

a

Mutation (G689X)	Polarity	Hydrophobicity	Volume	$\Delta\Delta G$
E	12.3	0.86	90.4	-2.541
D	13	0.96	74.1	-2.483
W	5.4	-9.63	144.1	-1.606
Q	10.5	1.21	93.9	-1.592
G689C	5.5	0.69	72.5	-1.42
T	8.6	0.59	77.1	-1.366
G689S	9.2	0.76	60.8	-1.355
F	5.2	-17.28	121.3	-1.307
N	11.6	1.17	78	-1.283
K	11.3	0.92	108.5	-1.282
Y	6.2	-15.09	123.6	-1.194
H	10.4	1.03	99.3	-1.07
R	10.5	1.03	111.5	-0.863
A	8.1	0.96	60.6	-0.746
V	8	-0.49	81	-0.568
P	5.9	-3.74	91.3	-0.568
L	4.9	-21.91	107.5	-0.53
I	5.2	-15.16	107.5	-0.53
M	5.7	-3.01	105.1	-0.512

