
rs13210127	NP_149062	K	T	KT	possibly damaging
rs13210426	NP_065806	V	G	VG	possibly damaging
rs13210431	NP_065806	C	W	CW	probably damaging
rs13210442	NP_065806	V	G	VG	possibly damaging
rs13210446	NP_065806	F	V	FV	possibly damaging
rs13210448	NP_065806	V	G	VG	possibly damaging
rs13210569	NP_065806	L	V	LV	benign

rs13210845	NP_149062	N	S	NS	benign
rs13210845	NP_892006	N	S	NS	benign
rs13211183	XP_294139	N	S	NS	benign
rs13212023	NP_722581	S	P	SP	benign
rs13212409	NP_001892	R	C	RC	possibly damaging
rs13212806	XP_166443	Y	S	YS	probably damaging
rs13213262	NP_005898	L	F	LF	benign
rs13213314	XP_496824	T	S	TS	benign
rs13213706	NP_057569	C	W	CW	probably damaging
rs13213889	NP_851853	A	V	AV	benign
rs13214568	NP_079537	L	M	LM	benign
rs13215023	NP_443145	R	K	RK	benign
rs13215027	NP_443145	A	P	AP	benign
rs13216256	NP_065188	C	W	CW	probably damaging
rs13216733	NP_003212	D	E	DE	benign
rs13216757	NP_899236	Y	H	YH	possibly damaging
rs13216828	NP_008978	S	N	SN	benign
rs13217660	XP_496798	S	P	SP	possibly damaging
rs13217978	NP_056108	S	P	SP	possibly damaging
rs13217978	NP_598411	S	P	SP	possibly damaging
rs13217978	NP_149062	S	P	SP	possibly damaging
rs13217978	NP_892006	S	P	SP	possibly damaging
rs13218057	XP_496798	L	R	LR	possibly damaging
rs13218137	XP_496798	S	C	SC	benign
rs13218909	XP_376518	E	D	ED	benign
rs13219364	NP_849145	R	K	RK	benign
rs13219837	NP_612417	D	E	DE	benign
rs13220505	NP_065121	E	A	EA	benign
rs13220512	NP_065121	T	S	TS	benign
rs13220949	NP_000768	R	K	RK	possibly damaging
rs13221869	NP_001224	F	L	FL	possibly damaging
rs13222448	NP_848654	K	R	KR	benign
rs13223375	XP_373223	K	N	KN	benign
rs13223377	XP_373223	R	P	RP	possibly damaging
rs13224019	NP_775835	T	S	TS	benign
rs13224273	XP_166573	C	W	CW	probably damaging
rs13224304	NP_775835	C	Y	CY	probably damaging
rs13224700	NP_005514	A	V	AV	benign
rs13225435	XP_171158	T	A	TA	benign
rs13225917	NP_079202	D	N	DN	benign
rs13226304	XP_373223	P	R	PR	benign
rs13226319	XP_373223	P	A	PA	possibly damaging
rs13226391	XP_376588	L	P	LP	possibly damaging
rs13226569	XP_376720	A	T	AT	benign
rs13226590	XP_376588	A	S	AS	benign
rs13227127	XP_373223	R	H	RH	benign

rs13227435	NP_951038	G	A	GA	benign
rs13227841	NP_872310	R	W	RW	possibly damaging
rs13228098	NP_694544	G	E	GE	possibly damaging
rs13229174	XP_069623	T	A	TA	benign
rs13229689	XP_496852	Y	H	YH	benign
rs13229806	NP_060854	L	V	LV	benign
rs13229808	NP_060854	C	G	CG	possibly damaging
rs13229961	NP_742053	S	T	ST	benign
rs13229961	NP_000229	S	T	ST	benign
rs13231116	NP_733751	P	T	PT	benign
rs13231116	NP_067053	P	T	PT	possibly damaging
rs13231261	NP_787082	C	W	CW	probably damaging
rs13231327	XP_376610	S	G	SG	benign
rs13231392	XP_376720	G	D	GD	possibly damaging
rs13232463	NP_689772	S	W	SW	benign
rs13232713	NP_078913	S	P	SP	benign
rs13232718	NP_078913	F	V	FV	possibly damaging
rs13233476	XP_498236	T	A	TA	benign
rs13233513	NP_065779	C	S	CS	probably damaging
rs13233636	NP_002778	T	P	TP	probably damaging
rs13233694	XP_377958	G	S	GS	benign
rs13233803	NP_000768	R	T	RT	probably damaging
rs13234554	NP_001224	D	G	DG	probably damaging
rs13234724	NP_078987	S	G	SG	benign
rs13235235	XP_069623	Y	H	YH	benign
rs13235676	XP_496879	K	Q	KQ	benign
rs13236790	NP_061884	K	E	KE	benign
rs13236790	NP_996999	K	E	KE	benign
rs13236790	NP_996994	K	E	KE	benign
rs13237089	NP_065150	S	F	SF	benign
rs13237267	NP_057033	E	Q	EQ	benign
rs13237344	XP_496889	M	L	ML	benign
rs13237588	XP_373223	S	P	SP	benign
rs13237814	NP_001449	G	R	GR	probably damaging
rs13238986	NP_076956	K	T	KT	benign
rs13238987	NP_076956	K	Q	KQ	benign
rs13239382	NP_663733	K	I	KI	probably damaging
rs13239382	NP_004071	K	I	KI	probably damaging
rs13239426	NP_057304	K	T	KT	benign
rs13239433	NP_057304	R	G	RG	possibly damaging
rs13239533	NP_001779	N	T	NT	possibly damaging
rs13240247	XP_373223	H	R	HR	possibly damaging
rs13240350	XP_373223	T	P	TP	benign
rs13241921	NP_689772	Q	R	QR	benign
rs13242341	XP_373219	I	M	IM	benign
rs13242820	XP_496852	R	T	RT	benign

rs13243961	NP_031368	D	N	DN	benign
rs13244067	XP_373223	N	S	NS	benign
rs13244259	NP_115693	F	L	FL	benign
rs13244810	XP_165511	N	T	NT	benign
rs13245390	XP_498171	K	E	KE	benign
rs13245758	NP_851994	S	T	ST	benign
rs13245758	NP_065162	S	T	ST	benign
rs13246077	NP_851994	S	Y	SY	possibly damaging
rs13246077	NP_065162	S	Y	SY	possibly damaging
rs13246088	NP_002132	L	F	LF	benign
rs13246682	NP_000656	E	K	EK	benign
rs13246682	NP_056646	E	K	EK	benign
rs13246887	NP_009201	E	K	EK	benign
rs13247092	NP_078913	Q	H	QH	benign
rs13249097	NP_054831	T	A	TA	benign
rs13249533	NP_000653	R	Q	RQ	benign
rs13249542	NP_659400	H	N	HN	probably damaging
rs13250032	NP_659400	A	S	AS	benign
rs13251732	NP_000309	G	S	GS	benign
rs13252213	XP_376736	A	T	AT	benign
rs13252403	NP_078997	L	P	LP	possibly damaging
rs13254277	NP_079107	E	Q	EQ	benign
rs13255076	NP_742056	S	T	ST	benign
rs13255076	NP_742057	S	T	ST	benign
rs13255076	NP_742055	S	T	ST	benign
rs13255101	NP_003792	K	N	KN	benign
rs13255110	XP_372063	K	E	KE	benign
rs13255674	XP_498268	T	A	TA	benign
rs13255694	NP_003808	V	M	VM	benign
rs13255719	XP_498268	E	G	EG	benign
rs13255844	XP_088376	G	E	GE	benign
rs13256683	XP_498289	R	S	RS	benign
rs13257512	NP_079107	D	A	DA	benign
rs13259668	NP_003808	N	H	NH	benign
rs13260331	NP_473369	A	V	AV	benign
rs13260439	XP_372063	D	N	DN	benign
rs13263056	NP_056069	R	L	RL	possibly damaging
rs13263632	NP_004306	S	N	SN	benign
rs13264294	NP_998785	L	F	LF	benign
rs13264294	NP_998784	L	F	LF	possibly damaging
rs13264624	NP_612474	S	C	SC	possibly damaging
rs13265018	NP_003833	A	V	AV	benign
rs13265557	NP_061971	I	V	IV	benign
rs13266400	XP_496990	I	S	IS	benign
rs13266634	NP_776250	R	W	RW	possibly damaging
rs13267286	NP_116166	A	D	AD	possibly damaging



rs13268757	NP_015628	C	R	CR	possibly damaging
rs13269488	XP_291277	G	S	GS	benign
rs13270305	NP_003869	A	T	AT	benign
rs13272376	XP_291277	G	C	GC	probably damaging
rs13272703	XP_498268	L	V	LV	benign
rs13272825	NP_056235	N	S	NS	benign
rs13276522	NP_056235	S	I	SI	benign
rs13277260	NP_005363	Q	H	QH	possibly damaging
rs13277386	NP_659441	K	N	KN	benign
rs13277542	XP_496997	E	A	EA	benign
rs13277743	NP_006794	Y	H	YH	possibly damaging
rs13277889	XP_209918	K	R	KR	benign
rs13278059	NP_056235	S	R	SR	benign
rs13278958	NP_000016	P	T	PT	possibly damaging
rs13278959	XP_373243	E	K	EK	benign
rs13279787	XP_372035	S	N	SN	benign
rs13280248	NP_631906	S	P	SP	possibly damaging
rs13280377	NP_003738	E	K	EK	benign
rs13280535	NP_689775	P	L	PL	probably damaging
rs13280993	NP_003059	T	I	TI	probably damaging
rs13282485	NP_054831	P	L	PL	probably damaging
rs13283110	NP_001798	Y	F	YF	benign
rs13283456	NP_945178	R	H	RH	benign
rs13283456	NP_079348	R	H	RH	benign
rs13284404	NP_006369	A	T	AT	benign
rs13284539	NP_995581	I	N	IN	possibly damaging
rs13285586	XP_088551	P	L	PL	probably damaging
rs13285778	NP_995581	I	F	IF	benign
rs13286264	NP_443098	A	G	AG	benign
rs13286264	NP_640329	A	G	AG	benign
rs13286264	NP_644669	A	G	AG	benign
rs13286304	NP_078994	T	M	TM	benign
rs13287599	NP_060719	F	L	FL	possibly damaging
rs13287734	NP_060719	A	P	AP	benign
rs13287876	NP_060719	A	V	AV	benign
rs13288833	NP_055876	V	G	VG	probably damaging
rs13289566	NP_060046	G	E	GE	benign
rs13290391	NP_060132	F	L	FL	benign
rs13291847	NP_001384	S	Y	SY	benign
rs13292106	XP_114685	D	H	DH	possibly damaging
rs13292341	NP_775960	Q	H	QH	benign
rs13292348	NP_775960	S	I	SI	benign
rs13293047	NP_001384	E	Q	EQ	benign
rs13294000	NP_063945	K	R	KR	benign
rs13294031	NP_076918	L	H	LH	probably damaging
rs13294031	NP_008831	L	H	LH	probably damaging

rs13294411	XP_210755	L	V	LV	benign
rs13294424	XP_036708	D	E	DE	benign
rs13294485	NP_076918	L	F	LF	benign
rs13294485	NP_008831	L	F	LF	benign
rs13294702	XP_499132	T	K	TK	benign
rs13295305	NP_872441	R	K	RK	benign
rs13296760	NP_073616	D	Y	DY	probably damaging
rs13297924	NP_001384	D	V	DV	possibly damaging
rs13298061	NP_001384	T	P	TP	benign
rs13298220	NP_612206	S	W	SW	probably damaging
rs13298307	NP_006280	L	F	LF	benign
rs13298317	NP_006280	A	V	AV	benign
rs13298638	NP_008936	T	A	TA	possibly damaging
rs13298768	NP_659402	E	G	EG	possibly damaging
rs13298809	NP_006079	Q	P	QP	probably damaging
rs13298980	NP_006327	F	L	FL	possibly damaging
rs13299596	NP_758516	A	T	AT	benign
rs13299619	NP_758516	A	T	AT	benign
rs13299619	NP_036568	A	T	AT	benign
rs13299702	NP_006327	T	I	TI	benign
rs13299765	NP_758516	D	N	DN	benign
rs13299765	NP_036568	D	N	DN	benign
rs13300770	XP_499132	E	A	EA	benign
rs13302050	NP_005824	T	P	TP	possibly damaging
rs13302059	NP_005824	P	A	PA	probably damaging
rs13302273	NP_005824	D	N	DN	benign
rs13302347	NP_940871	D	E	DE	benign
rs13302671	XP_291315	H	Q	HQ	benign
rs13302727	NP_001689	A	G	AG	benign
rs13302733	NP_001689	A	G	AG	benign
rs13303083	XP_372193	S	I	SI	benign
rs13305975	NP_061822	R	H	RH	possibly damaging
rs13305979	NP_005298	D	H	DH	possibly damaging
rs13305979	NP_892027	D	H	DH	possibly damaging
rs13305987	NP_006163	A	V	AV	benign
rs13305993	NP_077720	G	R	GR	possibly damaging
rs13305994	NP_077720	A	E	AE	benign
rs13306001	NP_000897	R	L	RL	probably damaging
rs13306014	NP_942013	N	S	NS	benign
rs13306020	NP_000948	T	M	TM	benign
rs13306020	NP_942005	T	M	TM	benign
rs13306020	NP_942008	T	M	TM	benign
rs13306020	NP_942009	T	M	TM	benign
rs13306020	NP_942010	T	M	TM	benign
rs13306020	NP_942011	T	M	TM	benign
rs13306020	NP_942006	T	M	TM	benign

rs13306020	NP_942013	T	M	TM	benign
rs13306023	NP_000952	M	T	MT	benign
rs13306030	NP_000952	K	T	KT	benign
rs13306039	NP_001034	A	P	AP	benign
rs13306041	NP_001034	R	Q	RQ	possibly damaging
rs13306050	NP_001052	P	L	PL	probably damaging
rs13306052	NP_001052	V	M	VM	benign
rs13306052	NP_112246	V	M	VM	benign
rs13306055	NP_001052	R	K	RK	benign
rs13306055	NP_112246	R	K	RK	benign
rs13306057	NP_009048	G	S	GS	benign
rs13306060	NP_003292	I	M	IM	benign
rs13306068	NP_005493	I	V	IV	benign
rs13306072	NP_005493	V	I	VI	benign
rs13306073	NP_005493	V	I	VI	benign
rs13306085	NP_000780	R	Q	RQ	benign
rs13306087	NP_000780	A	T	AT	benign
rs13306091	NP_000780	M	T	MT	possibly damaging
rs13306091	NP_690044	M	T	MT	probably damaging
rs13306091	NP_690043	M	T	MT	probably damaging
rs13306092	NP_054909	R	H	RH	benign
rs13306092	NP_054908	R	H	RH	possibly damaging
rs13306092	NP_789771	R	H	RH	possibly damaging
rs13306092	NP_001110	R	H	RH	possibly damaging
rs13306093	NP_054908	P	L	PL	benign
rs13306093	NP_001110	P	L	PL	benign
rs13306143	NP_000672	G	S	GS	benign
rs13306151	NP_000016	P	L	PL	benign
rs13306155	NP_000020	T	P	TP	possibly damaging
rs13306168	NP_001131	Y	H	YH	possibly damaging
rs13306187	NP_000375	R	H	RH	benign
rs13306191	NP_000375	E	K	EK	benign
rs13306192	NP_000375	F	V	FV	possibly damaging
rs13306194	NP_000375	R	W	RW	possibly damaging
rs13306198	NP_000375	T	M	TM	benign
rs13306204	NP_000375	N	H	NH	benign
rs13306206	NP_000375	P	S	PS	possibly damaging
rs13306224	NP_001732	Q	P	QP	possibly damaging
rs13306251	NP_001827	T	M	TM	probably damaging
rs13306252	NP_001827	R	H	RH	benign
rs13306279	NP_009294	P	L	PL	probably damaging
rs13306281	NP_009294	V	M	VM	benign
rs13306287	NP_006578	Q	R	QR	benign
rs13306293	NP_000092	A	T	AT	benign
rs13306297	NP_000092	R	Q	RQ	benign
rs13306300	NP_000388	G	S	GS	benign

rs13306301	NP_000778	D	N	DN	benign
rs13306303	NP_000778	T	M	TM	possibly damaging
rs13306306	NP_000778	R	W	RW	probably damaging
rs13306309	NP_000785	A	T	AT	benign
rs13306333	NP_000121	H	R	HR	possibly damaging
rs13306334	NP_000121	L	F	LF	benign
rs13306350	NP_000121	S	R	SR	benign
rs13306364	NP_002017	I	L	IL	benign
rs13306364	NP_997639	I	L	IL	benign
rs13306364	NP_997640	I	L	IL	benign
rs13306364	NP_997641	I	L	IL	benign
rs13306364	NP_997643	I	L	IL	benign
rs13306364	NP_997647	I	L	IL	benign
rs13306372	NP_002017	G	S	GS	possibly damaging
rs13306372	NP_473375	G	S	GS	possibly damaging
rs13306372	NP_997639	G	S	GS	possibly damaging
rs13306372	NP_997640	G	S	GS	possibly damaging
rs13306372	NP_997641	G	S	GS	possibly damaging
rs13306372	NP_997643	G	S	GS	possibly damaging
rs13306372	NP_997647	G	S	GS	possibly damaging
rs13306395	NP_000155	E	Q	EQ	benign
rs13306398	NP_000155	G	C	GC	probably damaging
rs13306399	NP_000155	C	S	CS	probably damaging
rs13306402	NP_000155	R	W	RW	probably damaging
rs13306403	NP_000155	R	L	RL	possibly damaging
rs13306411	NP_000164	L	F	LF	benign
rs13306418	NP_002094	M	V	MV	benign
rs13306425	NP_000187	R	H	RH	possibly damaging
rs13306430	NP_000192	R	Q	RQ	benign
rs13306432	NP_000864	Q	L	QL	probably damaging
rs13306435	NP_000591	D	E	DE	benign
rs13306449	NP_000199	Y	C	YC	probably damaging
rs13306466	NP_005535	P	A	PA	probably damaging
rs13306467	NP_005535	P	R	PR	probably damaging
rs13306469	NP_005535	G	S	GS	benign
rs13306470	NP_005535	R	L	RL	probably damaging
rs13306473	NP_000410	V	M	VM	benign
rs13306476	NP_000203	H	P	HP	possibly damaging
rs13306487	NP_000203	R	Q	RQ	benign
rs13306505	NP_000518	A	V	AV	possibly damaging
rs13306510	NP_000518	P	S	PS	benign
rs13306526	NP_002294	I	V	IV	benign
rs13306543	NP_002436	T	I	TI	possibly damaging
rs13306543	NP_619730	T	I	TI	possibly damaging
rs13306543	NP_619729	T	I	TI	possibly damaging
rs13306549	NP_002436	E	K	EK	benign

rs13306549	NP_619730	E	K	EK	benign
rs13306549	NP_619729	E	K	EK	benign
rs13306575	NP_000424	R	W	RW	possibly damaging
rs13306581	NP_000424	T	M	TM	possibly damaging
rs13306591	NP_000892	R	H	RH	benign
rs13306592	NP_000892	F	Y	FY	benign
rs13306603	NP_005613	D	H	DH	probably damaging
rs13306603	NP_973729	D	H	DH	probably damaging
rs13306608	NP_005613	H	P	HP	probably damaging
rs13306615	NP_001029	A	T	AT	possibly damaging
rs13306616	NP_001029	P	H	PH	possibly damaging
rs13306627	NP_000327	R	Q	RQ	benign
rs13306629	NP_000327	S	N	SN	benign
rs13306644	NP_002969	E	Q	EQ	benign
rs13306651	NP_002969	A	T	AT	benign
rs13306664	NP_001030	I	F	IF	benign
rs13306668	NP_000330	R	H	RH	possibly damaging
rs13306698	NP_000437	R	G	RG	probably damaging
rs13306699	NP_000296	S	F	SF	benign
rs13306731	NP_003092	R	Q	RQ	benign
rs13306744	NP_004167	L	V	LV	benign
rs13306754	NP_006507	R	L	RL	probably damaging
rs13306763	NP_001033	S	A	SA	possibly damaging
rs13306771	NP_003030	V	M	VM	benign
rs13306774	NP_000333	R	C	RC	probably damaging
rs13306776	NP_000333	R	H	RH	probably damaging
rs13306787	NP_000333	E	K	EK	benign
rs13306788	NP_000333	E	D	ED	benign
rs13306799	NP_006206	S	L	SL	benign
rs13306846	NP_000593	Y	C	YC	probably damaging
rs13306921	NP_076972	S	R	SR	possibly damaging
rs13307048	XP_372002	W	L	WL	benign
rs13308178	XP_498189	G	R	GR	probably damaging
rs13308235	XP_376658	S	P	SP	possibly damaging
rs13308796	XP_499090	A	D	AD	possibly damaging
rs13308800	XP_499090	R	G	RG	possibly damaging
rs13308841	XP_499090	A	V	AV	benign
rs13308996	XP_498195	H	L	HL	benign
rs13309158	NP_006707	I	L	IL	benign
rs13309268	NP_006707	R	Q	RQ	benign
rs13309334	NP_000836	R	Q	RQ	benign
rs13309462	XP_088118	E	K	EK	benign
rs13309509	XP_088142	K	N	KN	benign
rs13309557	NP_055319	P	L	PL	probably damaging
rs13309561	NP_006707	L	P	LP	possibly damaging
rs13309640	NP_004280	T	S	TS	benign

rs13309648	NP_004280	Q	R	QR	benign
rs13309707	NP_004280	V	I	VI	benign
rs13310227	XP_166571	I	L	IL	benign
rs13310406	XP_498188	G	V	GV	probably damaging
rs13310840	NP_997056	R	P	RP	possibly damaging
rs13310887	NP_006370	T	P	TP	possibly damaging
rs13311116	NP_057122	T	I	TI	probably damaging
rs13311251	NP_878247	Q	H	QH	possibly damaging
rs13311709	NP_057122	K	R	KR	benign
rs13311752	NP_057562	A	D	AD	benign
rs13311799	XP_496849	A	D	AD	possibly damaging
rs13312444	NP_076972	S	T	ST	benign
rs13312555	XP_498195	P	Q	PQ	benign
rs13312558	XP_498195	S	L	SL	benign
rs13312582	XP_499090	L	Q	LQ	possibly damaging
rs13312633	NP_006179	Q	R	QR	possibly damaging
rs13312739	NP_000363	P	T	PT	possibly damaging
rs13312740	NP_000363	Q	R	QR	benign
rs13312741	NP_000363	D	Y	DY	benign
rs13312744	NP_000363	F	S	FS	probably damaging
rs13312793	NP_065689	P	S	PS	probably damaging
rs13312858	NP_002476	K	N	KN	benign
rs13313088	NP_060335	P	R	PR	probably damaging
rs13313279	NP_954872	V	G	VG	possibly damaging
rs13313279	NP_061146	V	G	VG	possibly damaging
rs13315504	NP_003839	V	L	VL	benign
rs13315830	NP_653238	G	A	GA	benign
rs13318110	NP_003839	A	T	AT	benign
rs13319149	NP_886553	A	T	AT	benign
rs13319149	NP_937884	A	T	AT	benign
rs13319149	NP_937887	A	T	AT	benign
rs13320167	XP_497949	D	H	DH	benign
rs13320393	XP_047357	F	L	FL	possibly damaging
rs13320485	NP_006144	A	V	AV	benign
rs13321615	NP_001448	K	Q	KQ	benign
rs13321689	XP_496642	T	A	TA	benign
rs13322090	NP_001870	V	A	VA	possibly damaging
rs13324082	NP_940865	S	R	SR	benign
rs13324142	NP_599025	V	M	VM	benign
rs13324142	NP_602298	V	M	VM	benign
rs13324142	NP_075062	V	M	VM	benign
rs13324468	NP_872395	A	T	AT	benign
rs13324635	XP_045290	V	M	VM	benign
rs13326359	NP_640338	A	S	AS	benign
rs13326552	NP_003232	R	H	RH	benign
rs13327031	NP_060169	G	R	GR	possibly damaging

rs13327092	NP_004177	M	L	ML	benign
rs13327456	XP_371614	M	V	MV	possibly damaging
rs13328658	NP_059992	T	P	TP	possibly damaging
rs13328658	NP_150643	T	P	TP	possibly damaging
rs13328658	NP_004622	T	P	TP	possibly damaging
rs13328900	NP_055022	V	A	VA	benign
rs13329897	NP_694570	S	L	SL	benign
rs13330140	NP_653206	E	K	EK	benign
rs13330462	NP_006101	G	D	GD	possibly damaging
rs13330686	NP_000237	S	L	SL	benign
rs13331152	XP_497481	R	C	RC	probably damaging
rs13331394	NP_006653	E	G	EG	possibly damaging
rs13332099	XP_058743	R	C	RC	benign
rs13332289	NP_570967	H	R	HR	probably damaging
rs13332291	NP_060009	T	M	TM	possibly damaging
rs13332460	XP_372607	A	S	AS	benign
rs13332463	NP_060676	C	S	CS	probably damaging
rs13332760	NP_001080	V	F	VF	possibly damaging
rs13333142	XP_375357	D	V	DV	probably damaging
rs13333553	NP_000287	W	R	WR	probably damaging
rs13333709	XP_370982	S	I	SI	probably damaging
rs13333805	XP_091331	S	F	SF	benign
rs13333991	XP_370924	L	F	LF	benign
rs13334011	NP_060210	V	I	VI	benign
rs13335256	NP_005144	Q	H	QH	possibly damaging
rs13336024	XP_497522	I	T	IT	benign
rs13336114	NP_005844	P	T	PT	benign
rs13336129	NP_002959	S	G	SG	benign
rs13336566	NP_000126	Q	R	QR	benign
rs13336804	NP_000237	V	A	VA	benign
rs13336969	NP_005844	Y	N	YN	probably damaging
rs13337123	NP_000287	E	D	ED	benign
rs13337258	NP_005643	L	V	LV	benign
rs13337278	NP_694971	S	T	ST	benign
rs13337489	NP_063953	C	S	CS	possibly damaging
rs13337489	NP_063956	C	S	CS	possibly damaging
rs13337489	NP_004987	C	S	CS	possibly damaging
rs13337489	NP_063915	C	S	CS	probably damaging
rs13337489	NP_063954	C	S	CS	probably damaging
rs13337489	NP_063955	C	S	CS	probably damaging
rs13337489	NP_063957	C	S	CS	probably damaging
rs13337837	XP_370924	P	L	PL	probably damaging
rs13338056	NP_055787	K	Q	KQ	benign
rs13338179	NP_620408	L	P	LP	possibly damaging
rs13338179	NP_001135	L	P	LP	possibly damaging
rs13338340	NP_958933	R	Q	RQ	benign

rs13338340	NP_958932	R	Q	RQ	benign
rs13338340	NP_005673	R	Q	RQ	benign
rs13338753	NP_659461	R	W	RW	probably damaging
rs13338940	NP_055959	G	A	GA	benign
rs13339342	NP_877417	R	H	RH	benign
rs13339649	NP_065769	I	T	IT	possibly damaging
rs13339902	NP_003872	G	E	GE	possibly damaging
rs13342692	NP_699188	D	G	DG	benign
rs13343419	XP_371155	R	Q	RQ	probably damaging
rs13343440	NP_006838	N	D	ND	benign
rs13343537	NP_005082	H	Q	HQ	benign
rs13343617	NP_002437	E	G	EG	benign
rs13343641	NP_653285	P	S	PS	benign
rs13343833	XP_371155	T	M	TM	benign
rs13344350	XP_058967	R	W	RW	probably damaging
rs13344462	XP_209163	E	K	EK	benign
rs13344609	XP_290867	F	L	FL	benign
rs13345394	NP_112163	A	T	AT	benign
rs13345452	XP_375563	T	M	TM	benign
rs13346484	NP_006855	G	R	GR	benign
rs13347042	NP_115799	S	N	SN	benign
rs13347174	NP_742111	G	V	GV	possibly damaging
rs13347174	NP_742110	G	V	GV	possibly damaging
rs13347177	NP_060622	E	K	EK	benign
rs13349455	XP_376318	R	K	RK	benign
rs13354726	NP_150377	A	V	AV	benign
rs13359508	NP_003109	N	S	NS	benign
rs13360277	NP_057374	C	R	CR	probably damaging
rs13361416	NP_001728	I	V	IV	benign
rs13362036	NP_078841	H	Y	HY	benign
rs13362755	NP_061978	E	G	EG	possibly damaging
rs13373934	NP_060959	S	P	SP	benign
rs13374146	NP_694986	V	A	VA	benign
rs13374149	NP_000060	R	H	RH	benign
rs13374337	NP_950245	I	T	IT	possibly damaging
rs13374920	NP_004275	E	A	EA	benign
rs13375609	NP_065867	V	I	VI	benign
rs13375701	NP_219486	K	M	KM	benign
rs13375867	NP_919268	A	V	AV	benign
rs13376095	XP_048104	E	D	ED	benign
rs13376115	NP_005790	A	P	AP	benign
rs13376115	NP_795352	A	P	AP	benign
rs13376115	NP_795353	A	P	AP	benign
rs13376441	XP_496406	R	S	RS	possibly damaging
rs13376679	NP_003026	H	R	HR	possibly damaging
rs13376770	XP_499190	Q	H	QH	benign



rs13377015	XP_499190	P	L	PL	probably damaging
rs13377147	XP_499190	R	G	RG	possibly damaging
rs13377895	XP_495906	L	M	LM	benign
rs13377933	NP_000776	S	N	SN	benign
rs13378079	NP_006592	S	F	SF	possibly damaging
rs13379165	NP_057735	I	R	IR	benign
rs13380059	NP_002411	R	H	RH	benign
rs13380232	NP_057278	G	R	GR	possibly damaging
rs13380233	XP_496026	P	L	PL	possibly damaging
rs13381457	NP_817123	A	T	AT	benign
rs13381670	NP_000262	T	M	TM	possibly damaging
rs13381941	NP_443143	T	M	TM	benign
rs13382105	NP_005806	I	V	IV	benign
rs13383830	NP_056532	N	D	ND	benign
rs13383900	NP_055312	A	V	AV	benign
rs13384181	XP_087225	P	S	PS	possibly damaging
rs13384912	NP_060220	P	T	PT	possibly damaging
rs13385919	NP_116168	R	Q	RQ	benign
rs13385963	NP_060733	L	P	LP	possibly damaging
rs13386425	NP_859064	V	I	VI	benign
rs13387262	NP_061949	A	V	AV	benign
rs13387430	XP_371569	S	N	SN	benign
rs13387859	NP_005292	V	M	VM	benign
rs13388310	NP_079540	D	N	DN	benign
rs13388394	NP_733772	T	A	TA	benign
rs13389423	NP_000456	S	F	SF	benign
rs13389670	NP_940885	R	K	RK	benign
rs13389745	NP_055962	I	V	IV	benign
rs13389902	NP_004481	S	I	SI	possibly damaging
rs13390084	NP_872327	M	V	MV	benign
rs13390456	NP_060621	S	Y	SY	benign
rs13391172	NP_055429	L	Q	LQ	possibly damaging
rs13391626	NP_004516	V	G	VG	possibly damaging
rs13391909	NP_005786	F	L	FL	benign
rs13392197	NP_115642	H	Y	HY	benign
rs13392701	NP_000514	N	K	NK	benign
rs13393659	NP_060422	A	V	AV	benign
rs13394919	NP_001956	Q	H	QH	benign
rs13395008	XP_497876	V	M	VM	benign
rs13395348	XP_372911	H	D	HD	probably damaging
rs13396066	NP_995319	V	A	VA	possibly damaging
rs13396449	NP_060628	L	I	LI	benign
rs13396788	XP_291015	M	R	MR	probably damaging
rs13397243	NP_065725	F	L	FL	possibly damaging
rs13397243	NP_803882	F	L	FL	probably damaging
rs13398588	XP_056455	E	G	EG	possibly damaging

rs13399067	NP_872578	S	L	SL	benign
rs13400205	NP_001025	V	G	VG	probably damaging
rs13400348	XP_372911	Q	H	QH	benign
rs13401215	NP_000989	M	R	MR	benign
rs13401480	NP_056472	R	C	RC	probably damaging
rs13401480	NP_775099	R	C	RC	probably damaging
rs13402131	NP_776183	R	G	RG	benign
rs13402964	NP_005680	R	Q	RQ	benign
rs13403488	XP_499216	E	Q	EQ	benign
rs13403699	XP_372911	M	L	ML	benign
rs13403700	XP_372911	E	D	ED	benign
rs13404469	NP_775816	L	F	LF	benign
rs13405631	NP_003845	I	T	IT	benign
rs13405977	NP_112734	K	R	KR	benign
rs13406336	NP_001096	A	G	AG	benign
rs13406898	NP_061966	T	I	TI	benign
rs13407355	NP_003485	L	V	LV	benign
rs13407858	XP_209509	V	A	VA	benign
rs13408366	NP_002798	R	K	RK	benign
rs13408961	NP_000021	A	T	AT	benign
rs13409059	XP_046570	E	K	EK	benign
rs13409084	NP_542402	G	S	GS	benign
rs13409340	NP_443134	E	V	EV	possibly damaging
rs13409362	XP_371595	G	D	GD	benign
rs13411304	XP_372924	S	L	SL	possibly damaging
rs13411834	NP_061720	P	L	PL	probably damaging
rs13412067	XP_371569	P	A	PA	probably damaging
rs13412604	XP_376062	L	W	LW	benign
rs13413205	NP_620072	G	V	GV	probably damaging
rs13413318	NP_004062	R	K	RK	benign
rs13413353	NP_004062	D	N	DN	benign
rs13414108	NP_055744	E	D	ED	benign
rs13414223	NP_061854	L	I	LI	benign
rs13414422	XP_051017	R	P	RP	possibly damaging
rs13414448	NP_056472	G	D	GD	possibly damaging
rs13414448	NP_775099	G	D	GD	possibly damaging
rs13415309	XP_050846	R	P	RP	possibly damaging
rs13415574	NP_061720	E	K	EK	benign
rs13415748	XP_208281	G	A	GA	possibly damaging
rs13415750	XP_208281	G	R	GR	probably damaging
rs13416414	NP_064602	A	V	AV	benign
rs13416540	NP_064602	L	F	LF	possibly damaging
rs13416916	NP_055429	L	M	LM	benign
rs13417812	NP_689737	E	A	EA	benign
rs13418352	XP_208281	A	P	AP	possibly damaging
rs13419020	NP_006742	R	W	RW	possibly damaging

rs13419085	NP_775919	N	S	NS	benign
rs13419724	XP_047707	T	S	TS	benign
rs13420186	NP_060696	E	D	ED	benign
rs13420401	NP_075408	L	M	LM	benign
rs13420401	NP_004073	L	M	LM	benign
rs13420841	NP_054900	D	N	DN	possibly damaging
rs13420911	NP_775100	M	I	MI	benign
rs13421084	XP_043492	G	S	GS	benign
rs13422744	XP_043492	L	I	LI	benign
rs13423662	NP_005270	A	V	AV	benign
rs13423837	NP_057336	E	K	EK	benign
rs13424243	NP_112734	G	R	GR	possibly damaging
rs13424350	NP_060903	E	K	EK	benign
rs13424518	XP_049952	S	F	SF	possibly damaging
rs13424561	NP_003951	E	K	EK	benign
rs13424615	NP_003870	L	I	LI	benign
rs13424709	NP_008851	Q	R	QR	possibly damaging
rs13424808	XP_371494	P	L	PL	benign
rs13425372	NP_114034	H	L	HL	probably damaging
rs13425372	NP_002365	H	L	HL	probably damaging
rs13427480	NP_004295	R	K	RK	benign
rs13427561	NP_659415	L	W	LW	benign
rs13427953	NP_084656	D	H	DH	probably damaging
rs13427953	NP_084657	D	H	DH	probably damaging
rs13427953	NP_005261	D	H	DH	probably damaging
rs13427953	NP_084655	D	H	DH	probably damaging
rs13428956	NP_036316	L	R	LR	possibly damaging
rs13431173	NP_000538	M	V	MV	benign
rs13431173	NP_783650	M	V	MV	benign
rs13431173	NP_783651	M	V	MV	benign
rs13431173	NP_783652	M	V	MV	benign
rs13431173	NP_783653	M	V	MV	benign
rs13431847	XP_291016	T	A	TA	benign
rs13433190	NP_443202	A	S	AS	benign
rs13433428	NP_003094	L	S	LS	benign
rs13433428	NP_115571	S	L	SL	benign
rs13433428	NP_478063	S	L	SL	benign
rs13433428	NP_620304	S	L	SL	benign
rs13433428	NP_620305	S	L	SL	benign
rs13434465	NP_003492	D	N	DN	benign
rs13436341	NP_066550	T	P	TP	possibly damaging
rs13436518	NP_002145	S	F	SF	possibly damaging
rs13436553	NP_056103	R	L	RL	possibly damaging
rs13437138	NP_003889	E	G	EG	benign
rs13437446	NP_996736	V	F	VF	benign
rs13437446	NP_996737	V	F	VF	benign

rs13437446	NP_996735	V	F	VF	benign
rs13437446	NP_006766	V	F	VF	benign
rs13437719	XP_374625	K	Q	KQ	benign
rs13437720	XP_374625	Q	R	QR	benign
rs13438232	NP_000074	P	L	PL	probably damaging
rs13440241	XP_035953	D	N	DN	benign
rs13440436	NP_996830	T	I	TI	benign
rs13440436	NP_996829	T	I	TI	benign
rs13440436	NP_066003	T	I	TI	benign
rs13440436	NP_996828	T	I	TI	benign
rs13440436	NP_996827	T	I	TI	benign
rs13440436	NP_079247	T	I	TI	benign
rs13445539	NP_055405	S	N	SN	benign
rs13447203	NP_003495	V	I	VI	benign
rs13447263	NP_003495	V	M	VM	benign
rs13447323	NP_005903	S	F	SF	possibly damaging
rs13447325	NP_005903	D	V	DV	benign
rs13447326	NP_005903	P	L	PL	probably damaging
rs13447327	NP_005903	S	R	SR	possibly damaging
rs13447328	NP_005903	V	I	VI	benign
rs13447329	NP_005903	T	M	TM	benign
rs13447331	NP_005903	S	L	SL	possibly damaging
rs13447332	NP_005903	R	W	RW	probably damaging
rs13447333	NP_005903	G	D	GD	possibly damaging
rs13447334	NP_005903	P	L	PL	probably damaging
rs13447335	NP_005903	A	E	AE	possibly damaging
rs13447336	NP_005903	G	S	GS	benign
rs13447337	NP_005903	I	T	IT	possibly damaging
rs13447459	NP_003494	Q	P	QP	benign
rs13447492	NP_003494	I	V	IV	benign
rs13447493	NP_003494	G	W	GW	probably damaging
rs13447503	NP_003494	F	L	FL	benign
rs13447539	NP_003494	K	R	KR	benign
rs16822531	NP_002115	R	Q	RQ	benign
rs16822531	NP_072049	R	Q	RQ	benign
rs16822531	NP_002116	R	Q	RQ	benign
rs16822554	NP_002115	Y	H	YH	benign
rs16822586	NP_061984	V	L	VL	benign
rs16822698	NP_002115	G	A	GA	benign
rs16822752	NP_002115	T	N	TN	benign
rs16822805	NP_002115	A	E	AE	benign
rs16822805	NP_002116	A	V	AV	benign
rs16822820	NP_002115	S	Y	SY	probably damaging
rs16822853	NP_072049	K	R	KR	benign
rs16822853	NP_002115	R	K	RK	benign
rs16822882	NP_002116	K	N	KN	benign

rs16822884	NP_002115	A	V	AV	benign
rs16822884	NP_002116	K	M	KM	possibly damaging
rs16822977	NP_002115	Q	H	QH	benign
rs16822977	NP_068818	Q	H	QH	benign
rs16822977	NP_072049	Q	H	QH	benign
rs16822977	NP_002116	Q	H	QH	benign
rs16822997	NP_002115	L	F	LF	benign
rs16823940	NP_060288	V	I	VI	benign
rs16823987	NP_543152	S	R	SR	benign
rs16823988	NP_005250	R	G	RG	probably damaging
rs16824179	NP_079355	V	M	VM	benign
rs16824215	NP_037490	V	M	VM	possibly damaging
rs16824283	XP_051221	S	R	SR	possibly damaging
rs16824588	XP_372193	I	V	IV	benign
rs16825359	NP_277025	A	V	AV	benign
rs16825359	NP_277022	A	V	AV	benign
rs16825377	NP_115640	R	Q	RQ	benign
rs16826069	NP_149033	I	V	IV	benign
rs16826072	NP_149033	T	I	TI	benign
rs16826711	XP_496394	Q	E	QE	benign
rs16827032	NP_653299	N	D	ND	benign
rs16827426	NP_000482	G	E	GE	probably damaging
rs16827493	NP_004541	P	A	PA	probably damaging
rs16827563	NP_078897	R	Q	RQ	benign
rs16827883	NP_079415	I	T	IT	benign
rs16828159	NP_002201	S	A	SA	benign
rs16828983	NP_001623	R	L	RL	probably damaging
rs16828983	NP_112603	R	L	RL	probably damaging
rs16829071	NP_689585	R	Q	RQ	benign
rs16829083	NP_689585	F	L	FL	benign
rs16829204	NP_067081	V	I	VI	benign
rs16829208	NP_005190	V	I	VI	benign
rs16829216	NP_005190	R	H	RH	possibly damaging
rs16829813	NP_038469	T	N	TN	benign
rs16830057	NP_060621	M	R	MR	benign
rs16830171	NP_004534	R	P	RP	probably damaging
rs16830236	NP_004534	N	S	NS	benign
rs16831080	XP_034717	H	R	HR	benign
rs16831482	NP_653300	M	R	MR	probably damaging
rs16831887	XP_371586	I	V	IV	benign
rs16832239	NP_695006	R	L	RL	benign
rs16832241	NP_695006	Q	E	QE	possibly damaging
rs16832242	NP_695006	Y	S	YS	probably damaging
rs16832245	NP_695006	Y	C	YC	probably damaging
rs16832247	NP_695006	A	V	AV	possibly damaging
rs16832507	NP_036354	W	R	WR	probably damaging

rs16832595	NP_003559	A	T	AT	benign
rs16832602	NP_003559	A	T	AT	benign
rs16832611	NP_003184	V	A	VA	benign
rs16832619	NP_003184	E	G	EG	benign
rs16832629	NP_689713	N	S	NS	benign
rs16832645	NP_787120	I	T	IT	benign
rs16833032	NP_002499	L	V	LV	benign
rs16833035	NP_055720	A	P	AP	benign
rs16833060	NP_002499	K	E	KE	benign
rs16833154	NP_002499	R	H	RH	benign
rs16833183	NP_002499	R	H	RH	benign
rs16833336	NP_065821	R	C	RC	benign
rs16833349	NP_065821	E	G	EG	possibly damaging
rs16833395	NP_064512	K	R	KR	benign
rs16833413	XP_291055	D	N	DN	benign
rs16833517	NP_078886	S	A	SA	benign
rs16833597	NP_872384	Y	S	YS	probably damaging
rs16833884	XP_375853	R	H	RH	benign
rs16833953	XP_375853	D	G	DG	possibly damaging
rs16834186	XP_114301	G	S	GS	benign
rs16834197	XP_379210	S	I	SI	benign
rs16834559	NP_005956	S	P	SP	benign
rs16834559	NP_444254	S	P	SP	benign
rs16834559	NP_444255	S	P	SP	benign
rs16834559	NP_444256	S	P	SP	benign
rs16834559	NP_444257	S	P	SP	benign
rs16834559	NP_444258	S	P	SP	benign
rs16834559	NP_444253	S	P	SP	benign
rs16834603	NP_658912	L	F	LF	benign
rs16834961	NP_004955	G	A	GA	benign
rs16834984	XP_114301	N	D	ND	benign
rs16835228	XP_060535	Q	E	QE	benign
rs16835229	XP_060535	R	W	RW	probably damaging
rs16835244	NP_443724	A	S	AS	benign
rs16835270	NP_001026	V	I	VI	benign
rs16835624	NP_006181	R	Q	RQ	possibly damaging
rs16835896	NP_008995	N	S	NS	benign
rs16836099	NP_443128	L	P	LP	possibly damaging
rs16836266	NP_079076	V	A	VA	benign
rs16836525	NP_006547	V	M	VM	benign
rs16836761	NP_000148	E	K	EK	benign
rs16836837	NP_060959	L	H	LH	possibly damaging
rs16836857	NP_870988	Q	P	QP	benign
rs16837438	NP_005110	V	A	VA	benign
rs16837497	XP_371661	P	L	PL	possibly damaging
rs16837598	NP_714928	A	V	AV	benign

rs16838016	NP_002230	K	R	KR	benign
rs16838413	XP_046570	H	Y	HY	benign
rs16838742	XP_092342	D	H	DH	possibly damaging
rs16838748	NP_112571	N	K	NK	benign
rs16838944	NP_001499	R	C	RC	benign
rs16839100	NP_110391	I	N	IN	possibly damaging
rs16839102	NP_000731	L	P	LP	benign
rs16839215	XP_497739	R	G	RG	probably damaging
rs16839218	XP_497739	G	D	GD	possibly damaging
rs16839277	NP_005885	D	E	DE	benign
rs16839333	XP_371352	H	D	HD	probably damaging
rs16840208	NP_563615	D	N	DN	benign
rs16840360	XP_060952	F	L	FL	possibly damaging
rs16840561	NP_002104	A	V	AV	benign
rs16840892	NP_065828	T	M	TM	possibly damaging
rs16840899	NP_065828	T	I	TI	benign
rs16840913	NP_055855	M	V	MV	benign
rs16840974	XP_060956	E	D	ED	benign
rs16840976	XP_060956	H	Y	HY	benign
rs16840980	XP_060956	G	D	GD	possibly damaging
rs16840991	XP_060956	S	L	SL	possibly damaging
rs16840995	XP_371573	E	D	ED	benign
rs16841001	XP_060956	R	C	RC	benign
rs16841009	XP_060956	C	R	CR	probably damaging
rs16841017	XP_060956	P	L	PL	probably damaging
rs16841018	NP_061720	I	V	IV	benign
rs16841038	XP_060956	R	Q	RQ	possibly damaging
rs16841042	XP_060956	H	R	HR	possibly damaging
rs16841045	XP_060956	K	R	KR	benign
rs16841081	NP_060606	S	F	SF	possibly damaging
rs16841199	NP_061720	N	K	NK	possibly damaging
rs16841658	NP_004783	N	D	ND	benign
rs16841771	NP_004279	Q	E	QE	benign
rs16841932	XP_496608	E	K	EK	benign
rs16842171	NP_001739	K	Q	KQ	benign
rs16842529	NP_116176	T	S	TS	benign
rs16842846	NP_065840	R	P	RP	possibly damaging
rs16843254	NP_573569	E	Q	EQ	benign
rs16843643	XP_376193	K	N	KN	benign
rs16843645	NP_871626	D	N	DN	benign
rs16843645	NP_002709	D	N	DN	benign
rs16843720	NP_061720	S	N	SN	benign
rs16843852	NP_689741	K	T	KT	possibly damaging
rs16844031	NP_060289	K	N	KN	benign
rs16844152	NP_002917	M	L	ML	benign
rs16844152	NP_937872	M	L	ML	benign

rs16844152	NP_940834	M	L	ML	benign
rs16844275	NP_073737	T	I	TI	possibly damaging
rs16844370	NP_001519	V	M	VM	benign
rs16844401	NP_001519	R	H	RH	possibly damaging
rs16844422	NP_775931	D	N	DN	benign
rs16844444	NP_714969	P	S	PS	probably damaging
rs16844460	NP_775931	R	H	RH	benign
rs16844464	NP_775931	P	S	PS	possibly damaging
rs16844470	NP_775931	R	W	RW	possibly damaging
rs16844498	NP_640333	M	V	MV	benign
rs16845107	NP_060808	K	N	KN	benign
rs16845385	NP_065101	T	M	TM	benign
rs16845759	NP_003801	D	E	DE	benign
rs16846208	NP_031374	S	P	SP	benign
rs16846447	NP_002212	S	R	SR	possibly damaging
rs16846616	NP_114161	G	E	GE	possibly damaging
rs16846624	NP_114161	N	S	NS	benign
rs16846673	NP_795345	E	G	EG	benign
rs16847812	XP_040527	D	N	DN	benign
rs16848290	NP_003276	I	T	IT	possibly damaging
rs16848521	XP_496601	R	H	RH	possibly damaging
rs16848846	XP_371352	R	C	RC	possibly damaging
rs16848861	XP_496446	H	R	HR	benign
rs16849342	NP_065176	Q	H	QH	benign
rs16849379	NP_065176	V	I	VI	benign
rs16849439	NP_001125	A	G	AG	benign
rs16849611	NP_057344	N	S	NS	benign
rs16849661	NP_061951	L	I	LI	benign
rs16849670	NP_009051	L	V	LV	benign
rs16849700	NP_000046	E	D	ED	benign
rs16849902	XP_087225	L	I	LI	benign
rs16850984	NP_066988	Y	C	YC	probably damaging
rs16851307	NP_079029	P	S	PS	probably damaging
rs16851435	XP_172341	S	A	SA	benign
rs16851681	NP_065186	R	K	RK	benign
rs16852652	NP_006606	E	K	EK	benign
rs16852683	NP_006606	M	I	MI	benign
rs16852741	NP_000456	S	G	SG	benign
rs16852767	NP_663735	S	R	SR	benign
rs16852957	NP_115502	E	G	EG	possibly damaging
rs16853149	NP_056472	E	G	EG	benign
rs16853149	NP_775099	E	G	EG	benign
rs16853238	NP_775099	W	C	WC	probably damaging
rs16853300	NP_775924	I	V	IV	benign
rs16853305	XP_496606	P	A	PA	probably damaging
rs16853306	XP_496606	Y	H	YH	benign



rs16853309	XP_496606	R	H	RH	possibly damaging
rs16853326	XP_496606	L	R	LR	benign
rs16853328	XP_496606	S	N	SN	benign
rs16853329	XP_496606	H	Y	HY	benign
rs16853330	XP_496606	V	I	VI	benign
rs16853331	XP_496606	A	T	AT	benign
rs16853344	XP_496607	E	Q	EQ	benign
rs16854277	XP_496351	E	K	EK	benign
rs16854411	XP_293529	K	E	KE	benign
rs16854557	XP_496348	Y	C	YC	probably damaging
rs16855035	NP_055244	S	W	SW	possibly damaging
rs16855059	NP_976310	F	S	FS	possibly damaging
rs16855164	NP_055625	T	A	TA	benign
rs16855211	XP_087225	H	Q	HQ	possibly damaging
rs16855216	XP_087225	Q	K	QK	benign
rs16855466	NP_002817	R	P	RP	possibly damaging
rs16855539	XP_371338	I	T	IT	possibly damaging
rs16856462	NP_443166	H	R	HR	benign
rs16856462	NP_599152	H	R	HR	benign
rs16856681	XP_086937	I	T	IT	benign
rs16858033	NP_060493	I	V	IV	benign
rs16858264	NP_072174	R	P	RP	probably damaging
rs16858376	NP_005805	K	N	KN	benign
rs16858473	XP_496667	T	I	TI	benign
rs16858632	NP_004944	Y	C	YC	probably damaging
rs16858632	NP_886553	Y	C	YC	probably damaging
rs16858632	NP_937884	Y	C	YC	probably damaging
rs16858632	NP_937885	Y	C	YC	probably damaging
rs16858632	NP_937887	Y	C	YC	probably damaging
rs16858780	NP_003732	M	L	ML	benign
rs16858808	NP_000625	R	C	RC	probably damaging
rs16858809	NP_000625	S	T	ST	possibly damaging
rs16858811	NP_000625	M	R	MR	benign
rs16859132	XP_293599	A	V	AV	benign
rs16859180	NP_056505	R	W	RW	probably damaging
rs16859190	NP_078892	I	V	IV	benign
rs16859487	NP_079119	M	T	MT	probably damaging
rs16859527	XP_291080	R	H	RH	benign
rs16859834	NP_000800	L	M	LM	benign
rs16859837	NP_000800	A	T	AT	benign
rs16859886	NP_060887	T	M	TM	benign
rs16859984	NP_835221	T	P	TP	probably damaging
rs16860238	NP_002284	E	K	EK	benign
rs16860530	NP_000201	I	V	IV	benign
rs16861032	NP_653319	L	V	LV	benign
rs16861381	NP_982279	D	G	DG	possibly damaging

rs16861394	NP_982279	S	F	SF	possibly damaging
rs16862215	NP_003102	T	A	TA	benign
rs16862234	XP_374057	C	R	CR	probably damaging
rs16862653	NP_056993	R	Q	RQ	benign
rs16862665	NP_036199	N	D	ND	possibly damaging
rs16862686	NP_219486	A	V	AV	benign
rs16863403	NP_849144	S	A	SA	benign
rs16863872	NP_079339	Y	H	YH	benign
rs16864310	NP_002012	R	Q	RQ	probably damaging
rs16864314	NP_002012	I	V	IV	benign
rs16864976	NP_003460	Y	H	YH	possibly damaging
rs16865491	XP_496430	V	E	VE	possibly damaging
rs16865568	XP_496418	Q	R	QR	possibly damaging
rs16866230	XP_371595	M	I	MI	benign
rs16866489	NP_596870	S	T	ST	benign
rs16866531	NP_596870	I	V	IV	benign
rs16866538	NP_596870	R	C	RC	possibly damaging
rs16866827	NP_620154	T	A	TA	benign
rs16867049	NP_003174	R	G	RG	benign
rs16867049	NP_068604	R	G	RG	benign
rs16867223	NP_005671	R	H	RH	possibly damaging
rs16867245	NP_005671	T	M	TM	benign
rs16867256	NP_055367	N	S	NS	benign
rs16867472	XP_497892	A	T	AT	benign
rs16867474	XP_497892	V	I	VI	benign
rs16867510	NP_006742	A	V	AV	benign
rs16867759	NP_002107	F	L	FL	benign
rs16867778	NP_002107	E	D	ED	benign
rs16867779	NP_002107	R	G	RG	benign
rs16868062	NP_005505	P	L	PL	benign
rs16868223	NP_002107	A	V	AV	benign
rs16868229	NP_002107	N	K	NK	benign
rs16868247	NP_002107	F	L	FL	benign
rs16868563	XP_380121	M	T	MT	benign
rs16868592	NP_002112	F	Y	FY	benign
rs16869301	XP_371832	P	S	PS	benign
rs16869407	XP_498113	K	E	KE	benign
rs16869581	XP_376658	P	A	PA	possibly damaging
rs16869924	NP_443196	S	G	SG	benign
rs16870005	NP_006772	A	T	AT	benign
rs16870204	NP_002116	K	T	KT	benign
rs16870206	NP_002116	K	E	KE	benign
rs16870720	NP_775760	D	V	DV	probably damaging
rs16870794	NP_114106	G	R	GR	benign
rs16870908	NP_061313	L	F	LF	benign
rs16871473	NP_000940	I	V	IV	benign

rs16871494	NP_038465	S	G	SG	benign
rs16871612	NP_008989	V	A	VA	benign
rs16872126	NP_003624	I	S	IS	possibly damaging
rs16872235	NP_733792	S	C	SC	possibly damaging
rs16872235	NP_115756	S	C	SC	possibly damaging
rs16872235	NP_733781	S	C	SC	possibly damaging
rs16872923	NP_003590	D	A	DA	probably damaging
rs16872923	NP_852001	D	A	DA	probably damaging
rs16873108	NP_066024	C	R	CR	probably damaging
rs16873741	NP_036214	A	V	AV	benign
rs16874289	XP_376503	S	A	SA	benign
rs16874323	XP_376518	E	Q	EQ	benign
rs16874326	NP_067547	Y	C	YC	probably damaging
rs16874464	XP_498000	L	I	LI	benign
rs16874698	NP_004224	R	Q	RQ	benign
rs16874954	NP_005075	V	F	VF	possibly damaging
rs16875054	NP_620687	A	T	AT	benign
rs16875099	NP_005579	T	M	TM	benign
rs16875122	NP_620687	R	L	RL	possibly damaging
rs16875312	NP_005573	N	K	NK	possibly damaging
rs16876070	NP_114399	E	G	EG	possibly damaging
rs16876589	NP_898861	G	D	GD	possibly damaging
rs16876589	NP_898862	G	D	GD	possibly damaging
rs16876657	NP_689618	H	R	HR	benign
rs16876719	XP_498277	E	Q	EQ	benign
rs16876805	NP_149117	I	V	IV	benign
rs16877591	NP_056002	I	V	IV	benign
rs16877836	NP_055548	T	N	TN	benign
rs16878472	NP_008840	L	W	LW	benign
rs16878555	NP_060787	S	G	SG	benign
rs16878594	NP_115656	P	A	PA	benign
rs16878823	XP_293923	E	A	EA	benign
rs16878867	XP_496746	R	H	RH	benign
rs16878935	XP_498010	R	H	RH	possibly damaging
rs16879050	XP_208333	T	I	TI	benign
rs16879215	XP_376372	E	K	EK	benign
rs16879259	NP_076996	E	G	EG	possibly damaging
rs16879281	NP_849145	G	A	GA	benign
rs16879334	NP_076915	P	R	PR	possibly damaging
rs16879334	NP_002445	P	R	PR	possibly damaging
rs16879355	NP_076915	A	V	AV	benign
rs16879355	NP_002445	A	V	AV	benign
rs16879427	NP_149117	Q	R	QR	benign
rs16879428	NP_803875	W	C	WC	probably damaging
rs16879498	NP_000315	V	I	VI	benign
rs16879534	NP_803875	Y	H	YH	benign

rs16879608	NP_862820	Q	K	QK	benign
rs16879608	NP_036513	Q	K	QK	benign
rs16879659	NP_803875	I	V	IV	benign
rs16879693	NP_803875	L	F	LF	benign
rs16879902	NP_005115	D	N	DN	possibly damaging
rs16880254	NP_000358	Y	C	YC	probably damaging
rs16880543	NP_004159	R	H	RH	benign
rs16880853	NP_116053	Y	H	YH	benign
rs16880994	NP_116053	L	F	LF	benign
rs16881810	NP_997225	Q	R	QR	benign
rs16881812	NP_997225	R	M	RM	possibly damaging
rs16881817	NP_997225	I	T	IT	possibly damaging
rs16881817	NP_036581	I	T	IT	possibly damaging
rs16881897	NP_004280	P	S	PS	benign
rs16881983	XP_376519	Q	E	QE	benign
rs16882024	NP_065199	R	W	RW	possibly damaging
rs16882046	NP_055426	I	T	IT	benign
rs16882099	NP_055426	H	D	HD	benign
rs16882924	NP_000837	P	S	PS	probably damaging
rs16882929	NP_714543	V	I	VI	benign
rs16883930	NP_036566	V	I	VI	benign
rs16883946	XP_373214	A	P	AP	benign
rs16885193	XP_293923	S	C	SC	benign
rs16885197	NP_055279	T	A	TA	benign
rs16888053	NP_065121	Q	R	QR	benign
rs16888722	NP_115710	H	R	HR	probably damaging
rs16888728	NP_115710	P	L	PL	possibly damaging
rs16889283	XP_496990	G	R	GR	possibly damaging
rs16889318	NP_699201	L	V	LV	benign
rs16889320	NP_114130	N	S	NS	benign
rs16889462	NP_776250	R	Q	RQ	benign
rs16890979	NP_064425	V	I	VI	benign
rs16890979	NP_001001290	V	I	VI	benign
rs16891583	NP_004189	N	S	NS	possibly damaging
rs16891646	NP_853509	P	S	PS	probably damaging
rs16891646	NP_008926	P	S	PS	probably damaging
rs16891982	NP_057264	L	F	LF	benign
rs16892095	XP_106386	E	A	EA	possibly damaging
rs16892134	XP_106386	V	I	VI	benign
rs16892150	NP_055139	R	Q	RQ	benign
rs16892150	NP_976316	R	Q	RQ	benign
rs16892767	NP_006200	S	L	SL	possibly damaging
rs16893137	NP_699196	N	S	NS	benign
rs16894243	XP_498064	C	G	CG	probably damaging
rs16894246	XP_498064	P	L	PL	probably damaging
rs16894812	NP_061165	K	E	KE	benign

rs16894898	NP_039225	Y	C	YC	possibly damaging
rs16894945	NP_060224	K	N	KN	benign
rs16895067	XP_498081	D	G	DG	possibly damaging
rs16895070	XP_498081	C	R	CR	probably damaging
rs16895365	XP_039169	N	S	NS	benign
rs16895411	XP_039169	R	C	RC	possibly damaging
rs16895970	NP_002107	F	L	FL	benign
rs16895981	NP_002107	G	R	GR	benign
rs16896009	NP_002107	K	Q	KQ	benign
rs16896012	NP_002107	R	H	RH	benign
rs16896015	NP_002107	H	L	HL	probably damaging
rs16896023	NP_002107	L	W	LW	benign
rs16896035	NP_002107	E	K	EK	benign
rs16896254	NP_005505	S	P	SP	benign
rs16896264	NP_005505	Q	L	QL	benign
rs16896268	NP_002107	R	T	RT	probably damaging
rs16896284	NP_002107	R	G	RG	benign
rs16896288	NP_005505	Y	C	YC	benign
rs16896294	NP_002107	D	E	DE	benign
rs16896595	NP_002107	T	S	TS	benign
rs16896605	NP_005505	H	Y	HY	benign
rs16896610	NP_005505	D	N	DN	benign
rs16896617	NP_002107	N	K	NK	benign
rs16896629	NP_689945	V	I	VI	benign
rs16896872	NP_002107	R	Q	RQ	benign
rs16896879	NP_002107	D	Y	DY	benign
rs16896881	NP_005505	Y	S	YS	benign
rs16897482	NP_976034	L	P	LP	benign
rs16897482	NP_002692	L	P	LP	possibly damaging
rs16897483	NP_005922	E	K	EK	benign
rs16897557	XP_496799	W	C	WC	probably damaging
rs16897603	XP_498092	E	K	EK	benign
rs16897725	NP_002705	R	P	RP	possibly damaging
rs16897895	NP_002115	R	Q	RQ	benign
rs16897895	NP_068818	R	Q	RQ	benign
rs16897895	NP_072049	R	Q	RQ	benign
rs16897967	NP_663622	R	H	RH	possibly damaging
rs16898023	NP_663622	V	F	VF	possibly damaging
rs16898273	XP_371809	V	A	VA	benign
rs16898295	XP_497999	T	K	TK	benign
rs16898467	XP_209656	S	N	SN	benign
rs16898691	XP_294387	G	R	GR	benign
rs16898693	XP_294387	G	S	GS	benign
rs16898969	XP_379323	R	G	RG	possibly damaging
rs16898972	XP_379323	R	K	RK	benign
rs16899484	XP_043989	V	F	VF	benign

rs16899606	NP_005922	T	I	TI	benign
rs16899974	NP_114106	V	L	VL	benign
rs16900023	NP_079535	P	S	PS	benign
rs16900023	NP_751898	P	S	PS	benign
rs16900023	NP_751897	P	S	PS	benign
rs16900532	NP_004376	N	K	NK	possibly damaging
rs16900603	NP_079471	E	D	ED	benign
rs16900991	NP_660346	I	V	IV	benign
rs16901277	NP_060826	D	E	DE	benign
rs16901311	NP_005609	V	M	VM	benign
rs16902381	NP_079143	R	K	RK	benign
rs16902381	NP_653323	R	K	RK	benign
rs16902872	NP_659437	A	V	AV	benign
rs16902880	NP_001360	M	V	MV	benign
rs16902886	NP_001360	S	G	SG	benign
rs16903367	NP_009049	D	E	DE	benign
rs16903425	NP_597677	S	A	SA	benign
rs16903474	NP_009049	A	T	AT	benign
rs16903518	NP_075561	P	L	PL	probably damaging
rs16903574	NP_061891	F	L	FL	benign
rs16903965	NP_689616	T	M	TM	possibly damaging
rs16903965	NP_877950	T	M	TM	possibly damaging
rs16905649	NP_002834	V	I	VI	benign
rs16905753	XP_372376	P	L	PL	probably damaging
rs16905785	XP_372370	M	T	MT	benign
rs16905921	XP_497217	G	A	GA	possibly damaging
rs16905996	NP_659460	K	T	KT	benign
rs16906079	NP_612566	T	A	TA	benign
rs16906079	NP_612564	T	A	TA	benign
rs16906089	NP_443723	K	N	KN	benign
rs16906628	NP_004202	G	R	GR	possibly damaging
rs16906862	NP_003168	R	H	RH	possibly damaging
rs16907865	NP_002408	N	S	NS	benign
rs16907980	NP_006682	T	I	TI	possibly damaging
rs16909422	XP_171528	F	Y	FY	possibly damaging
rs16909440	XP_061610	N	S	NS	benign
rs16909677	NP_689635	L	Q	LQ	benign
rs16909677	NP_818931	L	Q	LQ	possibly damaging
rs16909747	NP_060719	R	S	RS	benign
rs16909873	NP_000255	P	L	PL	possibly damaging
rs16910239	NP_001726	E	D	ED	benign
rs16910245	NP_001726	V	A	VA	benign
rs16910527	NP_922939	D	E	DE	benign
rs16910527	NP_922940	D	E	DE	benign
rs16910527	NP_922941	I	S	IS	benign
rs16910527	NP_072092	I	S	IS	benign

rs16910527	NP_922938	I	S	IS	possibly damaging
rs16911075	NP_003662	I	T	IT	probably damaging
rs16911075	NP_201588	I	T	IT	probably damaging
rs16911075	NP_201589	I	T	IT	probably damaging
rs16911114	NP_003662	I	T	IT	possibly damaging
rs16911114	NP_201588	I	T	IT	possibly damaging
rs16911114	NP_201589	I	T	IT	possibly damaging
rs16911679	NP_116212	V	I	VI	benign
rs16911681	NP_116212	R	Q	RQ	benign
rs16912227	NP_000175	I	T	IT	possibly damaging
rs16912227	NP_000550	T	I	TI	possibly damaging
rs16912250	NP_599028	I	V	IV	benign
rs16912250	NP_439897	I	V	IV	benign
rs16912304	XP_061890	R	S	RS	benign
rs16912304	XP_495891	S	R	SR	benign
rs16912726	NP_004477	R	G	RG	probably damaging
rs16912727	NP_065091	N	S	NS	benign
rs16912729	XP_294590	S	R	SR	possibly damaging
rs16912752	NP_004477	M	V	MV	possibly damaging
rs16913225	XP_372347	Q	R	QR	benign
rs16913653	NP_003631	G	S	GS	possibly damaging
rs16913734	NP_003789	T	S	TS	benign
rs16913755	NP_060891	Q	R	QR	possibly damaging
rs16913874	NP_473373	N	S	NS	benign
rs16914094	XP_372368	F	L	FL	benign
rs16914400	XP_290482	K	N	KN	benign
rs16914400	XP_495824	N	K	NK	benign
rs16914640	NP_037401	N	K	NK	benign
rs16914749	XP_084514	D	V	DV	possibly damaging
rs16914898	XP_208060	F	L	FL	possibly damaging
rs16915026	NP_085128	M	I	MI	benign
rs16915863	XP_495919	H	P	HP	probably damaging
rs16915907	XP_495912	N	D	ND	benign
rs16916091	XP_036708	T	S	TS	benign
rs16916632	NP_061971	R	Q	RQ	benign
rs16917089	NP_808219	V	A	VA	benign
rs16917397	XP_495863	S	R	SR	benign
rs16917409	XP_061864	I	V	IV	benign
rs16917454	NP_149040	A	V	AV	benign
rs16917480	XP_084514	C	Y	CY	probably damaging
rs16917481	XP_084514	T	A	TA	benign
rs16918105	XP_061871	N	S	NS	benign
rs16918128	NP_001846	A	T	AT	benign
rs16918393	NP_722516	I	V	IV	benign
rs16918468	XP_294590	N	S	NS	benign
rs16919049	NP_997069	L	F	LF	benign

rs16919359	XP_055095	A	V	AV	benign
rs16919452	NP_078997	I	V	IV	benign
rs16919579	NP_054737	R	W	RW	possibly damaging
rs16919654	NP_690049	P	L	PL	possibly damaging
rs16919654	NP_690050	P	L	PL	probably damaging
rs16919923	NP_006321	P	S	PS	benign
rs16920463	XP_088367	Y	C	YC	benign
rs16920614	NP_006260	Y	C	YC	probably damaging
rs16920621	NP_006260	V	L	VL	benign
rs16921449	NP_004161	F	Y	FY	benign
rs16921613	NP_060455	A	T	AT	benign
rs16922259	NP_079107	V	I	VI	benign
rs16922864	NP_775104	E	G	EG	possibly damaging
rs16923590	NP_003571	Y	C	YC	probably damaging
rs16923785	NP_060863	H	Q	HQ	probably damaging
rs16924002	NP_068776	D	E	DE	benign
rs16924038	NP_068776	A	T	AT	benign
rs16924241	NP_254274	I	M	IM	benign
rs16924906	NP_065875	E	K	EK	benign
rs16925541	NP_085128	N	S	NS	benign
rs16925868	NP_076411	T	A	TA	benign
rs16925882	NP_689922	P	R	PR	possibly damaging
rs16926210	XP_034640	Y	F	YF	possibly damaging
rs16926732	XP_372369	D	G	DG	benign
rs16926948	NP_937828	G	E	GE	possibly damaging
rs16927037	NP_067063	G	V	GV	benign
rs16927482	NP_056245	A	T	AT	benign
rs16927649	NP_872293	R	Q	RQ	benign
rs16927965	NP_005824	H	Y	HY	possibly damaging
rs16929093	NP_000527	E	G	EG	benign
rs16929354	NP_071407	I	M	IM	benign
rs16929374	NP_000541	R	H	RH	possibly damaging
rs16930134	NP_003820	T	A	TA	benign
rs16930304	NP_036259	S	F	SF	benign
rs16930426	NP_002531	T	S	TS	benign
rs16930845	NP_116198	V	A	VA	benign
rs16930872	NP_004913	L	P	LP	possibly damaging
rs16930872	NP_940999	L	P	LP	possibly damaging
rs16930888	NP_775811	A	V	AV	benign
rs16930982	XP_372356	R	H	RH	benign
rs16931179	NP_054706	A	V	AV	benign
rs16931292	XP_372357	R	P	RP	possibly damaging
rs16931448	XP_372083	R	S	RS	benign
rs16931549	NP_036276	A	V	AV	benign
rs16931555	NP_036276	Q	H	QH	possibly damaging
rs16931745	NP_005109	F	L	FL	benign



rs16931996	NP_057448	R	G	RG	probably damaging
rs16932004	NP_057448	R	Q	RQ	benign
rs16932374	NP_000543	M	I	MI	possibly damaging
rs16932503	NP_703146	T	K	TK	possibly damaging
rs16932768	NP_001264	I	V	IV	benign
rs16932783	XP_372447	S	L	SL	possibly damaging
rs16932835	NP_002225	R	G	RG	probably damaging
rs16932912	NP_066934	V	I	VI	benign
rs16932941	NP_002066	G	S	GS	possibly damaging
rs16933054	NP_066280	I	T	IT	possibly damaging
rs16933088	NP_775789	M	K	MK	benign
rs16933182	NP_079066	H	R	HR	benign
rs16933591	NP_937831	V	I	VI	benign
rs16933591	NP_937829	V	I	VI	benign
rs16933591	NP_937830	V	I	VI	benign
rs16933591	NP_054729	V	I	VI	benign
rs16933844	NP_569073	N	K	NK	benign
rs16933844	NP_067629	N	K	NK	benign
rs16934203	NP_071935	A	V	AV	benign
rs16934950	NP_954630	E	K	EK	benign
rs16934951	NP_954630	E	K	EK	benign
rs16934999	NP_473373	F	L	FL	benign
rs16935000	NP_473372	R	C	RC	possibly damaging
rs16935002	NP_473373	S	L	SL	possibly damaging
rs16935065	NP_443190	A	T	AT	benign
rs16935246	NP_954630	K	R	KR	benign
rs16935295	NP_060919	M	I	MI	possibly damaging
rs16935295	NP_065918	M	I	MI	probably damaging
rs16935326	NP_062565	A	V	AV	benign
rs16935436	NP_002292	E	Q	EQ	benign
rs16935436	NP_059144	E	Q	EQ	benign
rs16935457	NP_057609	N	K	NK	benign
rs16935693	XP_497012	V	M	VM	probably damaging
rs16937251	NP_660093	Q	H	QH	possibly damaging
rs16937251	NP_892009	Q	H	QH	possibly damaging
rs16937417	NP_443723	T	A	TA	benign
rs16937432	NP_443723	R	C	RC	benign
rs16937479	NP_060729	N	H	NH	benign
rs16937932	NP_982272	R	W	RW	probably damaging
rs16937976	NP_015628	T	R	TR	benign
rs16938289	NP_067091	M	V	MV	benign
rs16938289	NP_066546	V	M	VM	benign
rs16938293	NP_067091	N	H	NH	benign
rs16938324	NP_066546	T	I	TI	benign
rs16938368	XP_171424	R	Q	RQ	benign
rs16938507	NP_004761	E	G	EG	benign

rs16938603	NP_003111	F	C	FC	probably damaging
rs16938828	NP_065698	D	H	DH	benign
rs16938829	NP_065698	T	M	TM	benign
rs16939380	NP_078997	V	G	VG	possibly damaging
rs16939713	NP_002046	D	N	DN	possibly damaging
rs16939743	NP_787954	I	T	IT	benign
rs16939752	NP_787954	C	R	CR	possibly damaging
rs16939879	NP_078998	Q	R	QR	benign
rs16939904	NP_116052	H	R	HR	benign
rs16940050	NP_000327	G	V	GV	benign
rs16940094	NP_705831	T	M	TM	benign
rs16940488	NP_803564	N	T	NT	benign
rs16940488	NP_001045	N	T	NT	benign
rs16940600	NP_057100	A	V	AV	benign
rs16940655	NP_004373	A	V	AV	benign
rs16940680	NP_115676	E	K	EK	benign
rs16940694	NP_787078	T	I	TI	benign
rs16940732	NP_036223	K	M	KM	possibly damaging
rs16940949	XP_370968	R	H	RH	benign
rs16941036	NP_004692	M	T	MT	probably damaging
rs16941623	NP_660330	W	R	WR	probably damaging
rs16941677	NP_002467	N	Y	NY	probably damaging
rs16941860	NP_079229	L	F	LF	benign
rs16941888	NP_071446	H	Y	HY	benign
rs16941904	NP_789775	R	W	RW	benign
rs16941904	NP_073750	R	W	RW	benign
rs16941907	NP_789775	Q	H	QH	benign
rs16941907	NP_073750	Q	H	QH	benign
rs16942044	NP_000961	K	E	KE	benign
rs16942219	XP_290809	I	V	IV	benign
rs16942374	NP_006178	R	H	RH	benign
rs16942445	NP_001288	A	S	AS	benign
rs16942601	NP_116237	S	W	SW	possibly damaging
rs16942615	NP_055914	S	P	SP	benign
rs16942745	NP_079235	R	C	RC	possibly damaging
rs16942793	XP_496272	V	M	VM	benign
rs16942794	XP_496272	Q	K	QK	benign
rs16942798	XP_496272	V	F	VF	possibly damaging
rs16943025	NP_076968	N	D	ND	benign
rs16943298	NP_002461	T	A	TA	benign
rs16943373	NP_002463	A	E	AE	probably damaging
rs16943379	NP_057280	R	G	RG	probably damaging
rs16943441	NP_060003	A	D	AD	probably damaging
rs16943490	NP_006092	S	A	SA	benign
rs16943596	NP_001141	S	N	SN	benign
rs16943977	NP_114437	A	T	AT	benign

rs16943991	NP_071353	S	L	SL	benign
rs16944002	NP_742095	V	G	VG	possibly damaging
rs16944002	NP_742094	V	G	VG	possibly damaging
rs16944002	NP_742093	V	G	VG	possibly damaging
rs16944002	NP_473361	V	G	VG	possibly damaging
rs16944065	NP_064595	S	N	SN	benign
rs16944065	NP_945119	S	N	SN	benign
rs16944113	NP_057729	D	G	DG	possibly damaging
rs16944136	NP_115971	T	I	TI	benign
rs16944142	NP_115971	G	R	GR	probably damaging
rs16944148	NP_115971	A	G	AG	benign
rs16944397	NP_003794	M	T	MT	benign
rs16944971	NP_002560	A	V	AV	benign
rs16945138	NP_001363	R	W	RW	probably damaging
rs16945431	NP_001363	R	Q	RQ	possibly damaging
rs16945431	NP_004653	R	Q	RQ	possibly damaging
rs16945474	NP_000284	Y	C	YC	probably damaging
rs16945787	NP_150229	E	A	EA	benign
rs16945816	NP_660188	N	Y	NY	possibly damaging
rs16945816	NP_660189	N	Y	NY	possibly damaging
rs16945816	NP_660190	N	Y	NY	possibly damaging
rs16945816	NP_660191	N	Y	NY	possibly damaging
rs16945816	NP_150229	N	Y	NY	possibly damaging
rs16945874	NP_660188	A	E	AE	benign
rs16945874	NP_660189	A	E	AE	benign
rs16945874	NP_660190	A	E	AE	benign
rs16945874	NP_660191	A	E	AE	benign
rs16945874	NP_150229	A	E	AE	benign
rs16945901	NP_660188	I	L	IL	benign
rs16945901	NP_660189	I	L	IL	benign
rs16945901	NP_660190	I	L	IL	benign
rs16945901	NP_660191	I	L	IL	benign
rs16945901	NP_150229	I	L	IL	benign
rs16946335	NP_689811	E	K	EK	benign
rs16946429	XP_496170	E	G	EG	possibly damaging
rs16947226	NP_072051	F	L	FL	benign
rs16947229	NP_072051	G	E	GE	possibly damaging
rs16947300	NP_003913	I	V	IV	benign
rs16947350	NP_653203	R	Q	RQ	benign
rs16947353	NP_003913	T	A	TA	benign
rs16947363	NP_003913	S	A	SA	benign
rs16948530	NP_006651	A	T	AT	benign
rs16948568	NP_683685	V	I	VI	benign
rs16948568	NP_660298	V	I	VI	benign
rs16948646	NP_002195	A	T	AT	benign
rs16948646	NP_005492	A	T	AT	benign

rs16948978	NP_001294	T	I	TI	benign
rs16948986	NP_001294	Y	C	YC	benign
rs16949292	NP_848594	V	I	VI	benign
rs16950136	XP_371107	E	G	EG	probably damaging
rs16950277	NP_055683	E	D	ED	benign
rs16950706	NP_075046	G	R	GR	benign
rs16950860	NP_002553	R	C	RC	possibly damaging
rs16950981	NP_005550	D	V	DV	possibly damaging
rs16951079	NP_005550	V	I	VI	benign
rs16951186	XP_049037	V	M	VM	benign
rs16951438	XP_371116	C	G	CG	probably damaging
rs16951667	XP_497568	T	I	TI	possibly damaging
rs16951861	NP_001374	K	R	KR	benign
rs16952606	NP_003543	I	T	IT	possibly damaging
rs16952624	XP_051200	A	V	AV	benign
rs16952684	NP_663633	H	Q	HQ	possibly damaging
rs16952692	NP_002387	P	L	PL	probably damaging
rs16952828	NP_002541	S	G	SG	benign
rs16953073	NP_056078	N	D	ND	possibly damaging
rs16953240	XP_085236	N	K	NK	benign
rs16953308	NP_077312	Q	H	QH	benign
rs16953687	NP_055928	I	V	IV	benign
rs16954056	NP_060759	L	I	LI	benign
rs16954127	NP_851421	V	I	VI	benign
rs16954127	NP_851422	V	I	VI	benign
rs16954127	NP_055818	V	I	VI	benign
rs16954127	XP_496064	V	I	VI	benign
rs16954141	NP_851421	K	N	KN	benign
rs16954141	NP_851422	K	N	KN	benign
rs16954141	NP_055818	K	N	KN	benign
rs16954141	XP_496064	K	N	KN	benign
rs16954144	NP_851421	R	Q	RQ	benign
rs16954144	NP_851422	R	Q	RQ	benign
rs16954144	NP_055818	R	Q	RQ	benign
rs16954144	XP_496064	R	Q	RQ	benign
rs16954210	XP_372563	D	N	DN	benign
rs16954210	XP_372565	D	N	DN	benign
rs16954213	XP_372563	Q	E	QE	benign
rs16954213	XP_372565	Q	E	QE	benign
rs16954522	XP_375375	T	I	TI	possibly damaging
rs16954775	NP_877417	A	V	AV	benign
rs16954781	NP_076944	M	V	MV	possibly damaging
rs16954794	NP_877417	G	V	GV	possibly damaging
rs16955011	NP_849192	V	M	VM	benign
rs16955280	NP_004521	V	L	VL	benign
rs16955377	NP_005477	R	S	RS	possibly damaging

rs16955812	NP_659461	G	R	GR	probably damaging
rs16955851	NP_055151	Y	F	YF	benign
rs16955859	NP_055151	V	A	VA	benign
rs16955870	NP_061886	S	C	SC	benign
rs16955934	NP_056111	K	E	KE	benign
rs16955985	XP_375397	H	Q	HQ	benign
rs16956063	XP_497550	V	A	VA	benign
rs16956174	NP_660151	K	E	KE	benign
rs16956264	NP_694962	Y	C	YC	benign
rs16956337	XP_370848	W	R	WR	probably damaging
rs16956367	NP_008832	H	Y	HY	possibly damaging
rs16956375	NP_008832	P	R	PR	probably damaging
rs16956478	NP_006335	R	K	RK	benign
rs16956478	NP_878910	R	K	RK	benign
rs16956504	NP_001786	I	T	IT	benign
rs16956746	NP_851787	S	T	ST	benign
rs16956746	NP_851788	S	T	ST	benign
rs16956746	NP_851789	S	T	ST	benign
rs16956746	NP_851800	S	T	ST	benign
rs16956746	NP_851786	S	T	ST	benign
rs16956808	NP_004861	G	S	GS	benign
rs16956904	XP_294751	M	L	ML	benign
rs16957055	XP_031744	A	V	AV	benign
rs16957061	XP_031744	Y	C	YC	probably damaging
rs16957069	NP_064709	A	E	AE	benign
rs16957212	NP_848611	S	G	SG	benign
rs16957289	XP_085367	E	K	EK	benign
rs16957356	NP_000273	S	L	SL	possibly damaging
rs16957415	NP_060766	S	G	SG	benign
rs16957538	NP_114091	A	V	AV	benign
rs16957546	NP_653275	H	R	HR	possibly damaging
rs16957552	NP_055382	H	R	HR	possibly damaging
rs16957557	NP_653275	A	T	AT	benign
rs16957558	NP_055382	R	L	RL	possibly damaging
rs16957670	NP_071752	V	I	VI	benign
rs16957938	NP_067639	V	I	VI	benign
rs16958096	NP_775800	C	F	CF	probably damaging
rs16958180	XP_171766	E	K	EK	possibly damaging
rs16958186	XP_171766	P	L	PL	probably damaging
rs16958445	NP_699187	R	Q	RQ	benign
rs16958654	NP_054872	H	R	HR	benign
rs16958679	NP_005673	P	L	PL	possibly damaging
rs16958679	NP_958933	P	L	PL	probably damaging
rs16958679	NP_958932	P	L	PL	probably damaging
rs16958784	XP_371115	V	I	VI	benign
rs16958918	NP_004237	R	H	RH	benign

rs16958940	NP_765975	P	T	PT	possibly damaging
rs16958940	NP_765977	P	T	PT	possibly damaging
rs16958940	NP_765978	P	T	PT	possibly damaging
rs16958940	NP_006153	P	T	PT	possibly damaging
rs16959457	NP_001288	P	L	PL	possibly damaging
rs16959641	NP_078874	Q	E	QE	benign
rs16960074	NP_065909	S	T	ST	benign
rs16960074	NP_705871	S	T	ST	benign
rs16960074	NP_705870	S	T	ST	benign
rs16960074	NP_705869	S	T	ST	benign
rs16960383	XP_116936	N	S	NS	benign
rs16960959	NP_057323	A	T	AT	benign
rs16961557	XP_034904	V	A	VA	benign
rs16961560	XP_034904	L	V	LV	benign
rs16961655	NP_001933	T	S	TS	benign
rs16961689	NP_001933	Y	S	YS	benign
rs16961692	NP_001933	L	Q	LQ	probably damaging
rs16961728	NP_976224	Q	H	QH	benign
rs16961975	NP_001935	V	M	VM	benign
rs16962530	NP_055754	Q	E	QE	benign
rs16962974	NP_073588	A	V	AV	benign
rs16962976	XP_086494	R	H	RH	possibly damaging
rs16962980	XP_086494	Y	H	YH	benign
rs16962987	XP_370863	V	G	VG	possibly damaging
rs16962989	XP_370863	N	K	NK	benign
rs16963151	XP_370863	N	S	NS	benign
rs16963331	NP_006315	A	T	AT	benign
rs16963486	NP_002103	F	L	FL	possibly damaging
rs16964044	NP_060676	E	G	EG	possibly damaging
rs16964176	XP_371023	A	T	AT	benign
rs16964180	XP_497522	D	N	DN	benign
rs16964184	XP_371023	T	P	TP	probably damaging
rs16964363	NP_003975	M	L	ML	probably damaging
rs16964462	XP_371036	R	G	RG	probably damaging
rs16964472	XP_371036	H	Q	HQ	possibly damaging
rs16964887	XP_290811	M	R	MR	probably damaging
rs16964944	NP_000250	M	T	MT	benign
rs16965131	NP_004765	P	T	PT	possibly damaging
rs16965388	NP_061000	R	C	RC	possibly damaging
rs16965839	NP_150254	T	P	TP	probably damaging
rs16965839	NP_000968	T	P	TP	probably damaging
rs16966138	NP_061889	R	C	RC	probably damaging
rs16966705	NP_066293	I	T	IT	benign
rs16966742	NP_003762	Q	R	QR	benign
rs16966743	NP_003762	A	V	AV	possibly damaging
rs16966811	NP_003761	A	V	AV	benign

rs16966929	NP_002269	T	M	TM	possibly damaging
rs16966957	NP_775745	H	N	HN	benign
rs16967042	NP_060898	K	R	KR	benign
rs16967474	NP_060725	H	R	HR	probably damaging
rs16967494	NP_074035	A	T	AT	benign
rs16967494	NP_002465	A	T	AT	benign
rs16967510	NP_074035	V	A	VA	benign
rs16967510	NP_002465	V	A	VA	benign
rs16967805	NP_060495	L	S	LS	benign
rs16967845	NP_776246	C	Y	CY	probably damaging
rs16967895	NP_899233	D	G	DG	probably damaging
rs16968052	NP_003725	R	Q	RQ	benign
rs16968365	NP_009223	K	Q	KQ	benign
rs16968369	NP_009223	N	H	NH	benign
rs16968372	NP_009223	I	L	IL	benign
rs16968733	NP_003603	S	T	ST	benign
rs16968862	XP_496218	S	L	SL	benign
rs16969386	NP_689810	G	A	GA	benign
rs16969673	NP_689810	E	G	EG	possibly damaging
rs16969925	NP_001028	R	H	RH	benign
rs16969925	NP_950238	R	H	RH	benign
rs16969968	NP_000736	D	N	DN	benign
rs16970281	XP_058743	S	L	SL	benign
rs16970453	NP_443188	I	T	IT	possibly damaging
rs16970497	NP_116024	S	T	ST	benign
rs16970504	NP_116024	G	D	GD	benign
rs16970511	NP_443188	I	M	IM	benign
rs16970659	NP_775259	V	I	VI	benign
rs16970806	XP_371039	V	L	VL	benign
rs16970832	NP_060009	V	I	VI	benign
rs16970857	NP_060818	F	L	FL	benign
rs16970874	NP_733468	T	A	TA	benign
rs16970874	NP_653091	T	A	TA	benign
rs16970911	NP_733468	T	A	TA	benign
rs16970911	NP_653091	T	A	TA	benign
rs16971436	NP_008816	T	P	TP	benign
rs16971526	NP_775899	I	V	IV	benign
rs16971625	NP_004040	C	Y	CY	benign
rs16971802	NP_116738	K	E	KE	benign
rs16971802	NP_116739	K	E	KE	benign
rs16971886	XP_058997	R	H	RH	benign
rs16972020	NP_689492	I	V	IV	benign
rs16972020	NP_954577	V	I	VI	benign
rs16972129	NP_055526	R	S	RS	benign
rs16972193	NP_057726	R	W	RW	probably damaging
rs16972517	XP_370944	Q	P	QP	benign

rs16972583	NP_061159	P	A	PA	possibly damaging
rs16972799	NP_005021	N	D	ND	benign
rs16973015	NP_937784	I	V	IV	benign
rs16973021	XP_375313	W	R	WR	probably damaging
rs16973023	XP_375313	V	A	VA	benign
rs16973024	XP_375313	K	E	KE	benign
rs16973313	XP_028522	M	T	MT	probably damaging
rs16973344	NP_000344	N	D	ND	benign
rs16973407	NP_073746	I	V	IV	benign
rs16973424	NP_009099	C	G	CG	probably damaging
rs16973446	NP_009099	T	A	TA	benign
rs16973457	XP_208809	P	L	PL	possibly damaging
rs16973716	NP_112583	N	K	NK	benign
rs16973734	NP_775880	C	R	CR	probably damaging
rs16973749	NP_003881	M	V	MV	benign
rs16973796	NP_116015	D	H	DH	possibly damaging
rs16973806	XP_370865	L	V	LV	benign
rs16973859	XP_375376	L	P	LP	possibly damaging
rs16973890	NP_057620	K	E	KE	benign
rs16973893	NP_057620	K	M	KM	possibly damaging
rs16974462	NP_378662	P	T	PT	possibly damaging
rs16974462	NP_378666	P	T	PT	probably damaging
rs16974569	NP_065829	T	M	TM	possibly damaging
rs16974765	NP_003817	P	S	PS	probably damaging
rs16975065	NP_085125	T	P	TP	benign
rs16975383	XP_497555	M	T	MT	probably damaging
rs16975478	NP_008821	Y	H	YH	possibly damaging
rs16975548	NP_004354	E	K	EK	benign
rs16975588	NP_002474	G	V	GV	benign
rs16975748	NP_005348	S	T	ST	benign
rs16975750	NP_005348	Y	H	YH	benign
rs16976120	XP_496315	T	M	TM	benign
rs16976140	NP_002771	K	E	KE	benign
rs16976174	NP_066296	N	T	NT	benign
rs16976176	NP_066296	Q	K	QK	benign
rs16976185	NP_008836	I	V	IV	benign
rs16976185	NP_066296	V	I	VI	benign
rs16976190	NP_112536	V	L	VL	benign
rs16976205	NP_112536	V	A	VA	benign
rs16976208	NP_112536	N	K	NK	benign
rs16976214	NP_002775	D	Y	DY	benign
rs16976214	NP_112536	Y	D	YD	benign
rs16976234	NP_008836	R	K	RK	benign
rs16976235	NP_008836	T	P	TP	benign
rs16976238	NP_008836	E	Q	EQ	benign
rs16976238	NP_112536	Q	E	QE	benign



rs16976354	NP_570722	N	K	NK	benign
rs16976407	NP_112536	F	L	FL	benign
rs16976416	NP_112536	Q	L	QL	benign
rs16976431	NP_112536	T	A	TA	benign
rs16976439	NP_112536	R	W	RW	benign
rs16976466	XP_370866	T	A	TA	benign
rs16976608	NP_002650	D	A	DA	benign
rs16976751	NP_073752	G	V	GV	benign
rs16976814	NP_075563	M	L	ML	possibly damaging
rs16976814	NP_613074	M	L	ML	possibly damaging
rs16976937	NP_037491	V	M	VM	benign
rs16976939	NP_037491	R	C	RC	probably damaging
rs16976942	NP_037491	P	A	PA	probably damaging
rs16976948	NP_055029	A	T	AT	benign
rs16976970	XP_044632	R	Q	RQ	benign
rs16977032	NP_001030	E	K	EK	benign
rs16977447	NP_065834	S	N	SN	benign
rs16977594	NP_116255	M	V	MV	possibly damaging
rs16977629	NP_689664	V	A	VA	benign
rs16977686	NP_653166	S	G	SG	benign
rs16978523	NP_004037	A	S	AS	benign
rs16978657	NP_037493	I	L	IL	benign
rs16978705	NP_037530	H	L	HL	benign
rs16978712	NP_037530	N	K	NK	benign
rs16978715	NP_037530	N	D	ND	benign
rs16978716	NP_037530	K	R	KR	benign
rs16978718	NP_037530	F	L	FL	possibly damaging
rs16978738	NP_037494	T	S	TS	benign
rs16978744	NP_001366	H	R	HR	probably damaging
rs16978899	NP_861421	S	P	SP	possibly damaging
rs16978965	NP_037512	G	E	GE	benign
rs16978975	NP_000059	R	C	RC	benign
rs16979010	NP_056322	E	K	EK	benign
rs16979033	NP_056322	D	N	DN	possibly damaging
rs16979312	NP_996772	S	N	SN	benign
rs16979312	NP_996774	S	N	SN	benign
rs16979312	NP_996773	S	N	SN	benign
rs16979521	NP_859016	T	P	TP	probably damaging
rs16979841	NP_003591	I	V	IV	benign
rs16979841	NP_940835	I	V	IV	benign
rs16979841	NP_940836	I	V	IV	benign
rs16979841	NP_940837	I	V	IV	benign
rs16979841	NP_940838	I	V	IV	benign
rs16979841	NP_940839	I	V	IV	benign
rs16979907	NP_003442	D	G	DG	benign
rs16979912	NP_945182	S	P	SP	possibly damaging

rs16979967	XP_372712	M	T	MT	benign
rs16980312	XP_065050	I	T	IT	benign
rs16980489	NP_004645	P	S	PS	possibly damaging
rs16980531	NP_775754	S	C	SC	benign
rs16980758	NP_066925	Q	H	QH	benign
rs16980822	XP_065153	H	R	HR	possibly damaging
rs16980929	NP_000283	G	R	GR	probably damaging
rs16980994	XP_065153	N	K	NK	benign
rs16981016	NP_056182	I	V	IV	benign
rs16981187	NP_110403	D	H	DH	possibly damaging
rs16981648	XP_292824	K	Q	KQ	benign
rs16981827	XP_496488	S	N	SN	benign
rs16981869	NP_872431	N	S	NS	benign
rs16981934	NP_055221	W	R	WR	possibly damaging
rs16981956	NP_705836	V	A	VA	benign
rs16981999	NP_699191	R	C	RC	possibly damaging
rs16982020	NP_060299	R	S	RS	benign
rs16982149	NP_814444	L	S	LS	benign
rs16982149	NP_004596	L	S	LS	possibly damaging
rs16982158	NP_814444	D	N	DN	benign
rs16982158	NP_004596	D	N	DN	benign
rs16982169	NP_814444	R	H	RH	benign
rs16982169	NP_004596	R	H	RH	possibly damaging
rs16982285	XP_371146	A	V	AV	benign
rs16982388	NP_057452	T	P	TP	benign
rs16982614	NP_690870	D	E	DE	benign
rs16982871	NP_001661	R	Q	RQ	benign
rs16982928	NP_003401	A	T	AT	benign
rs16983230	XP_497639	K	T	KT	benign
rs16983231	XP_497639	T	A	TA	benign
rs16983243	NP_079116	I	R	IR	benign
rs16983281	NP_005666	A	V	AV	benign
rs16983353	NP_940882	R	K	RK	benign
rs16983412	XP_209155	V	L	VL	benign
rs16983509	XP_497781	T	M	TM	benign
rs16983580	NP_056380	A	V	AV	benign
rs16983693	XP_375936	H	Q	HQ	possibly damaging
rs16983815	XP_496320	H	Y	HY	probably damaging
rs16983886	NP_057518	K	N	KN	benign
rs16983886	NP_116575	K	N	KN	benign
rs16983889	NP_057518	M	I	MI	benign
rs16983889	NP_116575	M	I	MI	benign
rs16984014	XP_497139	R	C	RC	possibly damaging
rs16984134	NP_071336	T	P	TP	benign
rs16984466	NP_060825	H	P	HP	benign
rs16984945	NP_848551	R	H	RH	benign

rs16985357	NP_612140	Y	F	YF	benign
rs16985442	NP_065759	P	A	PA	benign
rs16985478	NP_006660	K	E	KE	benign
rs16985478	NP_006855	K	E	KE	benign
rs16985486	NP_006855	V	A	VA	benign
rs16985501	NP_006831	H	N	HN	benign
rs16985517	NP_006838	R	Q	RQ	benign
rs16985518	NP_006855	D	N	DN	benign
rs16985555	NP_006855	E	Q	EQ	benign
rs16985580	NP_006857	V	G	VG	probably damaging
rs16985644	NP_001890	D	N	DN	benign
rs16985729	NP_001889	R	M	RM	probably damaging
rs16985747	NP_006857	G	A	GA	benign
rs16985750	NP_001513	Y	C	YC	probably damaging
rs16985780	NP_001640	D	E	DE	benign
rs16985830	NP_006855	R	Q	RQ	benign
rs16985906	NP_703144	H	Y	HY	probably damaging
rs16985907	NP_703144	A	P	AP	benign
rs16985931	NP_036446	N	D	ND	benign
rs16985931	NP_839942	N	D	ND	benign
rs16985935	NP_037421	L	P	LP	benign
rs16986036	NP_036446	P	T	PT	benign
rs16986036	NP_839942	P	T	PT	benign
rs16986050	NP_579803	S	G	SG	benign
rs16986050	NP_579805	S	G	SG	benign
rs16986050	NP_579807	S	G	SG	benign
rs16986050	NP_579811	S	G	SG	benign
rs16986050	NP_579812	S	G	SG	benign
rs16986050	NP_579806	S	G	SG	benign
rs16986050	NP_001991	S	G	SG	possibly damaging
rs16986123	NP_055385	S	G	SG	benign
rs16986337	NP_110434	R	W	RW	possibly damaging
rs16986465	NP_038347	V	A	VA	possibly damaging
rs16986560	NP_000487	A	S	AS	benign
rs16986753	NP_853652	R	C	RC	probably damaging
rs16987048	XP_292723	M	L	ML	benign
rs16987136	NP_114434	E	G	EG	possibly damaging
rs16987136	NP_700358	E	G	EG	possibly damaging
rs16987188	XP_028810	A	V	AV	benign
rs16987290	NP_060151	F	L	FL	benign
rs16987303	NP_065864	S	C	SC	benign
rs16987592	NP_542789	S	C	SC	possibly damaging
rs16987625	NP_006595	M	T	MT	possibly damaging
rs16987627	NP_066306	W	R	WR	possibly damaging
rs16987632	NP_006596	S	T	ST	benign
rs16987768	XP_371423	W	C	WC	probably damaging

rs16987824	NP_998763	L	H	LH	possibly damaging
rs16987932	NP_003244	H	Q	HQ	possibly damaging
rs16987972	NP_056470	R	G	RG	possibly damaging
rs16988219	NP_543032	A	T	AT	benign
rs16988463	XP_045421	T	P	TP	benign
rs16988799	NP_653088	V	I	VI	benign
rs16988799	NP_009127	V	I	VI	benign
rs16988873	NP_075556	R	W	RW	possibly damaging
rs16988910	NP_055256	K	Q	KQ	benign
rs16989015	NP_542778	L	F	LF	benign
rs16989105	NP_004420	V	A	VA	benign
rs16989282	NP_006855	Y	F	YF	benign
rs16989284	NP_006855	P	R	PR	benign
rs16989291	XP_038520	W	R	WR	probably damaging
rs16989319	NP_114100	Q	H	QH	benign
rs16989394	NP_005865	D	E	DE	benign
rs16989521	NP_653260	R	H	RH	possibly damaging
rs16989528	XP_376007	A	V	AV	benign
rs16989535	XP_376007	S	F	SF	benign
rs16989698	XP_038520	R	H	RH	benign
rs16990018	NP_898902	N	S	NS	benign
rs16990065	NP_055042	T	M	TM	possibly damaging
rs16990169	NP_004002	R	C	RC	benign
rs16990169	NP_004003	R	C	RC	benign
rs16990169	NP_000100	R	C	RC	possibly damaging
rs16990169	NP_003997	R	C	RC	possibly damaging
rs16990169	NP_003998	R	C	RC	possibly damaging
rs16990169	NP_004000	R	C	RC	possibly damaging
rs16990169	NP_004001	R	C	RC	possibly damaging
rs16990264	NP_000100	N	K	NK	possibly damaging
rs16990264	NP_003997	N	K	NK	possibly damaging
rs16990264	NP_003998	N	K	NK	possibly damaging
rs16990264	NP_004000	N	K	NK	possibly damaging
rs16990264	NP_004002	N	K	NK	possibly damaging
rs16990264	NP_004003	N	K	NK	possibly damaging
rs16990264	NP_004001	N	K	NK	possibly damaging
rs16990468	XP_497792	N	S	NS	benign
rs16990631	XP_372869	A	E	AE	benign
rs16990731	XP_372227	R	C	RC	benign
rs16990757	NP_808211	E	K	EK	benign
rs16990757	NP_803545	E	K	EK	benign
rs16990961	NP_071378	Y	H	YH	benign
rs16990981	NP_073622	V	A	VA	benign
rs16990981	NP_942153	V	A	VA	benign
rs16991108	NP_062539	S	G	SG	benign
rs16991591	NP_877954	N	S	NS	benign

rs16991591	NP_115874	N	S	NS	benign
rs16991615	NP_877954	E	K	EK	benign
rs16991615	NP_115874	E	K	EK	benign
rs16991638	NP_877954	N	S	NS	benign
rs16991638	NP_115874	N	S	NS	benign
rs16991652	NP_751951	Q	E	QE	benign
rs16991654	NP_751951	F	L	FL	benign
rs16991656	NP_751951	A	V	AV	benign
rs16991866	NP_060141	I	T	IT	benign
rs16992061	XP_208438	H	D	HD	benign
rs16992068	XP_208438	E	A	EA	benign
rs16992072	XP_208438	H	N	HN	benign
rs16992078	XP_208438	T	S	TS	benign
rs16992083	XP_208438	P	S	PS	benign
rs16992084	XP_208438	G	S	GS	benign
rs16992131	NP_733778	E	K	EK	benign
rs16992131	NP_055261	E	K	EK	benign
rs16992427	XP_372233	V	G	VG	probably damaging
rs16992915	NP_851851	Y	C	YC	probably damaging
rs16993172	NP_000141	Q	K	QK	benign
rs16993216	NP_002025	R	Q	RQ	benign
rs16993928	NP_683515	S	A	SA	benign
rs16993929	NP_001227	P	S	PS	probably damaging
rs16993997	NP_065871	V	I	VI	benign
rs16994063	NP_005432	K	Q	KQ	benign
rs16994115	NP_006598	P	R	PR	probably damaging
rs16994414	XP_497170	D	Y	DY	probably damaging
rs16994559	NP_620168	N	H	NH	benign
rs16994563	NP_620168	V	I	VI	benign
rs16994704	NP_057514	Y	C	YC	probably damaging
rs16994704	NP_710148	Y	C	YC	probably damaging
rs16994704	NP_710149	Y	C	YC	probably damaging
rs16995138	NP_057510	A	T	AT	benign
rs16995209	NP_079408	G	S	GS	possibly damaging
rs16995229	NP_653259	I	F	IF	possibly damaging
rs16995304	NP_002818	G	S	GS	benign
rs16995309	NP_002818	P	L	PL	possibly damaging
rs16995615	NP_073603	I	V	IV	benign
rs16995685	NP_620713	R	S	RS	benign
rs16995781	NP_061943	R	W	RW	probably damaging
rs16995792	NP_005333	T	A	TA	benign
rs16996343	NP_066387	Q	H	QH	probably damaging
rs16996476	XP_292832	S	L	SL	benign
rs16996512	NP_005358	E	D	ED	benign
rs16996517	NP_060667	F	Y	FY	benign
rs16996517	NP_071371	F	Y	FY	benign

rs16996517	NP_955458	F	Y	FY	benign
rs16996593	NP_000662	D	E	DE	benign
rs16996616	NP_003652	D	N	DN	benign
rs16996616	NP_663318	D	N	DN	benign
rs16996616	NP_663319	D	N	DN	benign
rs16996652	NP_002464	V	E	VE	probably damaging
rs16996899	NP_004979	A	T	AT	benign
rs16997095	XP_210042	T	K	TK	possibly damaging
rs16997192	NP_542970	D	E	DE	benign
rs16997517	NP_000386	P	S	PS	probably damaging
rs16997659	NP_001406	K	R	KR	benign
rs16997814	NP_787106	A	T	AT	benign
rs16998061	NP_037517	M	V	MV	probably damaging
rs16998350	NP_000100	T	S	TS	benign
rs16998350	NP_003997	T	S	TS	benign
rs16998350	NP_003998	T	S	TS	benign
rs16998350	NP_004000	T	S	TS	benign
rs16998350	NP_004001	T	S	TS	benign
rs16999010	XP_045705	L	F	LF	benign
rs16999334	NP_055068	M	V	MV	possibly damaging
rs16999484	NP_004578	M	T	MT	possibly damaging
rs16999593	NP_001370	H	R	HR	probably damaging
rs17000357	NP_612143	H	D	HD	benign
rs17000556	NP_663745	T	A	TA	possibly damaging
rs17000697	NP_004891	S	A	SA	benign
rs17000707	NP_003939	I	T	IT	possibly damaging
rs17000716	NP_004891	K	E	KE	benign
rs17000736	NP_068594	R	H	RH	possibly damaging
rs17000961	NP_006230	S	C	SC	benign
rs17001096	NP_006107	D	E	DE	benign
rs17001096	NP_705717	D	E	DE	benign
rs17001213	NP_061881	T	M	TM	benign
rs17001264	NP_065863	R	G	RG	possibly damaging
rs17001276	NP_060585	V	I	VI	benign
rs17001278	NP_919307	E	A	EA	benign
rs17001344	NP_036598	L	P	LP	possibly damaging
rs17001458	NP_001602	V	I	VI	benign
rs17001730	XP_375569	L	V	LV	benign
rs17001767	XP_039385	S	C	SC	benign
rs17001885	NP_848650	I	V	IV	benign
rs17001889	NP_848650	E	D	ED	benign
rs17001958	NP_110451	R	C	RC	possibly damaging
rs17002012	XP_093024	A	T	AT	benign
rs17002243	NP_071381	I	L	IL	benign
rs17002693	NP_038472	L	H	LH	possibly damaging
rs17002714	NP_004590	M	L	ML	benign

rs17002790	NP_689826	Q	E	QE	benign
rs17002802	NP_689826	C	F	CF	benign
rs17002850	NP_000097	R	H	RH	probably damaging
rs17002853	NP_000097	L	P	LP	benign
rs17002865	NP_852469	Y	C	YC	probably damaging
rs17002865	NP_005641	Y	C	YC	probably damaging
rs17002888	NP_852469	S	N	SN	benign
rs17002888	NP_005641	S	N	SN	benign
rs17002890	NP_852469	M	I	MI	possibly damaging
rs17002890	NP_005641	M	I	MI	possibly damaging
rs17003048	NP_666017	N	K	NK	benign
rs17003071	NP_065926	D	H	DH	possibly damaging
rs17003071	NP_116252	D	H	DH	possibly damaging
rs17003071	NP_996672	D	H	DH	possibly damaging
rs17003085	XP_372226	N	S	NS	benign
rs17003166	NP_996672	T	M	TM	benign
rs17003213	NP_996672	A	V	AV	benign
rs17003394	NP_705843	R	C	RC	possibly damaging
rs17003397	NP_705843	T	M	TM	benign
rs17003398	NP_705843	E	K	EK	benign
rs17003712	XP_496704	L	F	LF	benign
rs17003955	NP_036414	P	T	PT	benign
rs17004668	NP_859016	V	M	VM	benign
rs17004823	NP_036427	D	N	DN	benign
rs17004876	XP_496518	D	N	DN	benign
rs17004876	NP_038347	N	D	ND	benign
rs17005371	NP_919224	P	S	PS	benign
rs17005371	NP_919303	P	S	PS	benign
rs17005371	NP_919304	P	S	PS	possibly damaging
rs17005371	NP_004793	P	S	PS	possibly damaging
rs17005441	NP_057381	T	S	TS	benign
rs17005979	NP_775921	V	G	VG	benign
rs17006082	NP_689831	N	K	NK	benign
rs17006138	NP_059517	S	C	SC	benign
rs17006138	NP_059522	S	C	SC	possibly damaging
rs17006138	NP_001608	S	C	SC	possibly damaging
rs17006436	NP_056532	P	S	PS	possibly damaging
rs17006625	NP_003875	N	S	NS	benign
rs17006677	NP_005782	L	M	LM	benign
rs17006794	NP_598375	V	M	VM	benign
rs17006830	NP_722548	D	N	DN	benign
rs17006830	NP_758861	D	N	DN	benign
rs17006830	NP_758862	D	N	DN	benign
rs17006830	NP_758863	D	N	DN	benign
rs17006830	NP_758864	D	N	DN	benign
rs17006830	NP_758865	D	N	DN	benign

rs17006830	NP_758866	D	N	DN	benign
rs17006830	NP_758867	D	N	DN	benign
rs17006830	NP_758868	D	N	DN	benign
rs17006830	NP_758869	D	N	DN	benign
rs17006830	NP_758870	D	N	DN	benign
rs17006830	NP_758871	D	N	DN	benign
rs17006830	NP_002380	D	N	DN	benign
rs17006830	NP_758860	D	N	DN	benign
rs17006837	NP_598375	L	P	LP	possibly damaging
rs17007544	XP_371488	K	R	KR	benign
rs17007988	XP_497978	D	H	DH	possibly damaging
rs17008180	XP_496711	K	Q	KQ	possibly damaging
rs17008395	NP_001968	V	A	VA	benign
rs17008716	NP_036535	L	P	LP	probably damaging
rs17008839	XP_497976	Q	R	QR	benign
rs17008841	XP_497976	C	R	CR	probably damaging
rs17008947	XP_067904	V	I	VI	benign
rs17009684	NP_078858	K	E	KE	benign
rs17009792	NP_597813	S	N	SN	benign
rs17009792	NP_597812	S	N	SN	benign
rs17009792	NP_067019	S	N	SN	benign
rs17009792	NP_201580	S	N	SN	benign
rs17009858	NP_078858	A	T	AT	benign
rs17009944	XP_371514	A	S	AS	benign
rs17009998	XP_376068	S	F	SF	benign
rs17010021	NP_115992	I	F	IF	benign
rs17010106	NP_689801	Y	S	YS	probably damaging
rs17010210	NP_653176	H	Y	HY	benign
rs17011368	NP_000370	I	V	IV	benign
rs17011882	NP_079455	A	G	AG	benign
rs17012064	NP_542415	S	P	SP	benign
rs17012064	NP_542416	S	P	SP	benign
rs17012064	NP_006255	S	P	SP	benign
rs17012064	NP_542414	S	P	SP	benign
rs17012268	NP_060205	R	H	RH	possibly damaging
rs17012533	XP_495928	A	T	AT	benign
rs17012739	NP_055079	D	E	DE	benign
rs17013076	XP_104657	R	H	RH	benign
rs17013181	NP_004958	G	R	GR	possibly damaging
rs17013182	NP_004958	T	A	TA	benign
rs17013238	NP_113642	E	K	EK	benign
rs17013285	NP_064588	V	I	VI	benign
rs17013371	NP_878919	A	T	AT	benign
rs17013371	NP_060704	A	T	AT	benign
rs17014118	XP_496710	F	L	FL	benign
rs17015215	NP_006138	V	I	VI	benign



rs17015286	NP_938022	R	K	RK	benign
rs17016672	XP_060278	T	I	TI	benign
rs17016706	NP_997195	S	N	SN	possibly damaging
rs17016865	NP_001059	T	A	TA	benign
rs17016875	NP_001059	T	A	TA	possibly damaging
rs17017968	XP_094074	I	T	IT	benign
rs17018909	NP_598011	V	L	VL	benign
rs17018909	NP_598012	V	L	VL	benign
rs17018909	NP_598013	V	L	VL	benign
rs17018909	NP_598014	V	L	VL	benign
rs17018909	NP_598010	V	L	VL	benign
rs17020314	NP_036556	P	R	PR	possibly damaging
rs17020328	NP_005751	K	R	KR	benign
rs17020956	NP_000706	A	V	AV	benign
rs17021877	XP_375834	A	T	AT	benign
rs17022631	XP_208658	T	K	TK	possibly damaging
rs17022678	XP_371284	P	A	PA	benign
rs17023101	NP_056651	L	P	LP	possibly damaging
rs17023638	NP_612373	S	G	SG	benign
rs17023677	NP_000853	T	I	TI	benign
rs17023739	XP_497702	K	R	KR	benign
rs17024517	NP_077719	V	F	VF	benign
rs17024663	NP_000839	F	Y	FY	benign
rs17024663	NP_000841	Y	F	YF	benign
rs17024795	NP_005381	R	G	RG	probably damaging
rs17024904	NP_689648	P	H	PH	possibly damaging
rs17025409	NP_660342	Y	C	YC	probably damaging
rs17025464	NP_660342	S	N	SN	benign
rs17025503	XP_049952	A	T	AT	benign
rs17025864	NP_003233	M	V	MV	benign
rs17026871	NP_777612	V	A	VA	benign
rs17027133	NP_006717	N	S	NS	benign
rs17027298	XP_086604	T	I	TI	benign
rs17027505	NP_899231	L	S	LS	benign
rs17027591	XP_497697	G	E	GE	probably damaging
rs17027633	NP_002548	E	D	ED	benign
rs17027955	XP_497651	V	A	VA	benign
rs17028351	NP_060484	G	S	GS	possibly damaging
rs17028351	NP_612563	G	S	GS	possibly damaging
rs17028351	NP_075044	G	S	GS	possibly damaging
rs17028450	NP_003267	R	C	RC	possibly damaging
rs17028702	XP_496634	R	L	RL	possibly damaging
rs17028836	NP_000659	H	R	HR	probably damaging
rs17029087	NP_115525	K	E	KE	benign
rs17029094	NP_060127	K	T	KT	benign
rs17029215	NP_000244	D	A	DA	benign

rs17029613	NP_078930	I	V	IV	benign
rs17029945	XP_045423	I	V	IV	benign
rs17029947	NP_683765	M	L	ML	benign
rs17030365	NP_777602	P	T	PT	possibly damaging
rs17030648	NP_071348	C	R	CR	benign
rs17031056	NP_940956	V	I	VI	benign
rs17031056	NP_071348	V	I	VI	benign
rs17031279	NP_060109	T	M	TM	benign
rs17031297	NP_742066	P	T	PT	probably damaging
rs17031368	NP_742066	N	S	NS	benign
rs17031394	NP_060109	T	R	TR	benign
rs17031672	NP_071881	T	S	TS	benign
rs17033889	NP_001050	A	T	AT	benign
rs17034186	NP_060034	I	V	IV	benign
rs17034336	NP_060034	R	Q	RQ	benign
rs17034433	NP_060034	N	T	NT	benign
rs17034499	NP_006039	V	I	VI	benign
rs17035120	NP_112592	A	T	AT	benign
rs17035206	NP_037452	G	A	GA	benign
rs17035364	NP_002655	R	W	RW	possibly damaging
rs17035649	NP_001399	T	A	TA	benign
rs17035911	XP_497863	Y	C	YC	probably damaging
rs17036055	NP_789795	V	M	VM	benign
rs17036055	NP_001047	V	M	VM	benign
rs17036058	NP_789795	R	Q	RQ	probably damaging
rs17036058	NP_001047	R	Q	RQ	probably damaging
rs17036063	XP_376334	D	H	DH	benign
rs17036091	NP_789795	Y	H	YH	probably damaging
rs17036091	NP_001047	Y	H	YH	probably damaging
rs17036104	NP_789795	S	A	SA	benign
rs17036104	NP_001047	S	A	SA	benign
rs17036112	NP_789795	R	T	RT	benign
rs17036112	NP_001047	R	T	RT	benign
rs17036148	XP_497911	S	R	SR	benign
rs17036153	XP_497911	E	D	ED	benign
rs17036300	NP_775920	Q	R	QR	benign
rs17036670	NP_004748	T	A	TA	benign
rs17036832	NP_003585	S	T	ST	benign
rs17036993	NP_061163	T	S	TS	benign
rs17036993	NP_079409	T	S	TS	benign
rs17037102	NP_055236	R	Q	RQ	benign
rs17037287	XP_371617	L	F	LF	benign
rs17038126	NP_004744	H	N	HN	possibly damaging
rs17038204	NP_689834	T	M	TM	benign
rs17038387	XP_208281	R	Q	RQ	benign
rs17038460	NP_060552	T	A	TA	possibly damaging

rs17038653	NP_075390	V	G	VG	probably damaging
rs17038657	NP_075390	S	W	SW	probably damaging
rs17038664	NP_075390	M	T	MT	benign
rs17038667	NP_075390	T	M	TM	benign
rs17038677	NP_075390	I	L	IL	benign
rs17038682	NP_075390	H	R	HR	benign
rs17038687	NP_075390	Y	C	YC	benign
rs17038692	NP_075390	T	N	TN	probably damaging
rs17038702	NP_075389	Q	E	QE	benign
rs17038707	NP_075390	T	S	TS	benign
rs17038766	NP_998759	S	A	SA	benign
rs17038766	NP_115880	S	A	SA	benign
rs17038795	XP_371619	A	T	AT	benign
rs17038956	XP_293029	D	V	DV	benign
rs17039250	NP_758515	K	N	KN	benign
rs17039250	NP_006864	K	N	KN	benign
rs17039273	NP_075390	H	R	HR	possibly damaging
rs17039283	NP_075390	L	M	LM	benign
rs17039293	NP_075390	F	Y	FY	possibly damaging
rs17039307	NP_075390	C	R	CR	benign
rs17039331	NP_075389	V	F	VF	benign
rs17039331	NP_075390	F	V	FV	possibly damaging
rs17039424	XP_496341	E	G	EG	benign
rs17039825	XP_497912	Q	R	QR	benign
rs17039828	XP_497912	H	R	HR	probably damaging
rs17039830	XP_497912	M	V	MV	benign
rs17039841	XP_497912	R	C	RC	probably damaging
rs17040068	NP_057558	K	T	KT	benign
rs17040196	NP_115513	A	T	AT	benign
rs17040250	NP_055626	N	D	ND	benign
rs17040344	NP_892019	P	S	PS	probably damaging
rs17040745	NP_073153	H	R	HR	benign
rs17040901	NP_004792	Y	N	YN	probably damaging
rs17040982	NP_064501	K	E	KE	benign
rs17041296	XP_374987	E	Q	EQ	benign
rs17041316	XP_377278	T	M	TM	possibly damaging
rs17041784	NP_004291	T	A	TA	benign
rs17041850	NP_060778	P	L	PL	probably damaging
rs17042066	NP_612390	R	Q	RQ	benign
rs17042341	NP_689728	R	S	RS	benign
rs17042344	NP_689728	N	S	NS	benign
rs17043749	NP_060822	T	I	TI	benign
rs17044591	XP_496632	E	K	EK	possibly damaging
rs17046663	NP_060510	R	K	RK	benign
rs17047280	NP_000564	H	R	HR	benign
rs17047280	NP_000642	H	R	HR	possibly damaging

rs17047347	XP_372922	E	K	EK	benign
rs17047557	NP_061917	Y	H	YH	benign
rs17047660	NP_000642	K	E	KE	benign
rs17047660	NP_000564	K	E	KE	benign
rs17047661	NP_000642	R	G	RG	possibly damaging
rs17047661	NP_000564	R	G	RG	possibly damaging
rs17049629	XP_373033	P	L	PL	possibly damaging
rs17050126	XP_050219	M	T	MT	benign
rs17050152	XP_050219	A	T	AT	benign
rs17050550	NP_058212	A	S	AS	benign
rs17050550	NP_058213	A	S	AS	benign
rs17050550	NP_058214	A	S	AS	benign
rs17050550	NP_058434	A	S	AS	benign
rs17050550	NP_058436	A	S	AS	benign
rs17050550	NP_058437	A	S	AS	benign
rs17050550	NP_058438	A	S	AS	benign
rs17050550	NP_002533	A	S	AS	benign
rs17051276	NP_237223	S	A	SA	benign
rs17051276	NP_246273	S	A	SA	benign
rs17051440	XP_208097	D	E	DE	benign
rs17051967	NP_000123	M	V	MV	benign
rs17051967	NP_063916	M	V	MV	benign
rs17052017	NP_954635	S	N	SN	possibly damaging
rs17052019	NP_004378	D	A	DA	probably damaging
rs17052203	NP_115737	D	N	DN	benign
rs17052920	NP_001055	I	V	IV	benign
rs17053341	NP_079216	Q	R	QR	benign
rs17053747	XP_212241	G	E	GE	possibly damaging
rs17053777	XP_212238	M	R	MR	benign
rs17054318	XP_027307	L	S	LS	benign
rs17054374	NP_005537	R	Q	RQ	benign
rs17054477	NP_073150	G	S	GS	benign
rs17054522	NP_001001343	P	A	PA	possibly damaging
rs17054882	NP_660204	E	K	EK	possibly damaging
rs17055117	NP_060337	K	R	KR	benign
rs17056661	NP_787103	C	F	CF	benign
rs17056999	NP_056039	A	G	AG	benign
rs17057133	NP_037522	I	V	IV	benign
rs17057255	NP_001970	R	C	RC	possibly damaging
rs17057718	NP_060033	V	M	VM	benign
rs17057901	NP_060962	E	D	ED	benign
rs17058153	NP_619636	M	T	MT	benign
rs17058207	NP_776194	D	H	DH	benign
rs17058374	NP_776194	A	T	AT	benign
rs17058433	XP_292193	I	S	IS	possibly damaging
rs17058845	NP_001448	E	K	EK	benign

rs17058955	NP_733837	S	T	ST	benign
rs17059569	NP_620160	P	S	PS	benign
rs17060972	XP_209910	M	T	MT	possibly damaging
rs17060979	XP_209910	R	H	RH	benign
rs17061399	NP_778237	I	T	IT	possibly damaging
rs17061401	NP_778237	G	S	GS	benign
rs17061404	NP_778237	Y	C	YC	possibly damaging
rs17061409	NP_778237	A	V	AV	benign
rs17061419	NP_778237	V	I	VI	benign
rs17061714	XP_498281	M	T	MT	benign
rs17062054	NP_078837	E	G	EG	possibly damaging
rs17062589	NP_653245	Y	C	YC	probably damaging
rs17062601	XP_038664	G	R	GR	probably damaging
rs17063163	NP_652761	H	R	HR	possibly damaging
rs17063163	NP_057332	H	R	HR	possibly damaging
rs17063167	NP_652761	L	F	LF	benign
rs17063167	NP_057332	L	F	LF	benign
rs17064618	NP_003961	T	M	TM	benign
rs17064631	XP_497061	S	G	SG	possibly damaging
rs17064658	NP_060718	Q	H	QH	possibly damaging
rs17064676	NP_060718	I	V	IV	benign
rs17064722	XP_372121	S	P	SP	possibly damaging
rs17064722	NP_060046	P	S	PS	probably damaging
rs17065105	NP_073591	N	S	NS	benign
rs17065127	NP_443179	K	E	KE	benign
rs17065289	NP_004660	M	L	ML	benign
rs17065377	NP_037511	E	K	EK	benign
rs17065397	NP_067544	I	M	IM	benign
rs17065397	NP_000823	I	M	IM	benign
rs17065397	NP_015566	I	M	IM	benign
rs17065520	NP_115866	T	P	TP	possibly damaging
rs17066588	NP_001189	R	P	RP	benign
rs17066588	NP_878911	R	P	RP	possibly damaging
rs17066621	NP_003286	V	F	VF	possibly damaging
rs17066902	XP_495949	H	R	HR	possibly damaging
rs17066954	XP_495949	S	T	ST	benign
rs17067725	NP_002289	P	A	PA	benign
rs17067933	XP_497373	T	N	TN	benign
rs17067935	XP_497373	P	A	PA	probably damaging
rs17068451	XP_371849	V	M	VM	benign
rs17068463	NP_114097	P	L	PL	benign
rs17070905	NP_891550	R	Q	RQ	benign
rs17070967	NP_891550	K	R	KR	benign
rs17071010	NP_891550	K	E	KE	benign
rs17071010	NP_891551	K	E	KE	benign
rs17071550	NP_536723	M	T	MT	benign

rs17071686	NP_005758	W	C	WC	probably damaging
rs17072097	NP_005015	S	A	SA	benign
rs17072146	NP_005015	G	D	GD	possibly damaging
rs17072159	XP_372494	S	P	SP	possibly damaging
rs17072218	NP_006428	C	R	CR	probably damaging
rs17072289	XP_498129	T	S	TS	benign
rs17072296	XP_498129	M	L	ML	benign
rs17072442	NP_061063	K	Q	KQ	benign
rs17073260	NP_937882	R	C	RC	possibly damaging
rs17073260	NP_003871	R	C	RC	possibly damaging
rs17073260	NP_569080	R	C	RC	possibly damaging
rs17073498	NP_003755	R	Q	RQ	possibly damaging
rs17073511	XP_166270	L	Q	LQ	possibly damaging
rs17074311	NP_005981	P	L	PL	benign
rs17074410	XP_209668	Y	C	YC	probably damaging
rs17074452	NP_689490	M	I	MI	benign
rs17074833	NP_001555	S	A	SA	benign
rs17075173	NP_004120	V	I	VI	benign
rs17075385	NP_115521	S	C	SC	benign
rs17075482	NP_659456	D	H	DH	benign
rs17075635	NP_002347	K	N	KN	benign
rs17076052	NP_112580	R	C	RC	possibly damaging
rs17076657	NP_570718	I	V	IV	benign
rs17076703	NP_005992	D	V	DV	probably damaging
rs17076894	NP_078872	S	G	SG	possibly damaging
rs17076986	NP_064627	E	D	ED	benign
rs17077022	NP_003232	I	V	IV	benign
rs17077958	NP_060831	Y	C	YC	probably damaging
rs17078601	NP_055178	P	A	PA	probably damaging
rs17078605	NP_055178	V	A	VA	benign
rs17078659	XP_497921	D	N	DN	benign
rs17078857	NP_000834	T	S	TS	benign
rs17078874	NP_000834	A	V	AV	benign
rs17078877	NP_000834	M	V	MV	benign
rs17078894	NP_000834	V	F	VF	benign
rs17078896	NP_000834	I	F	IF	benign
rs17078898	NP_000834	E	V	EV	probably damaging
rs17078901	NP_000834	E	K	EK	benign
rs17078944	NP_079026	A	E	AE	benign
rs17078944	NP_078788	E	A	EA	benign
rs17078988	XP_293828	T	A	TA	benign
rs17078991	XP_293828	E	D	ED	benign
rs17079086	NP_002935	F	S	FS	possibly damaging
rs17079425	XP_291064	R	H	RH	benign
rs17079973	XP_208320	K	E	KE	benign
rs17079979	XP_208320	V	I	VI	benign

rs17080065	NP_079057	N	K	NK	benign
rs17080126	NP_006783	E	D	ED	benign
rs17080147	NP_115605	Q	R	QR	benign
rs17080284	NP_003356	D	H	DH	possibly damaging
rs17080346	NP_071916	S	N	SN	benign
rs17080381	XP_027307	Q	R	QR	benign
rs17080410	XP_027307	V	A	VA	benign
rs17080781	XP_498030	R	C	RC	possibly damaging
rs17080791	XP_498030	F	S	FS	possibly damaging
rs17081389	NP_060921	P	A	PA	possibly damaging
rs17081517	XP_496634	R	C	RC	probably damaging
rs17081880	XP_496783	T	P	TP	benign
rs17082206	NP_775901	K	R	KR	benign
rs17082236	NP_056108	A	S	AS	benign
rs17082236	NP_598411	A	S	AS	benign
rs17082236	NP_149062	A	S	AS	benign
rs17082236	NP_892006	A	S	AS	benign
rs17082709	NP_149062	L	V	LV	benign
rs17082709	NP_892006	L	V	LV	benign
rs17083426	NP_114431	S	N	SN	benign
rs17083436	NP_898865	S	N	SN	benign
rs17084492	NP_006637	S	L	SL	possibly damaging
rs17084873	NP_055454	L	V	LV	benign
rs17084927	NP_937793	Q	R	QR	benign
rs17085222	XP_212238	D	E	DE	benign
rs17085222	XP_212241	E	D	ED	benign
rs17085228	XP_212241	K	M	KM	benign
rs17085228	XP_212238	M	K	MK	benign
rs17085349	NP_000973	F	S	FS	possibly damaging
rs17085612	NP_690876	L	F	LF	benign
rs17086286	NP_694821	A	G	AG	benign
rs17086286	NP_620416	A	G	AG	benign
rs17087233	NP_005566	S	T	ST	benign
rs17089289	XP_058931	A	V	AV	benign
rs17090763	NP_116208	T	P	TP	benign
rs17090835	NP_071404	P	R	PR	probably damaging
rs17090883	XP_498127	H	R	HR	benign
rs17090972	NP_776249	Q	K	QK	benign
rs17091146	NP_064445	I	V	IV	benign
rs17091178	NP_000504	A	V	AV	benign
rs17091204	NP_001447	S	L	SL	possibly damaging
rs17091516	XP_113763	A	G	AG	benign
rs17092079	NP_054790	N	S	NS	benign
rs17092104	NP_003044	L	V	LV	benign
rs17092144	NP_003044	R	Q	RQ	possibly damaging
rs17092199	XP_371398	P	T	PT	benign

rs17092216	NP_689805	R	H	RH	benign
rs17092662	NP_057501	A	T	AT	benign
rs17092706	NP_009117	Q	E	QE	benign
rs17092928	NP_690051	N	S	NS	benign
rs17093080	NP_848567	T	K	TK	possibly damaging
rs17093294	NP_068801	V	I	VI	benign
rs17093689	XP_092778	Y	C	YC	probably damaging
rs17093828	NP_002101	P	Q	PQ	probably damaging
rs17094077	NP_689658	L	P	LP	benign
rs17094434	NP_001240	K	R	KR	benign
rs17094821	NP_057735	S	A	SA	benign
rs17094900	NP_660301	M	I	MI	benign
rs17095304	NP_803877	A	V	AV	benign
rs17095369	NP_597703	G	V	GV	benign
rs17095369	XP_374801	G	V	GV	probably damaging
rs17095653	XP_371259	I	V	IV	benign
rs17095822	NP_001880	E	K	EK	benign
rs17095919	NP_000631	W	R	WR	benign
rs17096291	NP_653182	V	A	VA	benign
rs17096797	NP_940901	F	C	FC	possibly damaging
rs17096845	NP_061759	L	P	LP	benign
rs17096901	NP_056484	I	T	IT	benign
rs17096934	NP_060239	R	H	RH	benign
rs17096946	NP_061763	E	K	EK	benign
rs17096954	NP_061993	E	G	EG	possibly damaging
rs17096961	NP_061993	S	N	SN	benign
rs17096969	NP_066008	D	E	DE	possibly damaging
rs17097185	NP_114382	H	Q	HQ	benign
rs17097185	NP_061735	H	Q	HQ	benign
rs17097231	NP_061746	P	R	PR	probably damaging
rs17097251	NP_114476	T	M	TM	benign
rs17097251	NP_061743	T	M	TM	benign
rs17097274	NP_114478	L	F	LF	possibly damaging
rs17097274	NP_061744	L	F	LF	possibly damaging
rs17097468	NP_004077	E	G	EG	possibly damaging
rs17097802	NP_002926	T	R	TR	benign
rs17097904	NP_542395	R	W	RW	probably damaging
rs17098707	NP_005299	Q	L	QL	benign
rs17099008	NP_004762	I	L	IL	benign
rs17099014	NP_004762	D	N	DN	benign
rs17099240	NP_004265	N	S	NS	benign
rs17099248	XP_063336	V	G	VG	possibly damaging
rs17099370	NP_114120	R	L	RL	benign
rs17099455	NP_066284	A	T	AT	benign
rs17099476	NP_005545	V	I	VI	benign
rs17099476	NP_005546	V	I	VI	benign



rs17099587	NP_004265	T	A	TA	benign
rs17099969	XP_370652	R	Q	RQ	benign
rs17100686	NP_665876	R	Q	RQ	benign
rs17100920	XP_375105	Q	E	QE	benign
rs17101180	NP_060125	S	F	SF	possibly damaging
rs17101193	XP_166086	N	K	NK	benign
rs17101262	NP_004554	G	S	GS	possibly damaging
rs17101962	NP_612485	A	V	AV	benign
rs17101995	NP_071356	S	T	ST	benign
rs17102002	NP_071356	V	L	VL	benign
rs17102042	XP_372509	V	M	VM	benign
rs17102066	NP_060209	V	I	VI	benign
rs17102152	NP_950245	N	K	NK	benign
rs17102311	NP_036593	P	S	PS	possibly damaging
rs17102313	NP_036593	G	D	GD	possibly damaging
rs17102531	XP_290559	A	T	AT	benign
rs17102592	NP_000770	F	C	FC	benign
rs17102750	NP_038476	D	E	DE	benign
rs17102750	NP_872589	D	E	DE	benign
rs17102752	NP_038476	D	N	DN	benign
rs17102752	NP_872589	D	N	DN	benign
rs17102999	NP_055196	T	I	TI	possibly damaging
rs17103066	NP_006818	R	G	RG	probably damaging
rs17103567	NP_443121	Q	K	QK	benign
rs17103567	NP_001214	K	Q	KQ	possibly damaging
rs17103567	NP_150634	K	Q	KQ	possibly damaging
rs17103671	NP_065099	D	G	DG	possibly damaging
rs17103672	XP_370756	I	V	IV	benign
rs17104086	NP_060442	V	E	VE	benign
rs17104086	NP_060396	V	E	VE	possibly damaging
rs17104428	XP_375087	M	V	MV	benign
rs17104534	NP_001163	G	R	GR	possibly damaging
rs17104742	NP_919227	P	L	PL	probably damaging
rs17104991	NP_085134	W	C	WC	probably damaging
rs17106156	XP_497686	L	P	LP	possibly damaging
rs17106351	XP_063315	R	H	RH	benign
rs17106411	NP_116235	N	T	NT	benign
rs17106909	NP_689647	G	R	GR	possibly damaging
rs17107176	XP_056434	T	S	TS	benign
rs17107198	NP_004144	T	M	TM	possibly damaging
rs17107203	NP_004144	V	M	VM	benign
rs17107315	NP_003113	N	S	NS	benign
rs17107368	NP_997255	D	E	DE	benign
rs17108112	NP_055880	V	A	VA	benign
rs17108127	NP_055880	M	L	ML	benign
rs17108378	NP_653189	V	I	VI	benign

rs17109109	NP_005921	N	S	NS	benign
rs17109109	NP_976230	N	S	NS	benign
rs17109109	NP_976231	N	S	NS	benign
rs17109109	NP_976229	N	S	NS	benign
rs17109109	NP_976232	N	S	NS	benign
rs17109261	NP_078853	H	R	HR	benign
rs17109853	NP_000186	A	T	AT	benign
rs17109924	NP_003658	V	A	VA	benign
rs17110107	NP_003558	Q	H	QH	possibly damaging
rs17110155	NP_113623	T	M	TM	benign
rs17110268	NP_000762	R	C	RC	probably damaging
rs17110563	NP_775489	P	S	PS	probably damaging
rs17110744	NP_068600	A	T	AT	benign
rs17111188	NP_009041	K	N	KN	benign
rs17111579	NP_963889	A	P	AP	benign
rs17112015	XP_497678	R	Q	RQ	benign
rs17112076	NP_689522	E	K	EK	benign
rs17112598	NP_116289	Q	R	QR	benign
rs17112809	NP_071757	V	I	VI	benign
rs17112895	NP_057196	R	Q	RQ	benign
rs17113157	NP_056305	S	R	SR	benign
rs17113164	XP_495845	D	E	DE	benign
rs17113381	NP_005328	P	H	PH	probably damaging
rs17113412	NP_653191	E	G	EG	possibly damaging
rs17113607	NP_114144	G	E	GE	possibly damaging
rs17113613	NP_068602	V	I	VI	benign
rs17113628	NP_000992	I	V	IV	benign
rs17113823	XP_063202	D	A	DA	benign
rs17114261	XP_372500	V	L	VL	benign
rs17114309	XP_292227	R	C	RC	possibly damaging
rs17114336	XP_496368	I	M	IM	benign
rs17114388	NP_055877	S	G	SG	benign
rs17114555	NP_000553	D	N	DN	possibly damaging
rs17114930	NP_061834	D	E	DE	benign
rs17115182	NP_008974	P	S	PS	possibly damaging
rs17115709	NP_004562	T	A	TA	benign
rs17116056	NP_077816	S	Y	SY	possibly damaging
rs17116138	NP_006019	V	I	VI	benign
rs17116471	NP_000485	T	A	TA	benign
rs17116471	NP_570134	T	A	TA	benign
rs17116709	XP_209695	E	Q	EQ	benign
rs17116710	XP_209695	R	H	RH	possibly damaging
rs17117295	NP_003947	L	P	LP	possibly damaging
rs17117678	NP_660286	I	L	IL	benign
rs17117699	NP_660286	F	C	FC	possibly damaging
rs17117720	NP_660286	P	L	PL	probably damaging

rs17117841	XP_371263	M	V	MV	probably damaging
rs17118042	NP_073629	P	T	PT	possibly damaging
rs17118103	XP_055481	C	S	CS	probably damaging
rs17118154	NP_008859	E	D	ED	benign
rs17118292	NP_001973	M	I	MI	benign
rs17118426	NP_653177	P	S	PS	probably damaging
rs17119218	NP_061725	W	S	WS	benign
rs17119218	NP_114067	W	S	WS	probably damaging
rs17119255	NP_114065	T	A	TA	benign
rs17119255	NP_061724	T	A	TA	benign
rs17119344	NP_005370	T	I	TI	benign
rs17119477	NP_061762	L	P	LP	benign
rs17120062	NP_653306	N	K	NK	possibly damaging
rs17120308	NP_149034	C	R	CR	probably damaging
rs17120425	NP_057080	V	I	VI	benign
rs17120784	XP_495921	T	I	TI	possibly damaging
rs17121403	NP_000636	Q	R	QR	benign
rs17121403	NP_000637	Q	R	QR	benign
rs17121403	NP_000635	Q	R	QR	benign
rs17121464	NP_000636	R	Q	RQ	benign
rs17121464	NP_000637	R	Q	RQ	benign
rs17121464	NP_000635	R	Q	RQ	benign
rs17121493	NP_001549	I	V	IV	benign
rs17121605	NP_689542	I	N	IN	probably damaging
rs17121745	NP_660155	T	A	TA	benign
rs17121818	NP_004579	R	H	RH	benign
rs17121819	NP_004579	R	W	RW	possibly damaging
rs17121881	NP_694938	N	I	NI	benign
rs17121966	NP_938016	M	V	MV	benign
rs17122201	NP_008870	S	N	SN	benign
rs17122412	NP_004187	K	E	KE	benign
rs17122711	NP_872325	P	L	PL	probably damaging
rs17122769	NP_005179	V	I	VI	benign
rs17122812	XP_062553	V	A	VA	benign
rs17122815	NP_005790	C	R	CR	probably damaging
rs17122815	NP_795352	C	R	CR	probably damaging
rs17122815	NP_795353	C	R	CR	probably damaging
rs17123261	NP_001231	H	R	HR	possibly damaging
rs17123306	NP_859063	G	S	GS	benign
rs17123569	NP_006000	S	T	ST	benign
rs17123590	NP_008823	R	P	RP	possibly damaging
rs17123590	NP_787044	R	P	RP	probably damaging
rs17123590	NP_787045	R	P	RP	probably damaging
rs17123590	NP_787046	R	P	RP	probably damaging
rs17123951	NP_542406	A	T	AT	benign
rs17124391	NP_848561	A	E	AE	benign

rs17124662	NP_060888	S	N	SN	benign
rs17124677	NP_060888	G	E	GE	probably damaging
rs17124706	NP_954660	F	L	FL	benign
rs17124706	NP_443111	F	L	FL	possibly damaging
rs17124706	NP_954658	F	L	FL	possibly damaging
rs17124715	NP_954660	N	T	NT	benign
rs17124715	NP_443111	N	T	NT	benign
rs17124715	NP_954658	N	T	NT	benign
rs17124890	NP_112509	P	L	PL	probably damaging
rs17124927	NP_004684	M	T	MT	probably damaging
rs17124969	NP_031387	D	G	DG	possibly damaging
rs17125106	XP_371257	F	I	FI	possibly damaging
rs17125266	NP_036423	I	M	IM	benign
rs17125432	NP_004661	M	L	ML	benign
rs17125721	NP_015557	E	G	EG	benign
rs17125721	NP_000012	E	G	EG	benign
rs17125721	NP_015558	E	G	EG	possibly damaging
rs17126173	XP_372471	F	L	FL	benign
rs17126331	XP_370765	N	H	NH	benign
rs17126352	XP_370765	V	I	VI	benign
rs17126354	XP_370765	A	V	AV	benign
rs17126462	XP_372471	P	H	PH	probably damaging
rs17127015	NP_060111	G	D	GD	possibly damaging
rs17127066	NP_004661	V	M	VM	benign
rs17127223	XP_029353	A	E	AE	benign
rs17127716	NP_002294	T	A	TA	benign
rs17127898	NP_004230	M	L	ML	benign
rs17127947	XP_291838	L	R	LR	possibly damaging
rs17127950	XP_291838	I	V	IV	benign
rs17128116	NP_009017	L	P	LP	benign
rs17128175	XP_372436	M	V	MV	benign
rs17128187	XP_372437	T	S	TS	benign
rs17128190	XP_166777	S	T	ST	benign
rs17128199	XP_372436	G	R	GR	possibly damaging
rs17128275	NP_055565	T	I	TI	possibly damaging
rs17128366	NP_060841	F	Y	FY	benign
rs17128518	NP_060841	V	I	VI	benign
rs17128572	NP_005104	A	G	AG	benign
rs17128789	XP_166767	G	E	GE	possibly damaging
rs17129219	NP_005920	A	T	AT	probably damaging
rs17129772	NP_001550	M	V	MV	benign
rs17129792	NP_001550	R	Q	RQ	benign
rs17130717	NP_002044	E	D	ED	benign
rs17130745	NP_443173	K	E	KE	benign
rs17130763	NP_443174	E	Q	EQ	benign
rs17130769	XP_496370	G	S	GS	benign

rs17131242	NP_958357	M	V	MV	benign
rs17131602	NP_899065	K	R	KR	benign
rs17131635	XP_497688	R	Q	RQ	benign
rs17131640	XP_497688	V	A	VA	benign
rs17131745	XP_371261	A	P	AP	probably damaging
rs17131746	NP_056165	D	N	DN	possibly damaging
rs17131753	XP_497686	P	S	PS	benign
rs17131766	XP_496374	V	I	VI	benign
rs17131780	XP_015717	E	D	ED	benign
rs17131782	XP_015717	A	T	AT	benign
rs17131795	XP_497680	S	Y	SY	benign
rs17131854	XP_498223	G	S	GS	probably damaging
rs17131857	XP_498223	H	R	HR	benign
rs17131913	XP_498223	A	V	AV	benign
rs17131927	XP_496902	F	S	FS	probably damaging
rs17132047	NP_006333	C	Y	CY	benign
rs17132393	NP_061111	D	H	DH	benign
rs17132395	NP_061111	R	S	RS	benign
rs17132399	NP_061111	A	P	AP	benign
rs17132405	NP_061111	D	H	DH	possibly damaging
rs17132548	XP_498961	D	G	DG	possibly damaging
rs17132603	XP_498015	G	E	GE	benign
rs17132638	XP_498013	Y	C	YC	probably damaging
rs17132929	XP_498018	L	P	LP	possibly damaging
rs17133018	XP_497046	T	A	TA	benign
rs17133080	XP_497051	P	T	PT	possibly damaging
rs17133693	NP_113624	K	R	KR	benign
rs17134009	NP_150644	A	V	AV	benign
rs17134009	NP_000964	A	V	AV	benign
rs17134127	NP_056013	A	P	AP	benign
rs17134128	NP_056013	D	N	DN	benign
rs17134592	NP_001809	L	V	LV	benign
rs17134666	XP_375148	V	I	VI	benign
rs17134683	XP_496034	V	A	VA	benign
rs17134743	NP_077078	R	Q	RQ	benign
rs17134743	NP_003285	R	Q	RQ	benign
rs17134763	NP_000508	P	L	PL	probably damaging
rs17135251	NP_077078	V	A	VA	benign
rs17135251	NP_003285	V	A	VA	benign
rs17135737	NP_006444	S	P	SP	possibly damaging
rs17135779	NP_000287	M	V	MV	possibly damaging
rs17135782	NP_000287	Q	E	QE	benign
rs17135873	NP_659469	I	V	IV	benign
rs17135884	XP_497482	V	D	VD	possibly damaging
rs17135923	NP_659469	G	A	GA	possibly damaging
rs17136078	NP_872440	N	I	NI	possibly damaging

rs17136117	NP_000895	E	G	EG	possibly damaging
rs17136118	NP_659469	Y	C	YC	possibly damaging
rs17136239	NP_683762	Q	R	QR	benign
rs17136464	NP_115820	A	T	AT	benign
rs17137007	NP_078811	A	V	AV	benign
rs17137110	XP_496034	P	S	PS	benign
rs17137190	NP_055423	G	D	GD	benign
rs17137215	NP_631909	E	D	ED	benign
rs17137230	NP_631909	P	S	PS	benign
rs17137481	NP_061170	N	S	NS	benign
rs17137489	XP_370838	A	E	AE	possibly damaging
rs17137489	XP_496050	E	A	EA	possibly damaging
rs17138274	XP_380121	C	Y	CY	probably damaging
rs17138497	XP_496888	M	I	MI	benign
rs17138632	NP_776161	V	F	VF	benign
rs17138681	NP_776161	V	I	VI	benign
rs17139320	NP_699194	H	R	HR	possibly damaging
rs17141036	NP_000639	V	I	VI	benign
rs17141036	NP_000638	V	I	VI	benign
rs17142503	NP_877439	P	L	PL	probably damaging
rs17143165	NP_079189	I	T	IT	benign
rs17143175	XP_374765	P	S	PS	possibly damaging
rs17143212	XP_377933	T	I	TI	benign
rs17143304	NP_848654	A	T	AT	possibly damaging
rs17144072	NP_005754	D	N	DN	possibly damaging
rs17144210	NP_006035	T	I	TI	benign
rs17144625	NP_060424	A	T	AT	benign
rs17145454	NP_000405	W	R	WR	probably damaging
rs17145468	NP_115797	D	E	DE	benign
rs17145468	NP_003379	D	E	DE	benign
rs17145833	NP_115534	K	R	KR	benign
rs17145833	NP_683738	K	R	KR	benign
rs17145838	NP_115534	C	R	CR	probably damaging
rs17145838	NP_683738	C	R	CR	probably damaging
rs17145855	NP_659407	T	A	TA	benign
rs17145879	XP_498040	V	M	VM	benign
rs17145940	NP_942150	W	R	WR	benign
rs17146009	NP_849149	D	N	DN	benign
rs17146196	XP_496900	A	G	AG	benign
rs17146406	NP_078774	S	L	SL	benign
rs17146650	XP_496697	S	P	SP	benign
rs17146650	XP_496698	S	P	SP	benign
rs17146691	NP_004918	T	A	TA	benign
rs17146914	NP_079460	N	S	NS	benign
rs17146927	XP_496902	Y	S	YS	probably damaging
rs17146960	XP_166871	S	T	ST	benign

rs17147624	NP_700359	I	R	IR	probably damaging
rs17147624	NP_009061	I	R	IR	probably damaging
rs17147682	NP_061334	K	R	KR	benign
rs17147787	NP_663620	D	E	DE	benign
rs17147792	NP_663620	T	S	TS	benign
rs17147793	NP_009068	G	V	GV	probably damaging
rs17147987	NP_000191	R	Q	RQ	benign
rs17148058	XP_372387	M	R	MR	probably damaging
rs17148149	XP_168530	R	Q	RQ	benign
rs17148168	NP_066295	E	Q	EQ	benign
rs17148168	NP_783729	E	Q	EQ	benign
rs17148500	NP_775493	R	C	RC	probably damaging
rs17149023	NP_005329	M	K	MK	possibly damaging
rs17149149	NP_004034	N	K	NK	possibly damaging
rs17149410	NP_002043	A	P	AP	benign
rs17149685	NP_002177	E	Q	EQ	benign
rs17149685	NP_789743	E	Q	EQ	benign
rs17149694	NP_000918	S	T	ST	benign
rs17150243	XP_372393	W	G	WG	possibly damaging
rs17150317	XP_166825	I	M	IM	benign
rs17150343	NP_000836	I	T	IT	benign
rs17150411	XP_166805	R	C	RC	possibly damaging
rs17150488	NP_775759	K	R	KR	benign
rs17150554	XP_376921	R	Q	RQ	benign
rs17150578	XP_166831	Y	H	YH	probably damaging
rs17150664	XP_166834	G	S	GS	benign
rs17150982	NP_620166	A	T	AT	benign
rs17151044	NP_078799	R	W	RW	probably damaging
rs17151160	XP_376567	G	V	GV	probably damaging
rs17151510	XP_370557	T	R	TR	benign
rs17151510	XP_495809	T	R	TR	benign
rs17151689	XP_379881	W	L	WL	probably damaging
rs17151692	XP_379881	V	I	VI	benign
rs17151919	NP_000221	V	M	VM	benign
rs17151933	NP_003618	G	V	GV	benign
rs17152659	XP_497297	I	F	IF	benign
rs17152661	XP_497297	P	L	PL	possibly damaging
rs17152779	NP_000605	N	S	NS	benign
rs17152897	NP_877428	K	R	KR	benign
rs17152897	NP_060988	K	R	KR	benign
rs17153442	XP_166227	Q	R	QR	benign
rs17153510	NP_056423	A	T	AT	benign
rs17153524	NP_671724	R	H	RH	possibly damaging
rs17153561	NP_000366	K	R	KR	benign
rs17153610	NP_510868	E	Q	EQ	benign
rs17153610	NP_057651	E	Q	EQ	benign

rs17153669	NP_060650	V	L	VL	benign
rs17153691	XP_166898	F	L	FL	benign
rs17153732	XP_166899	I	V	IV	benign
rs17153766	XP_166900	E	Q	EQ	possibly damaging
rs17153770	XP_166900	F	S	FS	possibly damaging
rs17153828	NP_659480	R	L	RL	benign
rs17153879	NP_660278	P	L	PL	probably damaging
rs17153882	NP_660278	R	S	RS	benign
rs17153976	NP_660278	C	F	CF	probably damaging
rs17153992	NP_680090	S	N	SN	benign
rs17153992	NP_680091	S	N	SN	benign
rs17153992	NP_680092	S	N	SN	benign
rs17153992	NP_680093	S	N	SN	benign
rs17153992	NP_001899	S	N	SN	benign
rs17154335	NP_000432	V	G	VG	benign
rs17154353	NP_000432	G	S	GS	benign
rs17154402	NP_003921	S	T	ST	benign
rs17154661	NP_002282	V	A	VA	possibly damaging
rs17154996	XP_068889	E	K	EK	benign
rs17155115	NP_056031	A	G	AG	benign
rs17155138	NP_056031	P	Q	PQ	benign
rs17155147	NP_056031	T	M	TM	benign
rs17155841	NP_055039	T	A	TA	benign
rs17155937	NP_036460	R	H	RH	benign
rs17157773	XP_375243	V	I	VI	benign
rs17158223	NP_004830	I	S	IS	benign
rs17158223	NP_955362	I	S	IS	benign
rs17158450	NP_997400	T	A	TA	benign
rs17158558	NP_065681	R	C	RC	possibly damaging
rs17158558	NP_066124	R	C	RC	possibly damaging
rs17158955	NP_055568	I	V	IV	benign
rs17159259	XP_370838	Q	R	QR	benign
rs17159259	XP_058720	R	Q	RQ	benign
rs17159287	NP_002038	R	Q	RQ	benign
rs17159388	NP_078828	R	Q	RQ	benign
rs17159453	NP_115598	S	L	SL	possibly damaging
rs17160151	NP_115823	S	N	SN	benign
rs17160194	NP_115823	N	I	NI	benign
rs17160348	NP_078828	V	A	VA	benign
rs17160349	NP_078828	Q	R	QR	benign
rs17160442	NP_647475	E	D	ED	benign
rs17160443	NP_647475	A	S	AS	benign
rs17160444	NP_647475	A	V	AV	benign
rs17160446	NP_647475	S	T	ST	benign
rs17160775	XP_372195	V	I	VI	benign
rs17160850	XP_376679	P	A	PA	probably damaging



rs17160911	NP_940910	G	A	GA	benign
rs17161011	NP_114127	V	I	VI	benign
rs17161026	NP_000831	G	D	GD	benign
rs17161097	XP_498810	L	S	LS	benign
rs17161351	XP_496859	V	L	VL	benign
rs17161356	NP_073587	A	V	AV	benign
rs17161477	NP_690877	E	V	EV	possibly damaging
rs17161510	NP_003487	R	L	RL	probably damaging
rs17161815	XP_375268	N	K	NK	benign
rs17162358	NP_002310	V	M	VM	benign
rs17162549	NP_004663	G	A	GA	benign
rs17162563	XP_378185	K	E	KE	benign
rs17163024	XP_498223	K	R	KR	benign
rs17163640	NP_006305	R	W	RW	benign
rs17163979	XP_496354	S	A	SA	benign
rs17164077	NP_003695	V	M	VM	benign
rs17164164	NP_795363	V	L	VL	benign
rs17164829	NP_079179	P	H	PH	probably damaging
rs17164935	NP_115822	R	K	RK	benign
rs17165111	XP_374489	G	A	GA	benign
rs17165851	NP_003678	G	C	GC	probably damaging
rs17165872	XP_371878	C	F	CF	probably damaging
rs17165906	XP_371878	C	F	CF	probably damaging
rs17165910	XP_371878	E	K	EK	benign
rs17165956	NP_005859	K	E	KE	benign
rs17166048	XP_497031	D	N	DN	benign
rs17166048	XP_372092	N	D	ND	benign
rs17166151	XP_209728	R	W	RW	probably damaging
rs17166250	NP_149119	F	L	FL	benign
rs17167102	XP_209824	R	Q	RQ	benign
rs17167553	NP_653249	D	Y	DY	probably damaging
rs17167927	XP_295195	A	P	AP	benign
rs17169357	XP_294357	P	T	PT	benign
rs17171345	NP_647477	M	I	MI	benign
rs17171345	NP_001626	M	I	MI	benign
rs17171594	NP_064577	F	S	FS	benign
rs17173049	NP_006728	A	T	AT	benign
rs17173051	NP_703144	V	I	VI	benign
rs17173080	XP_498425	S	A	SA	benign
rs17173081	NP_055327	L	V	LV	benign
rs17173097	NP_055327	K	R	KR	probably damaging
rs17173108	NP_002246	T	A	TA	benign
rs17173120	XP_498425	G	R	GR	benign
rs17173120	NP_037421	R	G	RG	benign
rs17173147	NP_002775	H	R	HR	benign
rs17173147	NP_002773	R	H	RH	benign

rs17173150	NP_008836	L	F	LF	benign
rs17173151	NP_008836	N	K	NK	benign
rs17173152	NP_066296	K	N	KN	benign
rs17173154	NP_066296	N	T	NT	benign
rs17173158	NP_008836	A	V	AV	benign
rs17173161	NP_008836	E	Q	EQ	benign
rs17173162	NP_008836	T	A	TA	benign
rs17173163	NP_008836	E	K	EK	benign
rs17173163	NP_112536	E	K	EK	benign
rs17173221	NP_060730	D	E	DE	benign
rs17173249	NP_037421	G	R	GR	possibly damaging
rs17173249	XP_498425	W	R	WR	probably damaging
rs17173294	NP_057287	M	L	ML	benign
rs17173323	XP_372191	R	C	RC	possibly damaging
rs17173509	NP_000210	G	A	GA	possibly damaging
rs17173519	NP_078987	V	I	VI	benign
rs17173698	NP_004661	E	K	EK	benign
rs17173702	NP_037532	R	H	RH	benign
rs17173702	NP_055189	R	H	RH	benign
rs17173703	NP_037532	A	V	AV	benign
rs17173703	NP_055189	A	V	AV	benign
rs17173746	NP_671724	A	T	AT	benign
rs17173752	NP_000366	V	G	VG	benign
rs17174019	NP_001459	D	H	DH	benign
rs17174078	NP_003877	H	R	HR	benign
rs17174078	NP_647450	H	R	HR	benign
rs17174358	NP_000108	S	P	SP	benign
rs17174624	NP_477352	G	R	GR	probably damaging
rs17178299	NP_001472	R	Q	RQ	benign
rs17179194	NP_878918	D	N	DN	benign
rs17180362	NP_005922	D	N	DN	benign
rs17182272	NP_003735	V	I	VI	benign
rs17183577	NP_060527	D	V	DV	benign
rs17183769	NP_055493	R	K	RK	benign
rs17183814	NP_066287	R	K	RK	benign
rs17184326	NP_055844	N	K	NK	benign
rs17185189	NP_001163	H	R	HR	benign
rs17187262	NP_937762	T	N	TN	benign
rs17188228	NP_899243	I	V	IV	benign
rs17188964	NP_037432	R	G	RG	possibly damaging
rs17189743	XP_371494	R	C	RC	benign
rs17191998	XP_497522	R	C	RC	benign
rs17192170	NP_056161	T	S	TS	benign
rs17197552	NP_002709	S	G	SG	benign
rs17198125	NP_775760	E	V	EV	possibly damaging
rs17199104	XP_372376	D	N	DN	benign

rs17201603	XP_047357	P	L	PL	benign
rs17202741	NP_115823	N	T	NT	benign
rs17202961	NP_937762	P	T	PT	possibly damaging
rs17203645	NP_004517	A	T	AT	benign
rs17204075	NP_057453	M	L	ML	benign
rs17204557	NP_849144	P	S	PS	possibly damaging
rs17208187	NP_060972	S	T	ST	benign
rs17208285	NP_113688	P	S	PS	benign
rs17208285	NP_061730	P	S	PS	benign
rs17208383	NP_037472	A	V	AV	benign
rs17208390	NP_114479	S	P	SP	benign
rs17208390	NP_061736	S	P	SP	benign
rs17208397	NP_115272	V	L	VL	benign
rs17208397	NP_061750	V	L	VL	benign
rs17209274	NP_003495	M	R	MR	probably damaging
rs17210864	XP_497390	T	A	TA	benign
rs17211285	XP_063315	L	F	LF	possibly damaging
rs17211369	NP_009041	R	Q	RQ	benign
rs17211404	NP_009041	K	R	KR	benign
rs17214794	NP_055426	M	V	MV	benign
rs17215306	NP_775494	L	S	LS	possibly damaging
rs17216532	XP_084482	A	P	AP	benign
rs17216603	NP_055614	A	T	AT	benign
rs17216603	NP_620074	A	T	AT	benign
rs17217280	NP_055129	D	E	DE	benign
rs17218581	NP_008974	R	Q	RQ	benign
rs17218950	NP_689985	D	N	DN	benign
rs17219559	NP_722516	M	V	MV	benign
rs17220759	NP_000037	V	M	VM	benign
rs17220759	NP_942002	V	M	VM	benign
rs17220978	NP_002353	T	A	TA	benign
rs17221458	XP_291141	V	I	VI	benign
rs17221521	XP_291141	G	E	GE	possibly damaging
rs17221796	NP_061136	S	L	SL	benign
rs17223634	XP_372076	R	L	RL	benign
rs17224476	NP_689643	S	N	SN	benign
rs17224674	XP_062553	R	Q	RQ	benign
rs17224810	NP_059136	V	I	VI	benign
rs17225637	NP_055244	K	M	KM	benign
rs17226367	NP_002828	G	A	GA	benign
rs17227996	NP_002411	N	T	NT	benign
rs17229136	NP_003307	M	T	MT	benign
rs17230134	NP_945182	S	G	SG	benign
rs17234326	XP_372369	I	T	IT	benign
rs17238798	NP_653320	R	W	RW	possibly damaging
rs17238800	NP_060292	N	S	NS	benign

rs17240212	NP_001141	I	K	IK	benign
rs17240268	NP_001141	A	V	AV	benign
rs17240895	XP_496854	P	A	PA	probably damaging
rs17243826	NP_068774	E	K	EK	benign
rs17244632	NP_055715	T	I	TI	benign
rs17245714	NP_114106	P	R	PR	benign
rs17246013	NP_006819	V	A	VA	benign
rs17248287	NP_065194	V	M	VM	benign
rs17248811	NP_056473	A	V	AV	benign
rs17249244	XP_045911	T	S	TS	benign
rs17253672	NP_060098	P	L	PL	benign
rs17254305	NP_872413	V	I	VI	benign
rs17255978	NP_068367	V	I	VI	benign
rs17255978	NP_057435	V	I	VI	benign
rs17255978	NP_068368	V	I	VI	benign
rs17255978	NP_068369	V	I	VI	benign
rs17257155	XP_371237	I	V	IV	benign
rs17258507	NP_588616	N	S	NS	possibly damaging
rs17258982	NP_001868	I	V	IV	benign
rs17259045	NP_000642	N	S	NS	benign
rs17259045	NP_000564	N	S	NS	benign
rs17259953	NP_056234	V	I	VI	benign
rs17260829	NP_065806	S	G	SG	benign
rs17261572	NP_689905	D	E	DE	benign
rs17262467	XP_495863	I	T	IT	possibly damaging
rs17263496	NP_001360	T	I	TI	possibly damaging
rs17263971	XP_050219	Q	H	QH	benign
rs17264865	NP_004640	V	M	VM	benign
rs17265513	NP_055850	N	S	NS	benign
rs17268666	NP_056167	L	F	LF	benign
rs17271239	XP_371586	N	D	ND	benign
rs17271416	NP_061918	A	T	AT	benign
rs17273141	XP_209163	L	V	LV	benign
rs17273542	NP_003820	S	L	SL	benign
rs17274058	NP_742023	T	I	TI	benign
rs17274058	NP_742021	T	I	TI	benign
rs17274543	NP_037506	V	I	VI	benign
rs17277221	XP_063315	Y	H	YH	possibly damaging
rs17277228	XP_063315	C	R	CR	possibly damaging
rs17277270	XP_372507	T	S	TS	benign
rs17277288	NP_005149	K	R	KR	benign
rs17277288	NP_009298	K	R	KR	benign
rs17277522	XP_292227	R	H	RH	benign
rs17279437	NP_064593	T	M	TM	benign
rs17279712	NP_056417	Q	H	QH	possibly damaging
rs17280095	NP_055884	V	A	VA	benign

rs17280293	NP_065188	S	G	SG	benign
rs17280682	NP_789792	L	F	LF	benign
rs17281055	XP_498064	M	K	MK	possibly damaging
rs17281139	NP_777622	C	R	CR	benign
rs17281188	NP_277053	T	M	TM	probably damaging
rs17281349	NP_542179	P	S	PS	probably damaging
rs17281983	NP_775965	Y	C	YC	probably damaging
rs17282618	NP_005038	L	H	LH	probably damaging
rs17282855	XP_040486	R	K	RK	benign
rs17284963	NP_085142	S	G	SG	benign
rs17286758	NP_078788	T	A	TA	benign
rs17286758	NP_079026	T	A	TA	benign
rs17286891	NP_061763	E	K	EK	possibly damaging
rs17288108	NP_067052	H	Y	HY	benign
rs17290219	NP_443728	Q	P	QP	probably damaging
rs17292952	NP_008949	A	T	AT	benign
rs17293121	NP_055426	R	L	RL	possibly damaging
rs17293607	NP_002416	G	R	GR	benign
rs17293690	NP_004817	L	P	LP	possibly damaging
rs17293705	NP_002331	P	L	PL	probably damaging
rs17297951	NP_057107	R	Q	RQ	benign
rs17298044	XP_498210	E	G	EG	possibly damaging
rs17299946	NP_542454	I	V	IV	benign
rs17300141	NP_000895	G	D	GD	possibly damaging
rs17300770	NP_001494	D	E	DE	benign
rs17300936	NP_000553	P	L	PL	benign
rs17301126	NP_777557	T	M	TM	benign
rs17301368	XP_294328	G	S	GS	benign
rs17301717	XP_376254	S	F	SF	benign
rs17301750	XP_370652	T	A	TA	benign
rs17301766	NP_008958	S	L	SL	possibly damaging
rs17302207	XP_046531	R	W	RW	possibly damaging
rs17302315	XP_373252	S	N	SN	benign
rs17302349	XP_376254	Y	C	YC	probably damaging
rs17305122	XP_064903	R	K	RK	benign
rs17305382	NP_006819	R	T	RT	possibly damaging
rs17308108	XP_063308	L	R	LR	benign
rs17310144	NP_073594	P	T	PT	possibly damaging
rs17310879	NP_612565	F	L	FL	benign
rs17310879	NP_004847	F	L	FL	benign
rs17312570	XP_498374	A	S	AS	benign
rs17313374	NP_443198	V	M	VM	benign
rs17313469	NP_000283	E	Q	EQ	benign
rs17313892	NP_002378	S	C	SC	benign
rs17314986	NP_000222	R	H	RH	probably damaging
rs17315645	NP_009199	G	E	GE	possibly damaging

rs17315702	NP_872431	C	R	CR	possibly damaging
rs17316491	NP_940912	W	S	WS	probably damaging
rs17318151	NP_787059	I	V	IV	benign
rs17318151	NP_065783	I	V	IV	benign
rs17318151	NP_059989	I	V	IV	benign
rs17322140	NP_006865	P	L	PL	probably damaging
rs17323082	NP_064709	Q	E	QE	benign
rs17323225	NP_000370	I	V	IV	benign
rs17324153	NP_055581	Q	R	QR	possibly damaging
rs17324609	XP_171424	A	V	AV	benign
rs17324812	XP_171424	T	A	TA	benign
rs17325713	NP_055178	A	T	AT	benign
rs17327254	XP_061627	F	L	FL	benign
rs17327911	NP_775493	K	Q	KQ	benign
rs17328034	NP_055066	E	K	EK	benign
rs17328091	NP_066274	Q	E	QE	benign
rs17328673	NP_004052	I	V	IV	benign
rs17330993	NP_003909	R	C	RC	possibly damaging
rs17332043	XP_088735	R	W	RW	possibly damaging
rs17332410	NP_775789	L	V	LV	benign
rs17333103	NP_002629	T	M	TM	benign
rs17334013	XP_495929	V	L	VL	benign
rs17334247	NP_071348	P	S	PS	possibly damaging
rs17335205	NP_056234	P	S	PS	benign
rs17335870	NP_003105	E	K	EK	benign
rs17335870	NP_757367	E	K	EK	benign
rs17335909	XP_172801	R	W	RW	possibly damaging
rs17336208	NP_003463	V	A	VA	benign
rs17337252	NP_055596	T	M	TM	possibly damaging
rs17338483	NP_003590	D	E	DE	benign
rs17338483	NP_852001	D	E	DE	benign
rs17340519	NP_114100	Y	H	YH	probably damaging
rs17343262	XP_370567	I	V	IV	benign
rs17343819	NP_065094	N	S	NS	benign
rs17345000	NP_001664	E	V	EV	benign
rs17345000	NP_597680	E	V	EV	benign
rs17345000	NP_899199	E	V	EV	benign
rs17345690	NP_659498	T	A	TA	benign
rs17345786	XP_497928	N	K	NK	probably damaging
rs17346571	XP_372760	T	K	TK	benign
rs17347958	NP_543024	R	H	RH	possibly damaging
rs17348572	NP_071414	I	T	IT	benign
rs17350764	XP_061611	V	I	VI	possibly damaging
rs17350795	NP_036363	S	N	SN	benign
rs17350795	NP_056950	S	N	SN	benign
rs17351999	NP_775758	H	R	HR	probably damaging

rs17354559	NP_006090	S	C	SC	benign
rs17356233	NP_004275	H	Q	HQ	possibly damaging
rs17357122	NP_001815	T	M	TM	benign
rs17360994	NP_689578	Q	R	QR	benign
rs17362028	XP_496859	L	W	LW	possibly damaging
rs17362076	NP_659427	A	T	AT	benign
rs17362588	NP_775919	R	W	RW	possibly damaging
rs17363472	NP_078779	Q	H	QH	benign
rs17366743	NP_004788	Y	H	YH	benign
rs17366880	XP_496374	H	R	HR	benign
rs17368018	NP_055806	I	V	IV	benign
rs17368026	NP_002273	I	M	IM	possibly damaging
rs17368348	NP_002273	C	R	CR	possibly damaging
rs17368402	NP_653300	E	K	EK	possibly damaging
rs17368528	NP_004276	P	L	PL	probably damaging
rs17368556	NP_004276	Y	S	YS	probably damaging
rs17369441	NP_877498	A	V	AV	benign
rs17369441	NP_653297	A	V	AV	benign
rs17370297	NP_056011	M	T	MT	benign
rs17373919	XP_376254	K	Q	KQ	benign
rs17374285	NP_005495	T	M	TM	benign
rs17374422	XP_373252	L	P	LP	probably damaging
rs17374761	XP_040527	T	M	TM	benign
rs17375215	NP_060520	D	N	DN	benign
rs17375461	NP_055899	D	G	DG	benign
rs17379472	NP_958933	M	T	MT	benign
rs17379472	NP_958932	M	T	MT	benign
rs17379472	NP_005673	M	T	MT	benign
rs17383738	XP_370573	N	D	ND	benign
rs17384126	NP_036218	N	S	NS	benign
rs17386226	NP_061027	V	L	VL	benign
rs17388190	NP_525124	P	S	PS	probably damaging
rs17388443	NP_000219	R	W	RW	probably damaging
rs17392327	NP_057656	P	T	PT	possibly damaging
rs17392327	NP_036607	P	T	PT	possibly damaging
rs17393797	NP_006608	R	S	RS	benign
rs17395842	XP_496813	E	K	EK	benign
rs17396722	XP_497684	G	R	GR	possibly damaging
rs17399297	NP_788954	D	N	DN	benign
rs17399721	NP_060423	G	R	GR	possibly damaging
rs17399768	XP_371480	I	L	IL	benign
rs17399810	NP_940949	S	F	SF	benign
rs17402034	XP_375024	R	H	RH	possibly damaging
rs17402080	NP_619526	E	K	EK	benign
rs17402892	NP_060921	S	A	SA	benign
rs17404424	XP_498075	V	M	VM	benign

rs17405421	NP_060492	V	A	VA	benign
rs17406460	NP_937998	A	V	AV	benign
rs17406460	NP_036576	A	V	AV	benign
rs17407084	NP_689785	D	G	DG	possibly damaging
rs17407838	XP_496422	D	E	DE	benign
rs17409162	NP_060545	M	T	MT	possibly damaging
rs17409304	NP_006527	Q	E	QE	benign
rs17410000	NP_060826	T	P	TP	possibly damaging
rs17410855	NP_689713	V	I	VI	benign
rs17412684	XP_061427	P	Q	PQ	probably damaging
rs17414086	NP_056386	M	T	MT	benign
rs17416074	NP_005067	V	I	VI	benign
rs17419546	NP_000543	A	T	AT	benign
rs17420230	NP_115640	Y	C	YC	probably damaging
rs17420378	NP_006273	V	M	VM	benign
rs17420650	XP_497071	Y	C	YC	probably damaging
rs17421133	NP_115859	N	I	NI	probably damaging
rs17421294	NP_115859	R	W	RW	probably damaging
rs17422688	NP_663627	H	Y	HY	benign
rs17424158	NP_005923	R	Q	RQ	benign
rs17428626	NP_659429	D	E	DE	benign
rs17429033	NP_060864	I	V	IV	benign
rs17429619	NP_612398	V	I	VI	benign
rs17430220	XP_376318	M	T	MT	benign
rs17430900	XP_497790	R	Q	RQ	benign
rs17431446	XP_495934	S	L	SL	benign
rs17431878	NP_057520	V	M	VM	benign
rs17432496	NP_065847	R	H	RH	benign
rs17432615	NP_056067	K	Q	KQ	benign
rs17433780	NP_060754	C	R	CR	benign
rs17433801	NP_060754	V	M	VM	benign
rs17435753	NP_061060	P	S	PS	possibly damaging
rs17438900	NP_937822	F	V	FV	possibly damaging
rs17440466	XP_059482	L	P	LP	possibly damaging
rs17440813	NP_848551	I	V	IV	benign
rs17442970	NP_659484	V	L	VL	benign
rs17445374	NP_597730	D	G	DG	possibly damaging
rs17448235	NP_689737	I	V	IV	benign
rs17449032	NP_002017	I	V	IV	benign
rs17449032	NP_997639	I	V	IV	benign
rs17449032	NP_997640	I	V	IV	benign
rs17449032	NP_997641	I	V	IV	benign
rs17449032	NP_997643	I	V	IV	benign
rs17449032	NP_997647	I	V	IV	benign
rs17450634	XP_496703	V	A	VA	possibly damaging
rs17451564	XP_371778	T	A	TA	benign



rs17454674	NP_001469	A	V	AV	benign
rs17459334	NP_003267	Q	E	QE	benign
rs17459809	NP_996672	G	E	GE	possibly damaging
rs17462252	NP_065186	S	N	SN	benign
rs17463684	XP_497680	V	I	VI	benign
rs17467855	NP_005579	V	L	VL	benign
rs17468739	NP_001538	E	A	EA	benign
rs17469079	XP_069616	S	I	SI	benign
rs17469121	XP_069616	S	R	SR	benign
rs17470454	NP_898862	P	S	PS	possibly damaging
rs17472401	NP_055917	R	W	RW	possibly damaging
rs17472776	XP_114301	L	P	LP	probably damaging
rs17475375	NP_037522	G	D	GD	benign
rs17475656	XP_210169	V	L	VL	benign
rs17475800	NP_073743	A	V	AV	possibly damaging
rs17476783	NP_055433	R	H	RH	benign
rs17479168	NP_733844	V	I	VI	benign
rs17481405	NP_061486	R	Q	RQ	benign
rs17481405	NP_005553	R	Q	RQ	benign
rs17482078	NP_057526	Q	R	QR	possibly damaging
rs17484219	NP_057279	E	D	ED	benign
rs17490221	NP_004963	D	E	DE	benign
rs17496835	NP_954712	H	Q	HQ	probably damaging
rs17497479	NP_071447	A	S	AS	benign
rs17500380	XP_166900	D	A	DA	possibly damaging
rs17501584	XP_372413	Q	R	QR	probably damaging
rs17502618	NP_689628	I	F	IF	benign
rs17502738	NP_055687	D	G	DG	possibly damaging
rs17502829	XP_497020	K	N	KN	benign
rs17503413	NP_003864	F	L	FL	possibly damaging
rs17506606	XP_495798	A	G	AG	benign
rs17506843	NP_689783	R	H	RH	possibly damaging
rs17507714	XP_067904	S	L	SL	possibly damaging
rs17509489	NP_291032	T	M	TM	benign
rs17511304	XP_496357	L	P	LP	probably damaging
rs17511668	NP_060647	S	I	SI	benign
rs17512204	NP_061917	P	L	PL	probably damaging
rs17513642	NP_056969	H	Y	HY	benign
rs17513722	XP_291019	I	V	IV	benign
rs17514547	NP_006188	R	H	RH	possibly damaging
rs17515016	NP_872409	N	D	ND	benign
rs17517260	NP_067002	F	S	FS	benign
rs17517578	NP_071896	A	T	AT	benign
rs17521570	NP_056392	A	T	AT	benign
rs17524906	NP_056078	T	M	TM	benign
rs17525809	NP_002553	V	A	VA	benign

rs17525809	NP_803176	V	A	VA	benign
rs17526980	NP_056069	V	I	VI	benign
rs17531522	XP_372391	I	V	IV	benign
rs17531723	NP_954984	V	I	VI	benign
rs17535963	NP_996830	T	N	TN	benign
rs17535963	NP_996829	T	N	TN	benign
rs17535963	NP_066003	T	N	TN	benign
rs17535963	NP_996828	T	N	TN	benign
rs17535963	NP_996827	T	N	TN	benign
rs17535963	NP_079247	T	N	TN	benign
rs17536349	NP_849150	E	D	ED	benign
rs17540213	XP_037817	S	C	SC	possibly damaging
rs17541107	NP_722581	L	M	LM	benign
rs17541405	NP_055684	V	I	VI	benign
rs17544587	XP_059384	P	S	PS	benign
rs17545756	NP_009119	R	C	RC	probably damaging
rs17546579	XP_043118	I	V	IV	benign
rs17546822	XP_085634	Q	R	QR	benign
rs17547207	XP_497294	V	L	VL	benign
rs17550713	NP_079055	V	A	VA	possibly damaging
rs17551608	NP_056053	R	C	RC	possibly damaging
rs17554211	NP_037495	P	T	PT	benign
rs17554462	NP_001803	F	L	FL	benign
rs17555920	NP_077816	E	K	EK	benign
rs17556966	NP_997382	G	A	GA	benign
rs17558193	NP_777612	Y	H	YH	benign
rs17558532	NP_853515	A	T	AT	benign
rs17558560	NP_853515	G	S	GS	benign
rs17558995	NP_853513	A	T	AT	benign
rs17561762	NP_004770	L	P	LP	benign
rs17563089	NP_079339	N	S	NS	benign
rs17563407	XP_498198	N	S	NS	benign
rs17563617	NP_060725	T	P	TP	benign
rs17570718	NP_149033	K	T	KT	benign
rs17572019	NP_573570	V	I	VI	benign
rs17574839	NP_006150	N	D	ND	benign
rs17575212	NP_000177	N	T	NT	benign
rs17577109	NP_001609	P	S	PS	benign
rs17578364	XP_034086	F	V	FV	benign
rs17579447	NP_005897	D	E	DE	benign
rs17579502	XP_088551	L	F	LF	benign
rs17581133	NP_004743	P	A	PA	possibly damaging
rs17581141	NP_004249	R	Q	RQ	benign
rs17583782	NP_002109	T	A	TA	benign
rs17584642	NP_036221	R	G	RG	possibly damaging
rs17585974	NP_056258	K	T	KT	benign

rs17586516	XP_497978	R	Q	RQ	possibly damaging
rs17587634	NP_660346	I	V	IV	benign
rs17591320	NP_660301	H	Y	HY	benign
rs17593501	XP_496962	S	R	SR	benign
rs17594503	NP_003610	R	Q	RQ	benign
rs17596156	XP_497064	R	W	RW	benign
rs17597625	NP_006628	R	G	RG	benign
rs17598321	NP_078802	M	I	MI	benign
rs17598321	NP_573444	M	I	MI	benign
rs17598321	NP_620641	M	I	MI	benign
rs17599091	NP_000244	Q	E	QE	benign
rs17599410	XP_208320	V	L	VL	benign
rs17599639	NP_001363	R	H	RH	probably damaging
rs17600994	XP_373030	E	Q	EQ	benign
rs17601580	NP_005012	S	N	SN	benign
rs17602409	XP_166420	I	M	IM	benign
rs17603649	NP_065868	R	W	RW	possibly damaging
rs17604693	NP_004406	I	F	IF	benign
rs17605622	NP_619643	S	L	SL	benign
rs17605670	NP_000837	T	S	TS	benign
rs17609459	NP_005791	A	P	AP	benign
rs17610219	NP_114162	Y	H	YH	benign
rs17610395	NP_001867	A	T	AT	benign
rs17611716	NP_001547	A	T	AT	benign
rs17611765	XP_376679	D	E	DE	benign
rs17611866	NP_694573	V	A	VA	benign
rs17612126	NP_002171	T	K	TK	benign
rs17612341	NP_066024	R	P	RP	possibly damaging
rs17612861	NP_001363	D	N	DN	benign
rs17612861	NP_004653	D	N	DN	benign
rs17614393	XP_062890	I	T	IT	probably damaging
rs17615477	XP_061871	V	F	VF	benign
rs17616226	NP_057615	R	S	RS	benign
rs17616661	NP_056308	M	T	MT	benign
rs17616994	NP_872298	T	M	TM	possibly damaging
rs17617270	NP_996763	A	V	AV	benign
rs17617321	NP_002109	S	N	SN	benign
rs17617333	NP_002109	D	V	DV	benign
rs17617459	NP_056994	G	S	GS	possibly damaging
rs17618244	NP_783864	R	Q	RQ	benign
rs17618262	NP_783864	Y	H	YH	benign
rs17618630	XP_496300	R	Q	RQ	possibly damaging
rs17619568	NP_075383	A	V	AV	benign
rs17621411	NP_689976	A	V	AV	benign
rs17623803	NP_644810	E	Q	EQ	benign
rs17624798	NP_569732	I	T	IT	possibly damaging

rs17624860	NP_001803	D	G	DG	benign
rs17625943	NP_733828	A	T	AT	benign
rs17629834	NP_071888	P	T	PT	possibly damaging
rs17630362	NP_872425	A	V	AV	benign
rs17630836	NP_954976	I	M	IM	benign
rs17632542	NP_001639	I	T	IT	benign
rs17632786	NP_003237	N	S	NS	possibly damaging
rs17634387	XP_371755	W	R	WR	probably damaging
rs17634853	XP_371755	R	Q	RQ	benign
rs17634865	XP_371755	P	S	PS	benign
rs17635381	NP_006188	A	S	AS	benign
rs17636067	NP_004306	V	I	VI	benign
rs17636067	NP_808592	V	I	VI	benign
rs17637304	XP_497370	T	I	TI	possibly damaging
rs17637756	NP_001482	P	R	PR	probably damaging
rs17641067	NP_055514	I	M	IM	benign
rs17641078	NP_870987	E	Q	EQ	benign
rs17641488	NP_115761	R	H	RH	benign
rs17645232	NP_005145	D	G	DG	probably damaging
rs17646069	NP_821077	V	A	VA	benign
rs17646274	XP_292197	L	P	LP	probably damaging
rs17646457	NP_037363	R	Q	RQ	benign
rs17647207	XP_370651	A	T	AT	benign
rs17647302	NP_733796	P	L	PL	probably damaging
rs17647302	NP_775299	P	L	PL	probably damaging
rs17647302	NP_777480	P	L	PL	probably damaging
rs17647806	NP_006742	P	L	PL	benign
rs17648128	NP_861454	S	N	SN	benign
rs17650440	NP_061198	P	L	PL	probably damaging
rs17651549	NP_058519	R	W	RW	possibly damaging
rs17653122	XP_293923	I	T	IT	benign
rs17653152	XP_293923	P	T	PT	possibly damaging
rs17653265	NP_000156	A	V	AV	benign
rs17653374	NP_060325	I	T	IT	benign
rs17654693	XP_497629	M	K	MK	benign
rs17655123	NP_056495	P	L	PL	probably damaging
rs17656320	NP_870989	Y	F	YF	possibly damaging
rs17656320	NP_870990	Y	F	YF	possibly damaging
rs17656320	NP_000835	Y	F	YF	possibly damaging
rs17656599	NP_056013	P	L	PL	benign
rs17658935	XP_166450	A	G	AG	benign
rs17659073	NP_055256	K	E	KE	benign
rs17659179	XP_371116	K	N	KN	benign
rs17660042	NP_861439	R	H	RH	possibly damaging
rs17661626	NP_113689	A	V	AV	benign
rs17661626	NP_061731	A	V	AV	benign

rs17662853	NP_056258	T	I	TI	benign
rs17664065	XP_496963	R	Q	RQ	benign
rs17665219	XP_496227	Q	R	QR	benign
rs17665299	XP_371192	G	S	GS	benign
rs17667603	NP_068813	R	S	RS	probably damaging
rs17667857	NP_055059	E	K	EK	benign
rs17670506	NP_004067	R	Q	RQ	possibly damaging
rs17670870	NP_777637	T	S	TS	benign
rs17672542	NP_689621	I	T	IT	benign
rs17673268	NP_982272	A	V	AV	benign
rs17673844	XP_497249	A	G	AG	benign
rs17674097	NP_065121	G	A	GA	benign
rs17674449	NP_056998	A	V	AV	benign
rs17677811	XP_031689	C	R	CR	probably damaging
rs17677991	XP_031689	P	A	PA	possibly damaging
rs17678945	NP_006112	A	S	AS	benign
rs17679445	NP_060599	R	Q	RQ	benign
rs17679537	XP_290865	R	K	RK	benign
rs17680541	XP_496300	K	T	KT	benign
rs17680844	NP_002771	L	V	LV	benign
rs17680844	NP_998798	L	V	LV	benign
rs17680862	XP_290684	S	T	ST	benign
rs17681684	NP_004237	D	N	DN	benign
rs17681870	NP_003695	I	V	IV	benign
rs17681908	NP_006624	R	W	RW	probably damaging
rs17683011	NP_000334	N	S	NS	benign
rs17683012	XP_497949	V	M	VM	benign
rs17683288	NP_055444	S	A	SA	benign
rs17683306	XP_048786	R	H	RH	possibly damaging
rs17683430	NP_000334	A	T	AT	benign
rs17684500	NP_653275	M	T	MT	benign
rs17684521	NP_759018	N	S	NS	possibly damaging
rs17684521	NP_525022	N	S	NS	possibly damaging
rs17685098	NP_892018	R	W	RW	possibly damaging
rs17685450	NP_006596	Y	C	YC	possibly damaging
rs17685621	NP_061762	Y	H	YH	probably damaging
rs17686210	XP_166780	K	R	KR	benign
rs17686437	NP_064542	M	T	MT	benign
rs17686569	NP_061142	Q	R	QR	benign
rs17686569	NP_758424	Q	R	QR	benign
rs17687375	NP_689628	I	V	IV	benign
rs17688097	XP_496799	R	Q	RQ	benign
rs17688567	NP_115532	P	S	PS	probably damaging
rs17688567	NP_076414	P	S	PS	probably damaging
rs17688627	NP_787028	A	V	AV	possibly damaging
rs17688672	NP_787028	H	R	HR	benign

rs17688948	NP_004860	I	M	IM	benign
rs17689215	NP_071396	M	V	MV	benign
rs17690195	NP_003793	R	Q	RQ	benign
rs17690300	NP_003194	E	D	ED	benign
rs17690844	XP_372031	K	T	KT	benign
rs17690899	NP_828848	A	G	AG	benign
rs17694469	NP_113610	S	N	SN	benign
rs17694549	NP_079379	L	F	LF	possibly damaging
rs17694720	NP_004295	F	S	FS	possibly damaging
rs17694739	NP_003165	A	V	AV	benign
rs17694739	NP_068506	A	V	AV	benign
rs17695181	XP_497591	Q	P	QP	benign
rs17695651	XP_497639	R	G	RG	benign
rs17696719	XP_496895	I	V	IV	benign
rs17697947	NP_002153	I	V	IV	benign
rs17698526	NP_001175	R	Q	RQ	benign
rs17699016	NP_055033	F	V	FV	possibly damaging
rs17699678	NP_060322	T	M	TM	possibly damaging
rs17703111	NP_115958	Y	C	YC	probably damaging
rs17704703	XP_373461	Q	P	QP	benign
rs17704912	NP_115997	W	S	WS	probably damaging
rs17705609	NP_689475	L	S	LS	benign
rs17707331	NP_443193	S	N	SN	benign
rs17707947	NP_036466	V	I	VI	benign
rs17710008	NP_079383	G	S	GS	benign
rs17710336	NP_848639	V	E	VE	possibly damaging
rs17710891	NP_005622	D	H	DH	possibly damaging
rs17711594	NP_000431	Q	H	QH	benign
rs17711777	NP_060354	T	A	TA	benign
rs17712523	NP_071407	V	I	VI	benign
rs17713154	NP_443193	I	V	IV	benign
rs17714046	NP_963921	Y	H	YH	benign
rs17714854	NP_689676	F	L	FL	benign
rs17715486	XP_209554	C	R	CR	probably damaging
rs17715634	XP_209554	D	E	DE	benign
rs17716134	XP_292784	T	I	TI	benign
rs17716635	XP_209728	E	Q	EQ	benign
rs17717676	XP_496553	S	T	ST	benign
rs17718987	NP_056532	Q	E	QE	benign
rs17719249	NP_689500	R	W	RW	probably damaging
rs17719289	NP_001762	S	G	SG	benign
rs17719808	NP_777576	T	A	TA	benign
rs17721059	NP_075408	R	Q	RQ	benign
rs17721059	NP_004073	R	Q	RQ	benign
rs17721307	NP_006056	M	I	MI	benign
rs17722293	NP_078853	G	E	GE	possibly damaging

rs17723260	NP_004943	V	M	VM	benign
rs17723640	NP_060257	A	S	AS	benign
rs17725080	NP_006034	P	A	PA	possibly damaging
rs17725914	NP_055680	K	R	KR	benign
rs17727261	NP_620549	S	L	SL	possibly damaging
rs17727261	NP_570129	S	L	SL	probably damaging
rs17728193	NP_008862	V	L	VL	benign
rs17728850	NP_006677	M	T	MT	benign
rs17729088	NP_003062	R	H	RH	benign
rs17729088	NP_620636	R	H	RH	benign
rs17729483	NP_003062	N	S	NS	benign
rs17729483	NP_620636	N	S	NS	benign
rs17730267	NP_612418	K	T	KT	benign
rs17731347	NP_002408	T	S	TS	benign
rs17731958	XP_085234	S	L	SL	benign
rs17733239	NP_000167	N	S	NS	benign
rs17735609	XP_497781	R	Q	RQ	benign
rs17736370	NP_758857	C	Y	CY	probably damaging
rs17736699	NP_068547	E	D	ED	benign
rs17736699	NP_055080	E	D	ED	benign
rs17736699	NP_068548	E	D	ED	benign
rs17737530	NP_112167	A	V	AV	benign
rs17737708	XP_498072	V	F	VF	benign
rs17737832	XP_375646	D	N	DN	possibly damaging
rs17738527	NP_777637	E	K	EK	possibly damaging
rs17738540	NP_777637	V	M	VM	benign
rs17740066	XP_045911	V	I	VI	benign
rs17740607	NP_002103	T	M	TM	possibly damaging
rs17741424	NP_536341	E	V	EV	possibly damaging
rs17741424	NP_004565	E	V	EV	possibly damaging
rs17742683	NP_001923	R	G	RG	probably damaging
rs17743814	NP_795370	F	S	FS	benign
rs17743887	NP_073210	V	M	VM	benign
rs17744245	NP_116561	A	V	AV	benign
rs17744624	NP_005650	P	A	PA	benign
rs17745209	XP_371192	I	S	IS	possibly damaging
rs17745302	NP_078903	R	H	RH	benign
rs17745550	NP_114034	M	V	MV	benign
rs17745550	NP_002365	M	V	MV	benign
rs17746949	XP_290811	V	M	VM	benign
rs17747505	NP_828848	R	W	RW	possibly damaging
rs17747633	NP_733468	K	E	KE	benign
rs17747633	NP_653091	K	E	KE	benign
rs17748456	NP_004397	S	L	SL	benign
rs17748869	NP_002025	T	M	TM	possibly damaging
rs17750158	NP_002783	P	Q	PQ	probably damaging

rs17750870	NP_005551	G	A	GA	possibly damaging
rs17751013	NP_060738	R	C	RC	possibly damaging
rs17751061	NP_757386	R	H	RH	possibly damaging
rs17752285	XP_170754	T	S	TS	benign
rs17754559	XP_376720	V	M	VM	benign
rs17755373	NP_061852	P	L	PL	probably damaging
rs17756598	XP_371846	E	D	ED	benign
rs17756963	XP_497611	E	Q	EQ	benign
rs17757442	NP_612140	R	K	RK	benign
rs17758402	XP_497482	S	N	SN	benign
rs17759447	XP_166780	A	V	AV	benign
rs17759513	XP_166780	G	S	GS	benign
rs17759929	XP_375633	V	L	VL	benign
rs17759933	NP_002166	K	E	KE	benign
rs17761023	NP_644804	A	V	AV	benign
rs17761023	NP_003479	A	V	AV	benign
rs17761055	NP_056097	I	T	IT	benign
rs17761586	NP_060651	E	D	ED	benign
rs17762338	NP_060419	R	H	RH	possibly damaging
rs17762452	NP_055900	L	M	LM	benign
rs17762463	NP_612190	A	T	AT	benign
rs17762463	NP_066984	A	T	AT	benign
rs17762463	NP_612191	A	T	AT	benign
rs17762735	NP_055380	V	M	VM	benign
rs17762763	NP_079234	S	C	SC	benign
rs17763658	NP_787078	R	Q	RQ	benign
rs17766354	NP_878918	P	A	PA	possibly damaging
rs17768776	XP_035371	S	N	SN	benign
rs17769294	NP_060795	N	S	NS	benign
rs17769294	NP_659442	N	S	NS	benign
rs17769417	XP_497316	Q	R	QR	possibly damaging
rs17773251	NP_660204	R	S	RS	benign
rs17773851	XP_096317	R	L	RL	benign
rs17775030	NP_002195	I	F	IF	benign
rs17775030	NP_005492	I	F	IF	benign
rs17776197	XP_497012	R	C	RC	probably damaging
rs17776256	NP_060269	A	S	AS	benign
rs17776919	NP_683412	T	A	TA	benign
rs17776919	NP_057588	T	A	TA	benign
rs17778003	NP_065914	G	R	GR	benign
rs17778270	XP_034594	A	V	AV	benign
rs17779353	XP_209155	I	T	IT	benign
rs17780143	NP_006566	T	M	TM	probably damaging
rs17780143	NP_942089	T	M	TM	probably damaging
rs17781919	NP_003735	G	D	GD	benign
rs17782052	XP_090885	E	K	EK	benign



rs17782078	NP_036202	I	T	IT	possibly damaging
rs17782078	NP_647538	I	T	IT	possibly damaging
rs17782078	NP_647537	I	T	IT	possibly damaging
rs17782124	NP_919254	P	L	PL	benign
rs17782220	XP_496826	S	R	SR	benign
rs17782413	NP_003775	R	Q	RQ	benign
rs17782839	NP_055196	S	P	SP	benign
rs17783344	NP_036330	S	A	SA	benign
rs17783366	NP_443105	N	D	ND	benign
rs17783943	NP_003110	F	C	FC	possibly damaging
rs17784152	NP_004941	S	C	SC	benign
rs17787670	XP_172341	T	M	TM	benign
rs17787698	NP_066567	Y	C	YC	probably damaging
rs17790310	XP_495930	D	G	DG	possibly damaging
rs17790493	XP_376518	S	C	SC	benign
rs17791052	NP_002228	I	M	IM	benign
rs17791076	NP_758529	Y	H	YH	possibly damaging
rs17791076	NP_002228	Y	H	YH	possibly damaging
rs17791931	NP_000753	L	H	LH	probably damaging
rs17793043	NP_705840	I	N	IN	possibly damaging
rs17794522	XP_375397	E	G	EG	possibly damaging
rs17797650	XP_497781	P	R	PR	probably damaging
rs17797703	NP_004468	T	A	TA	benign
rs17799675	XP_498072	G	E	GE	benign
rs17800159	NP_004939	V	I	VI	benign
rs17800159	NP_077739	V	I	VI	benign
rs17800261	NP_689567	S	N	SN	benign
rs17800727	NP_005602	Y	C	YC	probably damaging
rs17801309	NP_005224	R	H	RH	possibly damaging
rs17801815	XP_495906	K	Q	KQ	benign
rs17802155	NP_003010	S	T	ST	benign
rs17802282	XP_497637	Q	E	QE	benign
rs17803441	NP_110407	R	H	RH	benign
rs17804362	NP_002408	T	S	TS	benign
rs17804499	NP_958834	A	G	AG	benign
rs17804854	NP_848658	T	I	TI	possibly damaging
rs17807567	XP_087225	A	D	AD	possibly damaging
rs17807673	NP_116781	P	L	PL	possibly damaging
rs17807723	NP_057405	R	C	RC	benign
rs17809527	XP_062269	R	Q	RQ	benign
rs17810488	XP_374949	L	R	LR	possibly damaging
rs17811401	NP_008981	M	V	MV	benign
rs17811401	NP_573400	M	V	MV	benign
rs17811673	NP_006443	K	N	KN	benign
rs17812218	XP_496322	I	T	IT	benign
rs17812681	NP_114116	R	H	RH	possibly damaging

rs17812681	NP_872292	R	H	RH	possibly damaging
rs17812699	NP_114116	P	L	PL	probably damaging
rs17812699	NP_872292	P	L	PL	probably damaging
rs17813036	XP_371846	S	G	SG	possibly damaging
rs17813964	NP_073737	T	S	TS	benign
rs17815774	NP_002411	V	M	VM	benign
rs17817145	NP_852094	Y	C	YC	possibly damaging
rs17818730	NP_060395	T	A	TA	benign
rs17818842	NP_003175	P	L	PL	probably damaging
rs17818852	XP_497792	Y	C	YC	benign
rs17819126	NP_570722	V	I	VI	benign
rs17819211	NP_477352	M	V	MV	possibly damaging
rs17819796	NP_620050	V	I	VI	benign
rs17819796	NP_110393	V	I	VI	benign
rs17819796	NP_620049	V	I	VI	benign
rs17825668	NP_076984	I	T	IT	possibly damaging
rs17826038	NP_789761	L	V	LV	benign
rs17826219	NP_079133	R	K	RK	benign
rs17827158	NP_002340	K	R	KR	benign
rs17827619	NP_078857	D	N	DN	benign
rs17828795	NP_945320	A	S	AS	benign
rs17828795	NP_945321	A	S	AS	benign
rs17828795	NP_001121	A	S	AS	benign
rs17829458	NP_071931	Q	E	QE	benign
rs17831160	NP_002371	V	I	VI	benign
rs17831160	NP_085072	V	I	VI	benign
rs17831525	NP_031387	P	S	PS	probably damaging
rs17832431	NP_060264	I	V	IV	benign
rs17832998	NP_057735	A	V	AV	benign
rs17833723	NP_003479	R	C	RC	benign
rs17833723	NP_644804	R	C	RC	probably damaging
rs17833992	XP_044622	V	L	VL	benign
rs17834415	XP_292109	F	I	FI	benign
rs17834554	NP_057729	L	F	LF	benign
rs17834692	NP_056139	P	S	PS	possibly damaging
rs17836040	NP_775801	P	R	PR	possibly damaging
rs17836273	NP_116069	A	T	AT	benign
rs17837470	NP_945341	D	N	DN	benign
rs17837492	XP_380044	R	Q	RQ	benign
rs17837518	XP_069743	I	V	IV	benign
rs17838066	NP_001550	L	R	LR	possibly damaging
rs17838148	XP_496386	R	H	RH	possibly damaging
rs17838150	NP_997301	G	V	GV	probably damaging
rs17838151	NP_997301	P	L	PL	possibly damaging
rs17838156	NP_000841	V	A	VA	benign
rs17838156	NP_671489	V	A	VA	benign

rs17838158	NP_000841	A	V	AV	benign
rs17838158	NP_671489	A	V	AV	benign
rs17838409	NP_056542	V	M	VM	benign
rs17838624	NP_112603	H	R	HR	probably damaging
rs17838624	NP_001623	R	H	RH	probably damaging
rs17838626	NP_005190	Q	H	QH	probably damaging
rs17839493	NP_000878	F	L	FL	probably damaging
rs17839741	NP_061753	L	V	LV	benign
rs17839873	NP_112167	A	T	AT	benign
rs17839963	NP_005505	R	S	RS	benign
rs17840047	NP_005505	E	V	EV	benign
rs17840048	NP_005505	N	K	NK	benign
rs17840060	NP_005505	N	D	ND	benign
rs17840079	NP_002107	A	S	AS	benign
rs17840082	NP_005505	R	W	RW	probably damaging
rs17840089	NP_976034	T	I	TI	benign
rs17840089	NP_002692	T	I	TI	benign
rs17840401	XP_208361	I	V	IV	benign
rs17840571	NP_003044	G	R	GR	possibly damaging
rs17840712	XP_212241	L	P	LP	possibly damaging
rs17840712	XP_212238	P	L	PL	possibly damaging
rs17840717	XP_212238	E	Q	EQ	benign
rs17841119	XP_497450	S	A	SA	benign
rs17841203	XP_370838	K	Q	KQ	benign
rs17841203	XP_058720	Q	K	QK	benign
rs17841224	NP_077078	Q	K	QK	benign
rs17841224	NP_003285	Q	K	QK	benign
rs17841225	NP_077078	K	N	KN	benign
rs17841225	NP_003285	N	K	NK	benign
rs17841226	NP_077078	P	R	PR	benign
rs17841226	NP_003285	P	R	PR	benign
rs17841227	NP_077078	G	D	GD	benign
rs17841227	NP_003285	G	D	GD	benign
rs17841228	NP_077078	H	R	HR	benign
rs17841228	NP_003285	H	R	HR	benign
rs17841256	NP_775745	S	P	SP	probably damaging
rs17841292	NP_037434	P	A	PA	probably damaging
rs17841788	NP_783313	V	F	VF	benign
rs17841930	XP_496031	H	R	HR	benign
rs17841930	XP_375148	R	H	RH	benign
rs17841948	NP_068818	V	M	VM	benign
rs17841949	NP_002115	G	S	GS	benign
rs17841949	NP_072049	G	S	GS	benign
rs17841949	NP_068818	S	G	SG	benign
rs17841949	NP_002116	S	G	SG	benign
rs17841952	NP_068818	N	S	NS	benign

rs17841952	NP_002115	S	N	SN	benign
rs17841952	NP_072049	S	N	SN	benign
rs17841953	NP_002115	R	L	RL	benign
rs17841953	NP_068818	R	L	RL	benign
rs17841953	NP_002116	R	L	RL	benign
rs17841953	NP_072049	R	Q	RQ	benign
rs17841954	NP_002115	A	T	AT	benign
rs17841954	NP_068818	A	T	AT	benign
rs17842463	NP_814444	P	L	PL	probably damaging
rs17842465	NP_814444	M	I	MI	benign
rs17842465	NP_004596	M	I	MI	possibly damaging
rs17842601	NP_005865	H	R	HR	benign
rs17843015	NP_872303	F	S	FS	benign
rs17843015	XP_496218	F	S	FS	probably damaging
rs17843021	NP_998821	T	M	TM	benign
rs17843022	NP_998821	R	Q	RQ	benign
rs17843023	NP_998821	L	M	LM	benign
rs17862125	NP_694544	G	E	GE	possibly damaging
rs17862414	NP_036581	I	M	IM	benign
rs17862493	NP_036581	L	V	LV	benign
rs17862559	NP_149098	N	D	ND	benign
rs17862586	NP_036581	I	V	IV	benign
rs17862586	NP_997225	V	I	VI	benign
rs17862627	XP_087225	A	D	AD	possibly damaging
rs17862841	NP_061949	A	V	AV	benign
rs17862843	NP_061949	A	V	AV	benign
rs17862867	NP_061951	H	Y	HY	benign
rs17862868	NP_061951	V	L	VL	benign
rs17863046	NP_694544	D	Y	DY	probably damaging
rs17863543	NP_061951	G	R	GR	benign
rs17863762	NP_061949	C	Y	CY	probably damaging
rs17863779	NP_061950	W	R	WR	benign
rs17863822	NP_060880	S	T	ST	benign
rs17863827	XP_087225	P	S	PS	possibly damaging
rs17863999	NP_149098	M	I	MI	benign
rs17864457	NP_061966	V	A	VA	benign
rs17864694	NP_061951	L	F	LF	benign
rs17864695	NP_061951	R	K	RK	benign
rs17864822	NP_066307	V	E	VE	possibly damaging
rs17864845	NP_061949	S	C	SC	benign
rs17864846	NP_066307	M	V	MV	benign
rs17864846	NP_061949	M	V	MV	benign
rs17864847	NP_001063	S	Y	SY	possibly damaging
rs17864883	XP_087225	Q	K	QK	benign
rs17864906	NP_061949	D	H	DH	benign
rs17864908	NP_009051	P	T	PT	benign

rs17865475	NP_079064	T	M	TM	benign
rs17865569	NP_789784	L	V	LV	benign
rs17865585	NP_149098	K	R	KR	benign
rs17865719	XP_087225	H	Q	HQ	possibly damaging
rs17865959	NP_079064	P	L	PL	probably damaging
rs17866324	NP_036581	D	N	DN	benign
rs17866635	NP_009051	L	V	LV	benign
rs17866645	NP_066307	E	D	ED	benign
rs17866645	NP_061949	E	D	ED	benign
rs17866684	NP_061951	L	I	LI	benign
rs17866712	NP_061951	L	S	LS	benign
rs17866722	NP_061948	E	K	EK	possibly damaging
rs17866726	NP_066307	A	P	AP	benign
rs17866726	NP_000454	A	P	AP	benign
rs17866726	NP_009051	A	P	AP	benign
rs17866726	NP_061966	A	P	AP	benign
rs17866726	NP_061951	A	P	AP	benign
rs17866726	NP_061950	A	P	AP	benign
rs17866726	NP_061948	A	P	AP	benign
rs17866726	NP_061949	A	P	AP	benign
rs17866726	NP_995584	A	P	AP	possibly damaging
rs17867481	NP_149098	S	C	SC	possibly damaging
rs17867575	NP_036581	K	E	KE	benign
rs17868054	NP_036581	F	L	FL	benign
rs17868092	NP_061951	D	E	DE	benign
rs17868323	NP_061950	N	K	NK	benign
rs17868324	NP_061950	R	Q	RQ	benign
rs17869158	NP_061966	W	R	WR	benign
rs17869185	NP_061949	L	M	LM	benign
rs17869195	NP_061949	N	D	ND	benign
rs17869928	NP_036581	L	S	LS	benign