

All SNPs - Angiotensinogen

SNP Details		Provean	PolyPhen-2		PhD-SNP		FATHMM		PANTHER-PSEP		HUMA
SNP	Seq Pos	Score	Prediction	Probability	Prediction	Reliability Index	Prediction	Score	Preservation Time	Prediction	Associated Disease
R4*	4	None	None	None	None	None					
P6R	6	-0.965	possibly damaging	0.764	Neutral		8	DAMAGING	-1.5	176	probably begin
M10I	10	-2.556	probably damaging	0.981	Disease		5	TOLERATED	-1.41	176	probably begin
M10L	10	-1.948	possibly damaging	0.904	Disease		4	TOLERATED	-1.28	176	probably begin
G14S	14	-2.378	benign	0.001	Disease		4	TOLERATED	-1.49	30	probably begin
T20P	20	-3.337	probably damaging	0.966	Disease		2	DAMAGING	-1.55	220	possibly damaging
L22F	22	-2.965	benign	0.125	Neutral		0	DAMAGING	-2.06	455	probably damaging
C23S	23	-8.37	probably damaging	0.966	Disease		9	DAMAGING	-1.53	455	probably damaging
A28P	28	-3.172	probably damaging	0.991	Disease		9	DAMAGING	-1.58	220	possibly damaging
G29D	29	-3.519	probably damaging	0.961	Disease		8	DAMAGING	-1.51	176	probably begin
A31G	31	-3.088	possibly damaging	0.799	Disease		3	DAMAGING	-1.65	176	probably begin
A31T	31	-1.969	benign	0.051	Disease		1	DAMAGING	-1.6	176	probably begin
G33S	33	-1.018	benign	0.022	Disease		0	TOLERATED	-1.45	176	probably begin
R35Q	35	-3.713	probably damaging	1	Disease		9	DAMAGING	-2.39	455	probably damaging
R35W	35	-7.426	probably damaging	1	Disease		9	DAMAGING	-2.44	455	probably damaging
H39R	39	-7.426	probably damaging	1	Disease		9	DAMAGING	-2.31	456	probably damaging
P40L	40	-9.282	probably damaging	1	Disease		9	DAMAGING	-2.75	456	probably damaging
L43F	43	-3.161	possibly damaging	0.927	Disease		6	DAMAGING	-2.41	220	possibly damaging
V44I	44	0.756	benign	0.025	Neutral		4	DAMAGING	-2.25	91	probably begin
N47H	47	-2.88	probably damaging	0.998	Disease		7	DAMAGING	-2.26	91	probably begin
E48K	48	1.673	benign		Neutral		0	DAMAGING	-2.25	91	probably begin
S49N	49	-2.59	possibly damaging	0.508	Disease		6	DAMAGING	-2.32	176	probably begin
S49G	49	-3.584	benign	0.033	Disease		5	DAMAGING	-2.3	176	probably begin
C51R	51	-11.004	probably damaging	1	Disease		10	DAMAGING	-2.31	456	probably damaging
K56M	56	-3.568	probably damaging	0.964	Neutral		4	DAMAGING	-2.28	91	probably begin
A59T	59	-1.636	benign	0.003	Neutral		3	DAMAGING	-2.31	91	probably begin
G60R	60	0.162	possibly damaging	0.779	Neutral		1	DAMAGING	-2.25	91	probably begin
K61N	61	-0.375	benign	0.045	Neutral		1	DAMAGING	-2.28	91	probably begin
K63E	63	-0.431	benign	0	Neutral		3	DAMAGING	-2.25	176	probably begin
D64Y	64	-4.884	probably damaging	0.982	Disease		8	DAMAGING	-2.39	91	probably begin
F67L	67	-4.602	benign	0.201	Disease		3	DAMAGING	-2.18	361	possibly damaging
P69L	69	-9.292	probably damaging	1	Disease		1	DAMAGING	-2.19	456	probably damaging
A70T	70	-0.801	benign	0.008	Neutral		1	DAMAGING	-2.25	30	probably begin
P71L	71	-7.54	benign	0.008	Neutral		3	DAMAGING	-2.31	324	possibly damaging
Q73*	73	None	None	None	None	None					
A74V	74	-3.233	possibly damaging	0.603	Neutral		0	DAMAGING	-1.55	220	possibly damaging
A74P	74	-3.948	probably damaging	0.988	Disease		8	DAMAGING	-1.63	220	possibly damaging
T76A	76	-2.785	benign	0.061	Disease		4	DAMAGING	-1.53	324	possibly damaging
S77F	77	-4.006	benign	0.239	Disease		5	DAMAGING	-1.6	220	possibly damaging
P78S	78	-6.23	possibly damaging	0.641	Disease		4	DAMAGING	-1.55	455	probably damaging
D80E	80	-2.735	benign	0.069	Neutral		1	DAMAGING	-1.51	324	possibly damaging
A83V	83	-2.927	possibly damaging	0.895	Neutral		5	DAMAGING	-1.56	220	possibly damaging
A83P	83	-3.395	probably damaging	0.989	Disease		5	DAMAGING	-1.58	220	possibly damaging
L84P	84	-5.234	probably damaging	0.963	Disease		8	DAMAGING	-1.66	176	probably begin
Q85R	85	0.776	benign	0	Neutral		9	TOLERATED	-1.45	91	probably begin
Q85*	85	None	None	None	None	None					
Q87H	87	-3.493	possibly damaging	0.911	Neutral		6	DAMAGING	-1.54	176	probably begin
V89L	89	-1.868	benign	0.088	Neutral		5	DAMAGING	-1.5	176	probably begin
T97A	97	0.586	benign	0	Neutral		0	DAMAGING	-2.21	91	probably begin
E98K	98	-2.512	possibly damaging	0.685	Neutral		5	DAMAGING	-2.25	220	possibly damaging
K100E	100	-1.975	possibly damaging	0.55	Disease		1	DAMAGING	-2.28	91	probably begin
R102K	102	-1.893	possibly damaging	0.944	Neutral		5	DAMAGING	-2.32	324	possibly damaging
A103V	103	-1.93	benign	0.401	Neutral		3	DAMAGING	-2.23	220	possibly damaging
A104T	104	-0.858	benign	0.336	Neutral		5	DAMAGING	-2.3	176	probably begin
M105V	105	-0.633	benign	0.006	Neutral		9	DAMAGING	-2.19	91	probably begin
V106A	106	-3.466	probably damaging	0.995	Disease		3	DAMAGING	-2.3	220	possibly damaging
G107R	107	-4.75	probably damaging	0.969	Disease		4	DAMAGING	-2.27	91	probably begin
A110V	110	0.921	benign	0.015	Neutral		3	DAMAGING	-2.22	91	probably begin
G114C	114	-8.588	probably damaging	1	Disease		9	DAMAGING	-1.93	456	probably damaging
R116C	116	-6.801	probably damaging	1	Disease		9	DAMAGING	-1.98	455	probably damaging
I117R	117	-2.834	probably damaging	0.997	Disease		6	DAMAGING	-1.98	91	probably begin
M120L	120	-0.667	benign	0.002	Neutral		1	DAMAGING	-1.79	176	probably begin
S122N	122	-1.23	benign	0.03	Disease		5	DAMAGING	-1.95	176	probably begin
E123K	123	-2.508	possibly damaging	0.587	Disease		7	DAMAGING	-1.77	176	probably begin
V127M	127	-0.791	benign	0.116	Neutral		5	DAMAGING	-2.29	176	probably begin
V128I	128	-0.606	benign	0.03	Neutral		7	DAMAGING	-1.82	91	probably begin
H129R	129	0.244	benign	0.002	Neutral		5	DAMAGING	-2.22	91	probably begin
A131T	131	-1.793	benign	0.359	Neutral		3	DAMAGING	-1.73	176	probably begin
V133I	133	-0.095	benign	0.002	Neutral		7	DAMAGING	-1.84	30	probably begin
L134F	134	-2.607	possibly damaging	0.828	Neutral		9	DAMAGING	-1.58	324	possibly damaging
T137A	137	-2.458	benign	0.009	Neutral		4	DAMAGING	-1.75	176	probably begin
T137M	137	-2.996	possibly damaging	0.62	Neutral		0	DAMAGING	-1.79	176	probably begin
A138S	138	-1.246	benign	0.009	Neutral		9	DAMAGING	-1.64	91	probably begin
V139L	139	1.661	benign	0.001	Disease		2	DAMAGING	-2.29	6	probably begin
T142A	142	-3.762	possibly damaging	0.848	Neutral		9	TOLERATED	-1.37	176	probably begin
T142S	142	-2.382	benign	0.307	Neutral		6	DAMAGING	-1.79	176	probably begin
A144T	144	-1.372	benign	0.403	Disease		7	DAMAGING	-2.02	324	possibly damaging
Y147C	147	-8.465	probably damaging	1	Disease		4	DAMAGING	-2.43	455	probably damaging
A150T	150	-3.575	probably damaging	1	Disease		8	DAMAGING	-2.83	456	probably damaging
T154I	154	-5.764	probably damaging	1	Disease		7	DAMAGING	-3.03	456	probably damaging
A155V	155	-3.743	probably damaging	1	Disease		3	DAMAGING	-2	361	possibly damaging
D156G	156	0.097	benign	0	Neutral		3	DAMAGING	-1.9	91	probably begin
I161V	161	-0.944	benign	0.021	Neutral		8	DAMAGING	-1.51	91	probably begin
V164I	164	-0.538	possibly damaging	0.949	Neutral		4	DAMAGING	-1.83	220	possibly damaging
D168Y	168	-6.603	probably damaging	1	Disease		3	DAMAGING	-1.96	361	possibly damaging
D168E	168	-2.699	benign	0.135	Neutral		4	DAMAGING	-1.84	361	possibly damaging
S173Y	173	-5.294	probably damaging	1	Disease		2	DAMAGING	-2.47	455	probably damaging

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SNP	Seq Pos	Score	Prediction	Probability	Prediction	Reliability Index	Prediction	Score	Preservation Time	Prediction	Associated Disease	
R174W	174	-6,314	probably damaging	1	Disease		3	DAMAGING	-1,89	324	possibly damaging	
H178Y	178	-4,388	probably damaging	0,998	Disease		5	DAMAGING	-2,53	456	probably damaging	
K179R	179	-2,405	probably damaging	1	Neutral		2	DAMAGING	-1,89	455	probably damaging	
Q185*	185	None	None	None	None	None						
A186V	186	-1,601	probably damaging	0,975	Neutral		3	DAMAGING	-2,37	91	probably begin	
Q188L	188	-5,446	probably damaging	0,999	Neutral		1	DAMAGING	-1,84	176	probably begin	
Q200*	200	None	None	None	None	None						
A201T	201	-1,136	benign		0	Neutral		3	DAMAGING	-2,25	30	probably begin
Q202*	202	None	None	None	None	None					RENAL TUBULAR DYSGENESIS	
S206F	206	-4,754	probably damaging	1	Disease		5	DAMAGING	-1,97	176	probably begin	
T207M	207	-4,051	probably damaging	1	Neutral		0	DAMAGING	-1,82	220	possibly damaging	
V208A	208	-2,325	probably damaging	0,965	Neutral		4	TOLERATED	-1,41	176	probably begin	
V209A	209	-2,625	possibly damaging	0,873	Neutral		3	DAMAGING	-1,76	220	possibly damaging	
V211M	211	0,846	benign		0,294	Disease		3	DAMAGING	-1,96	30	probably begin
A214T	214	-2,863	probably damaging	0,999	Neutral		3	DAMAGING	-2,29	176	probably begin	
P215L	215	-8,911	probably damaging	1	Neutral		0	DAMAGING	-2,32	361	possibly damaging	
H218Q	218	-0,117	possibly damaging		0,526	Disease		2	DAMAGING	-1,75	91	probably begin
L219Q	219	-5,367	probably damaging	1	Disease		5	DAMAGING	-2,16	456	probably damaging	
Q225P	225	-3,837	possibly damaging	0,905	Disease		3	DAMAGING	-2,33	176	probably begin	
A228D	228	-3,405	probably damaging	0,986	Neutral		1	DAMAGING	-1,87	176	probably begin	
T231N	231	-2,045	benign		0,289	Neutral		5	DAMAGING	-1,84	30	probably begin
T231A	231	2,233	benign		0	Neutral		8	DAMAGING	-1,8	30	probably begin
P232L	232	-5,856	probably damaging	0,993	Disease		5	DAMAGING	-2,28	176	probably begin	
L235F	235	-0,222	benign		0,013	Neutral		9	TOLERATED	-1,48	91	probably begin
R237C	237	-6,783	probably damaging	1	Disease		5	DAMAGING	-1,93	455	probably damaging	
T242I	242	-4,38	possibly damaging		0,884	Disease		3	DAMAGING	-1,91	324	possibly damaging
L244R	244	0,638	possibly damaging		0,582	Disease		6	DAMAGING	-1,77	91	probably begin
A248V	248	-3,115	probably damaging	0,985	Disease		2	DAMAGING	-1,87	324	possibly damaging	
R253M	253	-3,133	benign		0,089	Neutral		1	DAMAGING	-2,37	220	possibly damaging
M255I	255	-0,314	benign		0,002	Disease		2	DAMAGING	-2,04	91	probably begin
Q256*	256	None	None	None	None	None						
A257V	257	-3,52	probably damaging	0,995	Disease		1	DAMAGING	-1,87	324	possibly damaging	
V258M	258	-1,796	probably damaging	0,999	Disease		1	DAMAGING	-1,83	220	possibly damaging	
W261R	261	-9,099	probably damaging	0,999	Disease		5	DAMAGING	-2,21	324	possibly damaging	
K262R	262	-1,269	benign		0,002	Disease		3	DAMAGING	-2,07	220	possibly damaging
T263I	263	-0,028	benign		0	Neutral		7	TOLERATED	-0,63	30	probably begin
G264S	264	0,073	benign		0	Disease		1	DAMAGING	-1,8	30	probably begin
C265W	265	-1,657	benign		0,015	Neutral		0	DAMAGING	-2,25	30	probably begin
S266F	266	-1,78	benign		0,413	Disease		5	DAMAGING	-1,77	30	probably begin
M268I	268	-0,292	benign		0	Neutral		0	DAMAGING	-2,25	6	probably begin
M268T	268	2,072	benign		0	Neutral		4	DAMAGING	-2,16	6	probably begin
G269E	269	-2,237	benign		0,044	Disease		6	DAMAGING	-2,27	176	probably begin
A270T	270	-0,584	possibly damaging		0,477	Neutral		1	DAMAGING	-1,82	91	probably begin
D273G	273	-3,428	benign		0,012	Disease		4	DAMAGING	-2,45	220	possibly damaging
A277S	277	-1,004	benign		0,002	Disease		6	DAMAGING	-1,92	30	probably begin
T280S	280	-2,214	benign		0,163	Neutral		2	DAMAGING	-1,7	324	possibly damaging
T280A	280	-2,249	benign		0,017	Neutral		0	DAMAGING	-1,81	324	possibly damaging
Y281N	281	-4,826	probably damaging	1	Disease		7	DAMAGING	-1,86	455	probably damaging	
Y281C	281	-5,582	probably damaging	1	Disease		6	DAMAGING	-1,88	455	probably damaging	
V282I	282	-0,617	possibly damaging		0,824	Neutral		9	DAMAGING	-1,78	176	probably begin
H283L	283	-7,694	probably damaging	0,998	Disease		8	DAMAGING	-1,77	176	probably begin	
L293P	293	-3,363	benign		0,068	Disease		6	DAMAGING	-2,21	91	probably begin
A295S	295	-0,927	benign		0,012	Disease		1	DAMAGING	-2,16	91	probably begin
E296K	296	-2,162	probably damaging	0,961	Disease		6	DAMAGING	-1,77	91	probably begin	
P297L	297	-4,815	benign		0,06	Disease		1	DAMAGING	-1,8	91	probably begin
E299K	299	-2,693	benign		0,058	Disease		6	DAMAGING	-1,81	176	probably begin
W301*	301	None	None	None	None	None						
D303N	303	-3,458	benign		0,163	Disease		7	DAMAGING	-2,27	176	probably begin
S305N	305	-1,213	benign		0,001	Neutral		7	DAMAGING	-1,78	91	probably begin
S307L	307	-3,772	possibly damaging	0,795	Disease		3	DAMAGING	-1,94	176	probably begin	
V310L	310	-2,685	probably damaging	0,994	Disease		7	DAMAGING	-3,1	361	possibly damaging	
F319L	319	-5,322	probably damaging	1	Neutral		2	DAMAGING	-1,91	361	possibly damaging	
W322R	322	-7,61	benign		0,035	Disease		4	DAMAGING	-2,23	220	possibly damaging
S323N	323	-0,47	benign		0,001	Neutral		4	DAMAGING	-1,8	176	probably begin
Q326R	326	-1,385	benign		0,001	Neutral		1	DAMAGING	-2,32	176	probably begin
D327H	327	-0,38	possibly damaging		0,779	Disease		5	DAMAGING	-2,27	91	probably begin
P335S	335	-7,108	probably damaging	1	Disease		4	DAMAGING	-2,42	456	probably damaging	
T337I	337	-2,647	possibly damaging	0,766	Neutral		0	DAMAGING	-1,86	91	probably begin	
S339N	339	1,234	benign		0,001	Neutral		5	DAMAGING	-2,08	91	probably begin
I345S	345	-4,944	probably damaging	0,998	Disease		6	DAMAGING	-2,58	176	probably begin	
Q346H	346	-4,211	probably damaging	0,998	Disease		8	DAMAGING	-1,84	176	probably begin	
P347L	347	-8,81	probably damaging	1	Disease		7	DAMAGING	-4,87	456	probably damaging	
H348Y	348	-2,629	possibly damaging		0,846	Disease		4	DAMAGING	-1,82	176	probably begin
D352N	352	-3,316	benign		0,038	Disease		1	DAMAGING	-2,27	220	possibly damaging
L353V	353	-2,535	probably damaging	0,999	Disease		7	DAMAGING	-2,24	456	probably damaging	
K355*	355	None	None	None	None	None						
G358D	358	-0,816	benign		0,043	Neutral		0	DAMAGING	-2,17	91	probably begin
Q363*	363	None	None	None	None	None						
W368*	368	None	None	None	None	None						
M369K	369	-2,91	benign		0,005	Disease		6	DAMAGING	-1,79	176	probably begin
P374T	374	-6,317	probably damaging	0,967	Neutral		9	DAMAGING	-1,79	324	possibly damaging	
R375Q	375	-3,573	probably damaging	1	Disease		2	DAMAGING	-1,81	455	probably damaging	
R375W	375	-7,016	probably damaging	1	Disease		6	DAMAGING	-1,92	455	probably damaging	
M381R	381	-4,232	probably damaging	0,997	Disease		4	DAMAGING	-2,37	91	probably begin	
M381L	381	-0,23	benign		0	Neutral		7	TOLERATED	-1,36	91	probably begin
P382A	382	-7,016	probably damaging	1	Disease		5	DAMAGING	-5,12	456	probably damaging	
L384M	384	-1,719	probably damaging	0,986	Neutral		1	DAMAGING	-1,88	220	possibly damaging	

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SNP Details		Provean	PolyPhen-2		PhD-SNP		FATHMM		PANTHER-PSEP		HUMA
SNP	Seq Pos	Score	Prediction	Probability	Prediction	Reliability Index	Prediction	Score	Preservation Time	Prediction	Associated Disease
V385L	385	-0,524	benign	0	Neutral		1	DAMAGING -1,81	91	probably benign	
V385A	385	-0,241	benign	0,001	Neutral		7	DAMAGING -1,76	91	probably benign	
L392M	392	-1,59	probably damaging	1	Disease		1	DAMAGING -2,5	176	probably benign	
D394E	394	-1,292	benign	0,013	Neutral		8	DAMAGING -2,23	176	probably benign	
L395V	395	-2,566	probably damaging	0,985	Neutral		1	DAMAGING -1,67	324	possibly damaging	
Q398*	398	None	None	None	None	None					
A403T	403	1,626	benign	0,001	Neutral		3	DAMAGING -2,24	91	probably benign	
H406Y	406	-1,399	possibly damaging	0,631	Neutral		2	DAMAGING -2,27	30	probably benign	
L409P	409	-0,418	possibly damaging	0,648	Disease		9	DAMAGING -2,27	91	probably benign	
Q412K	412	-0,27	benign	0,032	Disease		9	DAMAGING -2,2	91	probably benign	
L414V	414	0,568	benign	0,035	Disease		5	DAMAGING -1,94	91	probably benign	
S415T	415	-2,61	probably damaging	0,995	Neutral		6	DAMAGING -1,93	455	probably damaging	
S415G	415	-2,883	possibly damaging	0,754	Neutral		5	DAMAGING -2,07	455	probably damaging	
R418C	418	-2,713	benign	0,297	Disease		1	DAMAGING -2,32	30	probably benign	
R418H	418	-0,066	benign	0	Disease		4	DAMAGING -2,3	30	probably benign	
V421A	421	-3,238	probably damaging	0,998	Disease		6	DAMAGING -2,21	324	possibly damaging	
V421M	421	-2,206	probably damaging	1	Disease		8	DAMAGING -2,26	324	possibly damaging	
E423Q	423	-0,202	benign	0,017	Neutral		6	DAMAGING -2,34	30	probably benign	
V424M	424	-2,598	probably damaging	1	Disease		6	DAMAGING -2,2	324	possibly damaging	
L425P	425	-5,273	probably damaging	1	Disease		8	DAMAGING -2,09	176	probably benign	
F430L	430	-4,783	benign	0,432	Neutral		6	DAMAGING -1,72	455	probably damaging	
E431*	431	None	None	None	None	None					
E441D	441	-1,108	benign	0,005	Neutral		7	DAMAGING -2,26	176	probably benign	
S442F	442	-3,718	probably damaging	0,996	Disease		4	DAMAGING -1,91	176	probably benign	
N447S	447	-0,049	benign	0,001	Neutral		9	DAMAGING -1,78	91	probably benign	
N447K	447	-0,878	benign	0	Neutral		4	DAMAGING -1,74	91	probably benign	
E450A	450	-2,514	possibly damaging	0,549	Neutral		7	DAMAGING -1,87	176	probably benign	
R458C	458	-2,962	probably damaging	0,996	Disease		9	DAMAGING -2,73	91	probably benign	
R458H	458	-1,161	benign	0,004	Disease		7	DAMAGING -2,4	91	probably benign	
L461V	461	-2,617	probably damaging	0,999	Disease		8	DAMAGING -2,11	361	possibly damaging	
A463V	463	-3,032	possibly damaging	0,926	Neutral		0	DAMAGING -1,72	176	probably benign	
V464M	464	-2,036	probably damaging	1	Neutral		0	DAMAGING -2,52	91	probably benign	
A469D	469	-2,228	possibly damaging	0,927	Disease		8	DAMAGING -1,85	91	probably benign	
A471V	471	-2,862	probably damaging	0,975	Disease		6	DAMAGING -1,83	176	probably benign	
H473N	473	-4,22	possibly damaging	0,722	Disease		6	DAMAGING -1,81	176	probably benign	
R477H	477	-4,037	probably damaging	1	Disease		9	DAMAGING -2,02	455	probably damaging	
T484I	484	-0,894	benign	0	Neutral		1	DAMAGING -1,7	30	probably benign	

SNP Details		Provean	PolyPhen-2		PhD-SNP		FATHMM		PANTHER-PSEP		HUMA	
SNP	Seq Pos	Score	Prediction	Probability	Prediction	Reliability Index	Prediction	Score	Preservation Time	Prediction	Associated Disease	
T20P	20	-3,337	probably damaging	0,966	Disease		2	DAMAGING	-1,55	220	possibly damaging	
C23S	23	-8,37	probably damaging	0,966	Disease		9	DAMAGING	-1,53	455	probably damaging	
A28P	28	-3,172	probably damaging	0,991	Disease		9	DAMAGING	-1,58	220	possibly damaging	
G29D	29	-3,519	probably damaging	0,961	Disease		8	DAMAGING	-1,51	176	probably begin	
A31G	31	-3,088	possibly damaging	0,799	Disease		3	DAMAGING	-1,65	176	probably begin	
R35Q	35	-3,713	probably damaging	1	Disease		9	DAMAGING	-2,39	455	probably damaging	
R35W	35	-7,426	probably damaging	1	Disease		9	DAMAGING	-2,44	455	probably damaging	
H39R	39	-7,426	probably damaging	1	Disease		9	DAMAGING	-2,31	456	probably damaging	
P40L	40	-9,282	probably damaging	1	Disease		9	DAMAGING	-2,75	456	probably damaging	
L43F	43	-3,161	possibly damaging	0,927	Disease		6	DAMAGING	-2,41	220	possibly damaging	
N47H	47	-2,88	probably damaging	0,998	Disease		7	DAMAGING	-2,26	91	probably begin	
S49N	49	-2,59	possibly damaging	0,508	Disease		6	DAMAGING	-2,32	176	probably begin	
C51R	51	-11,004	probably damaging	1	Disease		10	DAMAGING	-2,31	456	probably damaging	
D64Y	64	-4,884	probably damaging	0,982	Disease		8	DAMAGING	-2,39	91	probably begin	
F67L	67	-4,602	benign	0,201	Disease		3	DAMAGING	-2,18	361	possibly damaging	
P69L	69	-9,292	probably damaging	1	Disease		1	DAMAGING	-2,19	456	probably damaging	
A74V	74	-3,233	possibly damaging	0,603	Neutral		0	DAMAGING	-1,55	220	possibly damaging	
A74P	74	-3,948	probably damaging	0,988	Disease		8	DAMAGING	-1,63	220	possibly damaging	
T76A	76	-2,785	benign	0,061	Disease		4	DAMAGING	-1,53	324	possibly damaging	
S77F	77	-4,006	benign	0,239	Disease		5	DAMAGING	-1,6	220	possibly damaging	
P78S	78	-6,23	possibly damaging	0,641	Disease		4	DAMAGING	-1,55	455	probably damaging	
A83V	83	-2,927	possibly damaging	0,895	Neutral		5	DAMAGING	-1,56	220	possibly damaging	
A83P	83	-3,395	probably damaging	0,989	Disease		5	DAMAGING	-1,58	220	possibly damaging	
L84P	84	-5,234	probably damaging	0,963	Disease		8	DAMAGING	-1,66	176	probably begin	
E98K	98	-2,512	possibly damaging	0,685	Neutral		5	DAMAGING	-2,25	220	possibly damaging	
V106A	106	-3,466	probably damaging	0,995	Disease		3	DAMAGING	-2,3	220	possibly damaging	
G107R	107	-4,75	probably damaging	0,969	Disease		4	DAMAGING	-2,27	91	probably begin	
G114C	114	-8,588	probably damaging	1	Disease		9	DAMAGING	-1,93	456	probably damaging	
R116C	116	-6,801	probably damaging	1	Disease		9	DAMAGING	-1,98	455	probably damaging	
I117R	117	-2,834	probably damaging	0,997	Disease		6	DAMAGING	-1,98	91	probably begin	
E123K	123	-2,508	possibly damaging	0,587	Disease		7	DAMAGING	-1,77	176	probably begin	
L134F	134	-2,607	possibly damaging	0,828	Neutral		9	DAMAGING	-1,58	324	possibly damaging	
Y147C	147	-8,465	probably damaging	1	Disease		4	DAMAGING	-2,43	455	probably damaging	
A150T	150	-3,575	probably damaging	1	Disease		8	DAMAGING	-2,83	456	probably damaging	
T154I	154	-5,764	probably damaging	1	Disease		7	DAMAGING	-3,03	456	probably damaging	
A155V	155	-3,743	probably damaging	1	Disease		3	DAMAGING	-2	361	possibly damaging	
D168Y	168	-6,603	probably damaging	1	Disease		3	DAMAGING	-1,96	361	possibly damaging	
S173Y	173	-5,294	probably damaging	1	Disease		2	DAMAGING	-2,47	455	probably damaging	
R174W	174	-6,314	probably damaging	1	Disease		3	DAMAGING	-1,89	324	possibly damaging	
H178Y	178	-4,388	probably damaging	0,998	Disease		5	DAMAGING	-2,53	456	probably damaging	
Q202*	202	None	None	None	None	None					RENAL TUBULAR DYSGENESIS	
S206F	206	-4,754	probably damaging	1	Disease		5	DAMAGING	-1,97	176	probably begin	
T207M	207	-4,051	probably damaging	1	Neutral		0	DAMAGING	-1,82	220	possibly damaging	
V209A	209	-2,625	possibly damaging	0,873	Neutral		3	DAMAGING	-1,76	220	possibly damaging	
P215L	215	-8,911	probably damaging	1	Neutral		0	DAMAGING	-2,32	361	possibly damaging	
L219Q	219	-5,367	probably damaging	1	Disease		5	DAMAGING	-2,16	456	probably damaging	
Q225P	225	-3,837	possibly damaging	0,905	Disease		3	DAMAGING	-2,33	176	probably begin	
P232L	232	-5,856	probably damaging	0,993	Disease		5	DAMAGING	-2,28	176	probably begin	
R237C	237	-6,783	probably damaging	1	Disease		5	DAMAGING	-1,93	455	probably damaging	
T242I	242	-4,38	possibly damaging	0,884	Disease		3	DAMAGING	-1,91	324	possibly damaging	
A248V	248	-3,115	probably damaging	0,985	Disease		2	DAMAGING	-1,87	324	possibly damaging	
A257V	257	-3,52	probably damaging	0,995	Disease		1	DAMAGING	-1,87	324	possibly damaging	
V258M	258	-1,796	probably damaging	0,999	Disease		1	DAMAGING	-1,83	220	possibly damaging	
W261R	261	-9,099	probably damaging	0,999	Disease		5	DAMAGING	-2,21	324	possibly damaging	
D273G	273	-3,428	benign	0,012	Disease		4	DAMAGING	-2,45	220	possibly damaging	
Y281N	281	-4,826	probably damaging	1	Disease		7	DAMAGING	-1,86	455	probably damaging	
Y281C	281	-5,582	probably damaging	1	Disease		6	DAMAGING	-1,88	455	probably damaging	
H283L	283	-7,694	probably damaging	0,998	Disease		8	DAMAGING	-1,77	176	probably begin	
S307L	307	-3,772	possibly damaging	0,795	Disease		3	DAMAGING	-1,94	176	probably begin	
V310L	310	-2,685	probably damaging	0,994	Disease		7	DAMAGING	-3,1	361	possibly damaging	
F319L	319	-5,322	probably damaging	1	Neutral		2	DAMAGING	-1,91	361	possibly damaging	
W322R	322	-7,61	benign	0,035	Disease		4	DAMAGING	-2,23	220	possibly damaging	
P335S	335	-7,108	probably damaging	1	Disease		4	DAMAGING	-2,42	456	probably damaging	
I345S	345	-4,944	probably damaging	0,998	Disease		6	DAMAGING	-2,58	176	probably begin	
Q346H	346	-4,211	probably damaging	0,998	Disease		8	DAMAGING	-1,84	176	probably begin	
P347L	347	-8,81	probably damaging	1	Disease		7	DAMAGING	-4,87	456	probably damaging	
H348Y	348	-2,629	possibly damaging	0,846	Disease		4	DAMAGING	-1,82	176	probably begin	
D352N	352	-3,316	benign	0,038	Disease		1	DAMAGING	-2,27	220	possibly damaging	
L353V	353	-2,535	probably damaging	0,999	Disease		7	DAMAGING	-2,24	456	probably damaging	
P374T	374	-6,317	probably damaging	0,967	Neutral		9	DAMAGING	-1,79	324	possibly damaging	
R375Q	375	-3,573	probably damaging	1	Disease		2	DAMAGING	-1,81	455	probably damaging	RENAL TUBULAR DYSGENESIS
R375W	375	-7,016	probably damaging	1	Disease		6	DAMAGING	-1,92	455	probably damaging	RENAL TUBULAR DYSGENESIS
M381R	381	-4,232	probably damaging	0,997	Disease		4	DAMAGING	-2,37	91	probably begin	
P382A	382	-7,016	probably damaging	1	Disease		5	DAMAGING	-5,12	456	probably damaging	
L395V	395	-2,566	probably damaging	0,985	Neutral		1	DAMAGING	-1,67	324	possibly damaging	
S415T	415	-2,61	probably damaging	0,995	Neutral		6	DAMAGING	-1,93	455	probably damaging	
S415G	415	-2,883	possibly damaging	0,754	Neutral		5	DAMAGING	-2,07	455	probably damaging	
V421A	421	-3,238	probably damaging	0,998	Disease		6	DAMAGING	-2,21	324	possibly damaging	
V421M	421	-2,206	probably damaging	1	Disease		8	DAMAGING	-2,26	324	possibly damaging	
V424M	424	-2,598	probably damaging	1	Disease		6	DAMAGING	-2,2	324	possibly damaging	
S442F	442	-3,718	probably damaging	0,996	Disease		4	DAMAGING	-1,91	176	probably begin	
R458C	458	-2,962	probably damaging	0,996	Disease		9	DAMAGING	-2,73	91	probably begin	
L461V	461	-2,617	probably damaging	0,999	Disease		8	DAMAGING	-2,11	361	possibly damaging	
A471V	471	-2,862	probably damaging	0,975	Disease		6	DAMAGING	-1,83	176	probably begin	
H473N	473	-4,22	possibly damaging	0,722	Disease		6	DAMAGING	-1,81	176	probably begin	
R477H	477	-4,037	probably damaging	1	Disease		9	DAMAGING	-2,02	455	probably damaging	

Damaging SNPs - Angiotensinogen

SNP Details		Provean	PolyPhen-2		PhD-SNP		FATHMM		PANTHER-PSEP		HUMA
SNP	Seq Pos	Score	Prediction	Probability	Prediction	Reliability Index	Prediction	Score	Preservation Time	Prediction	Associated Disease

* SNPs were predicted to be damaging if at least 4 out of the 5 tools agreed or they if they were associated with a disease in HUMA

Position	Position (PDB)	Residue
36	337	VAL
37	338	TYR
38	339	ILE
39	340	HIS
40	341	PRO
41	342	PHE
42	343	HIS
43	344	LEU
44	345	VAL
45	346	ILE
48	349	GLU
49	350	SER
52	353	GLU
101	402	LEU
104	405	ALA
105	406	MET
108	409	MET
109	410	LEU
112	413	PHE
160	461	ALA
161	462	ILE
164	465	VAL
165	466	PRO
168	469	ASP
400	701	GLU

* SNPs occur at positions highlighted in yellow

** Damaging SNPs occur at positions highlighted in red

*** The "Position (PDB)" column refers to the numbering in the PDB file