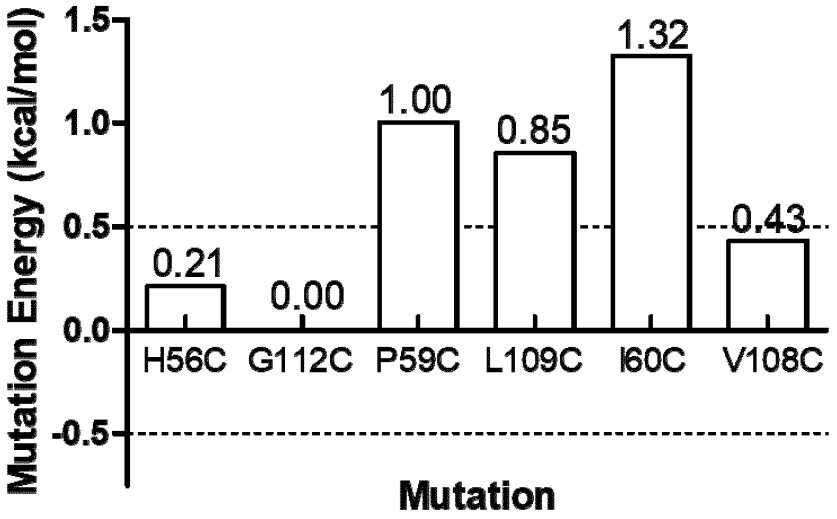

Figure 1

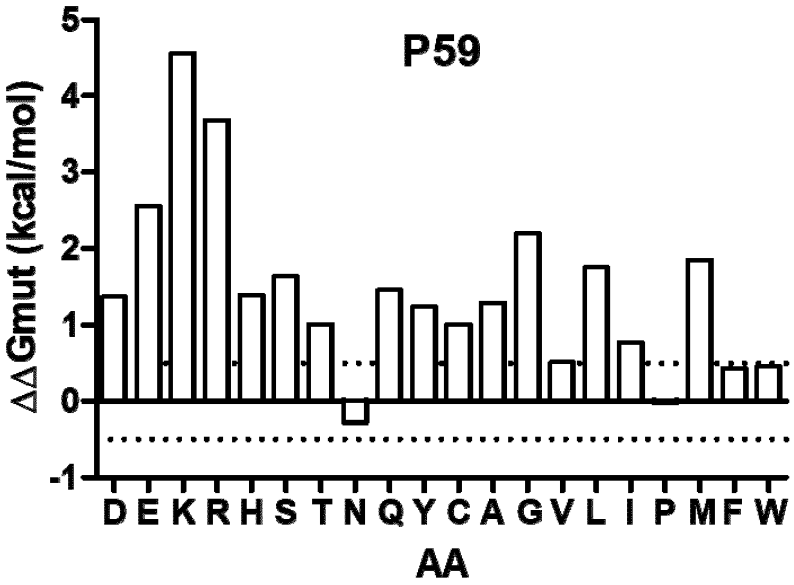

Figure 2

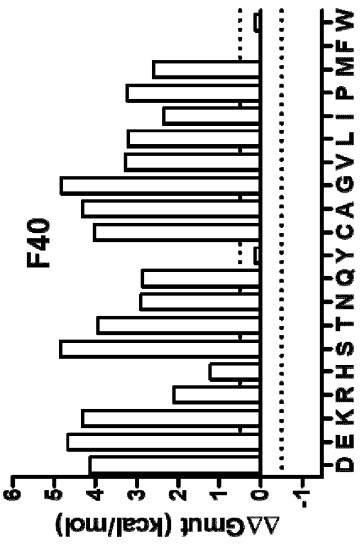

Figure 3A

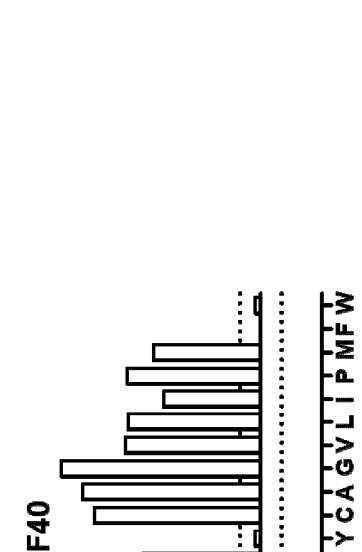

Figure 3B

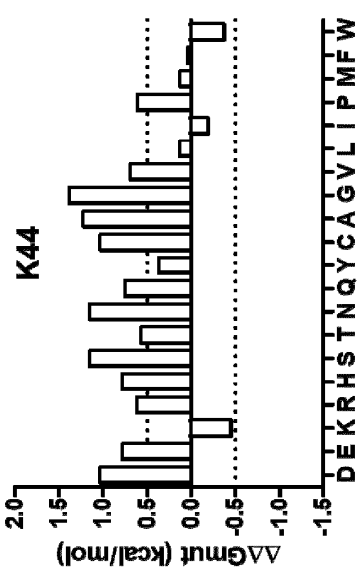

Figure 3C

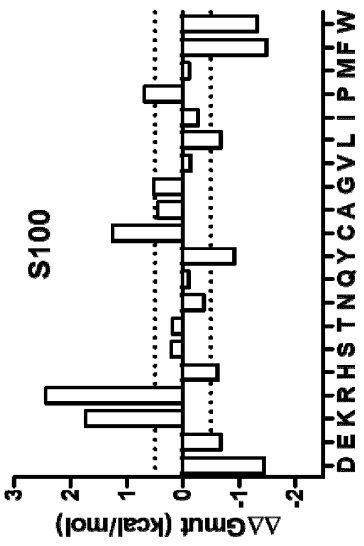

Figure 3D

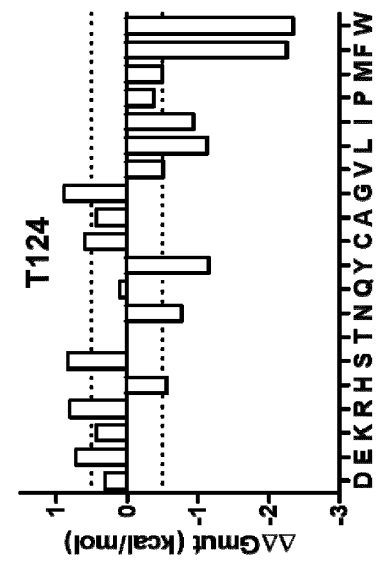

Figure 3F

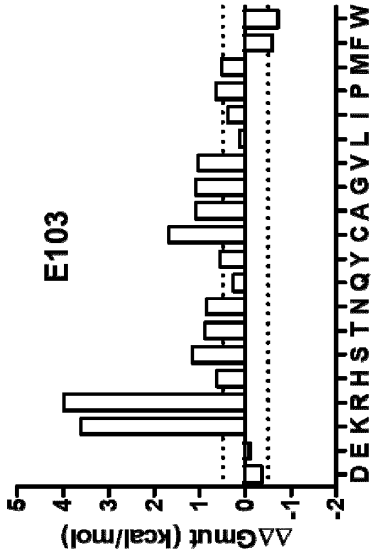

Figure 3E

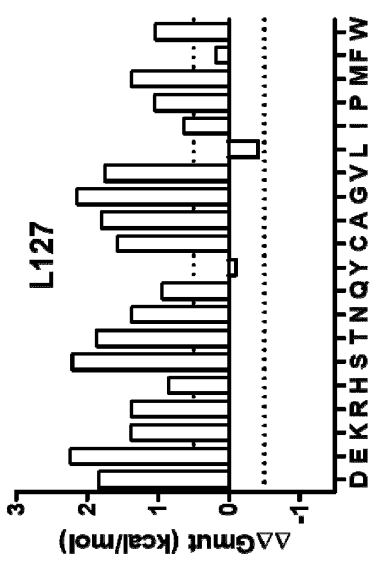

Figure 3H

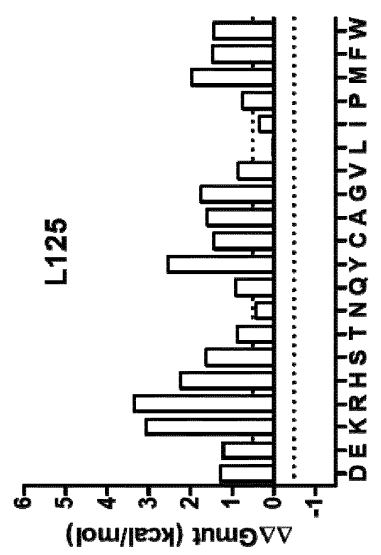

Figure 3G

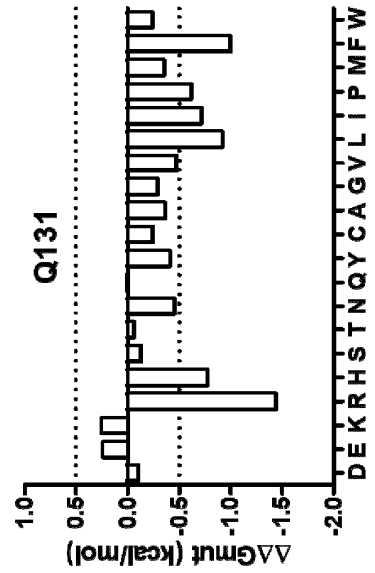

Figure 3J

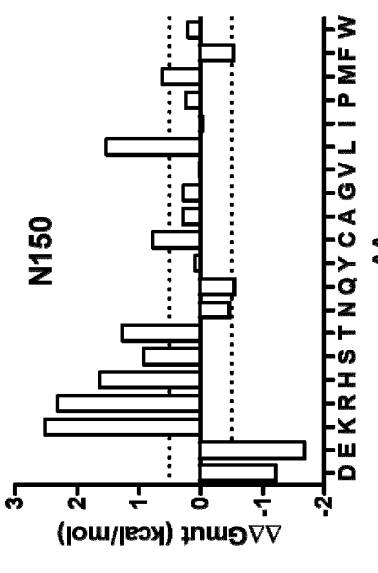

Figure 3L

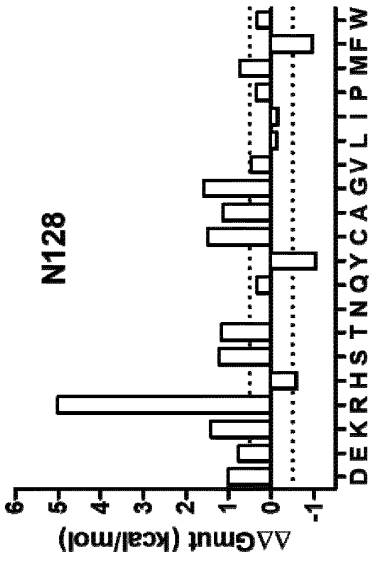

Figure 3I

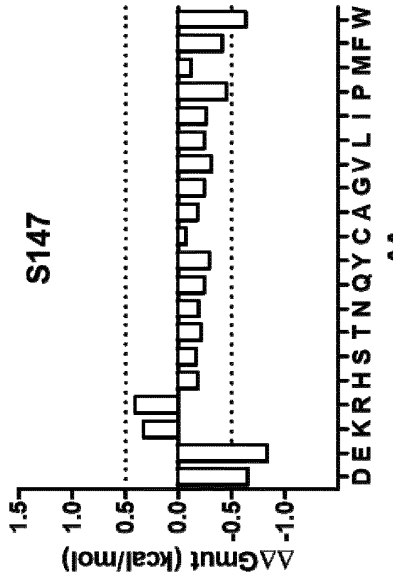

Figure 3K

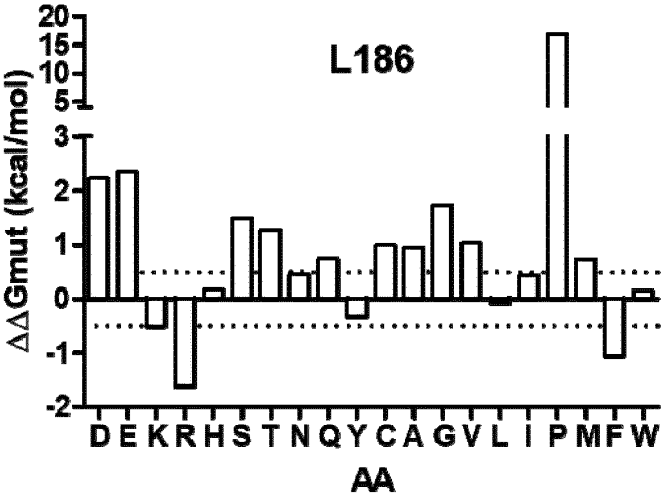

Figure 3M

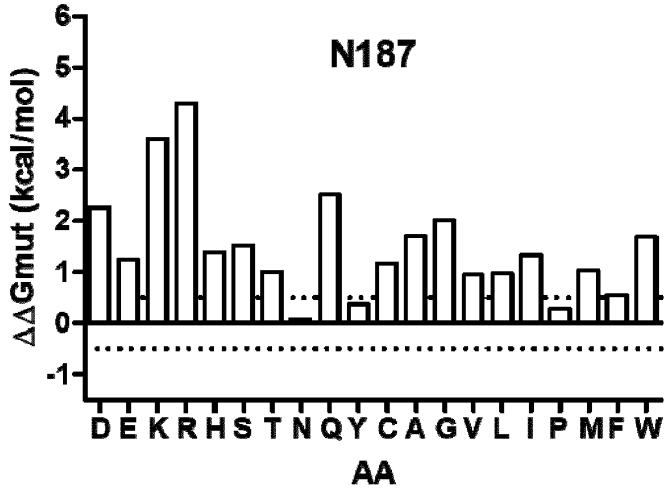

Figure 3N

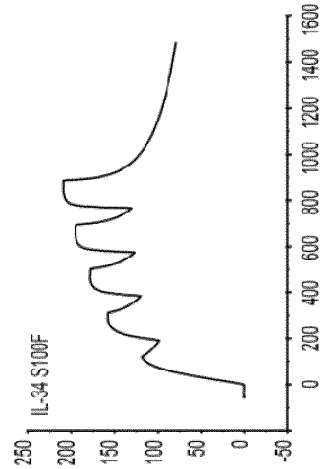

Figure 4A

Figure 4B

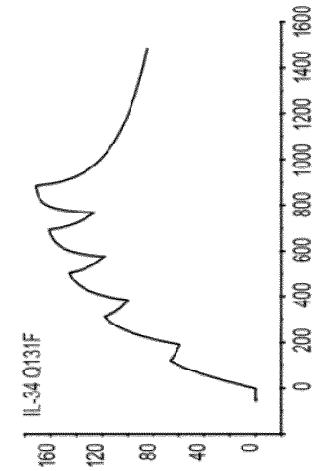

Figure 4C

Figure 4D

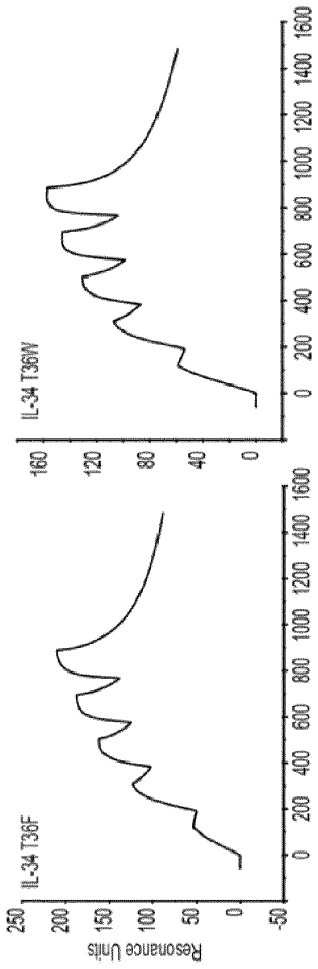

Figure 4E

Figure 4F

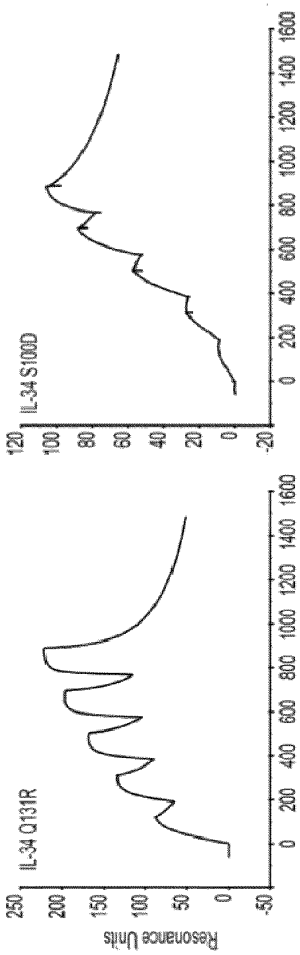

Figure 4G

Figure 4H

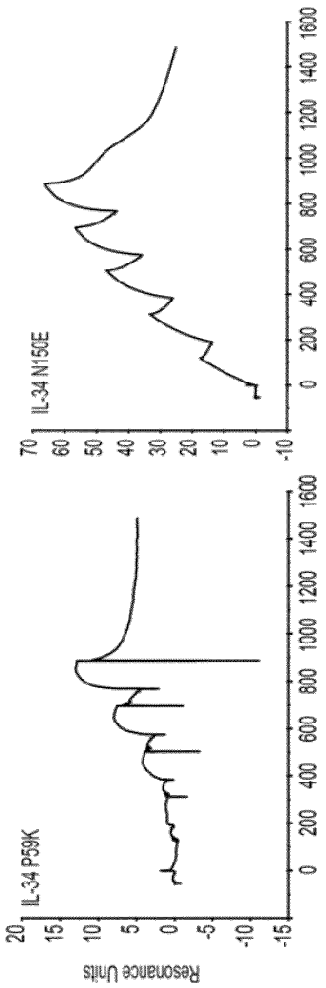

Figure 4I

Figure 4J

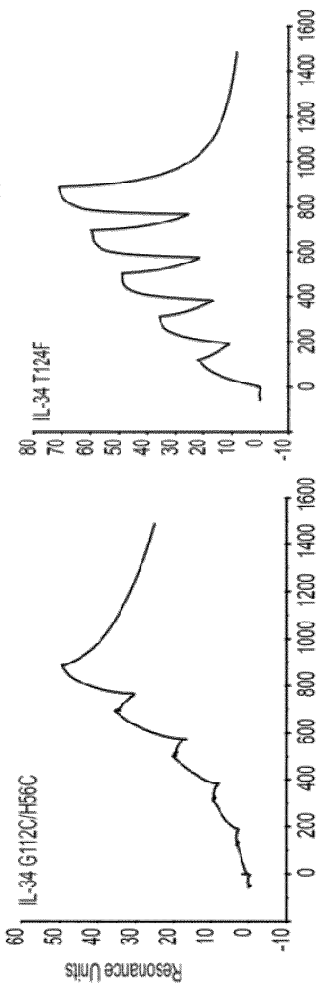

Figure 4K

Figure 4L

Binding parameters:

	Ka (1/Ms)	Kd (1/s)	KD (M)	Rmax (RU)
Wt IL-34	2.27E+04	1.81E-03	7.95E-08	104.72
IL-34 S100F	9.01E+06	0.01887	2.10E-09	171.8
IL-34 T36Y	6.82E+06	0.02064	3.03E-09	133.0
IL-34 Q131F	2.27E+05	0.001101	4.86E-09	144.6
IL-34 T36F	2.57E+05	0.001921	7.46E-09	174.6
IL-34 T36W	5.29E+05	0.002771	5.24E-09	130.3
IL-34 Q131R	6.91E+05	0.006411	9.28E-09	173.9
IL-34 S100D	7.22E+04	9.73E-04	1.35E-08	103.3
IL-34 P59K	/	/	/	/
IL-34 N150E	9.31E+04	0.001605	1.72E-08	59.65
IL-34 G112/H56C	2.65E+04	0.001156	4.37E-08	54.17
IL-34 T124F	1.70E+05	0.005717	3.37E-08	55.38
IL-34 Fc	2.79E+05	0.07467	2.67E-09	135.8

Figure 5

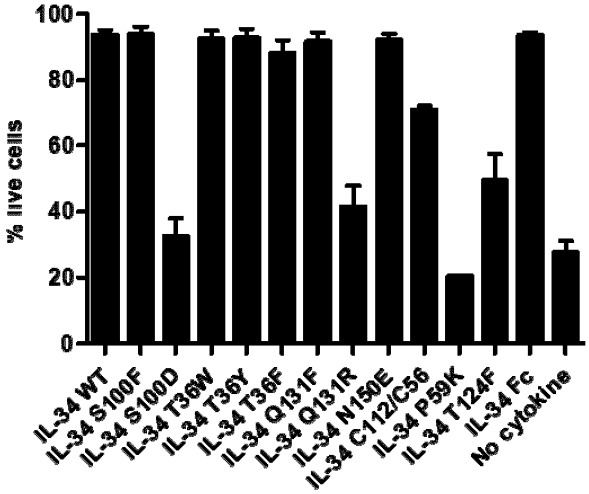

Figure 6A

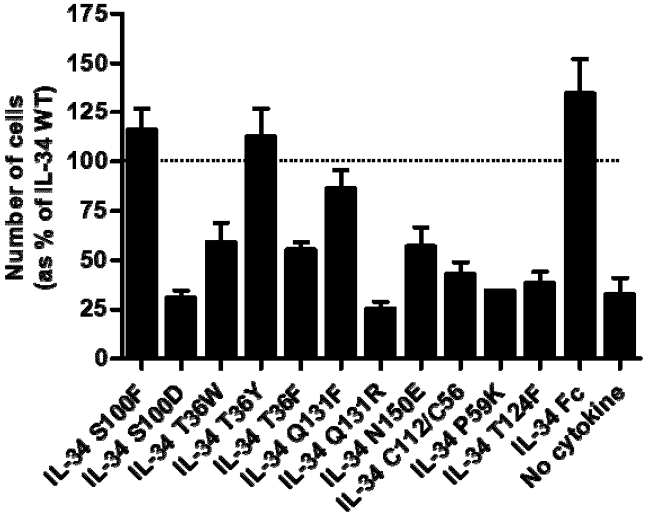

Figure 6B

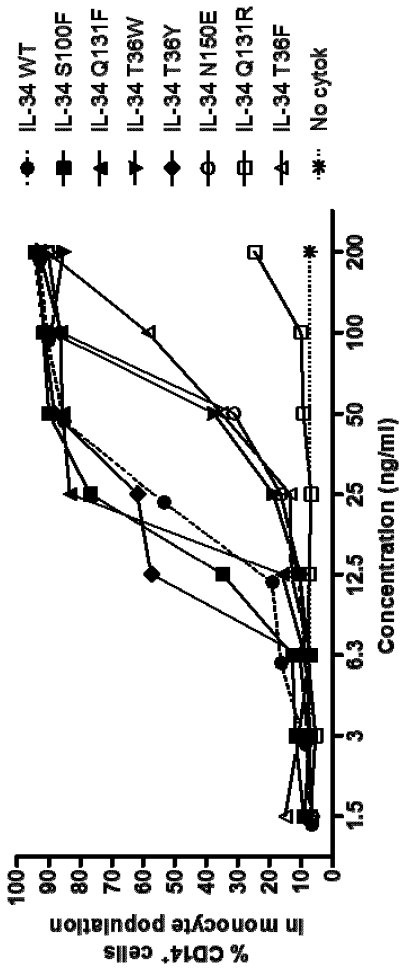
IL-34 WT
IL-34 S100F
IL-34 Q131F
IL-34 T36W
IL-34 T36Y
IL-34 N150E
IL-34 Q131R
IL-34 T36F
No cytok
% CD14+ cells in monocyte population
Concentration (ng/ml)
0
10
20
30
40
50
60
70
80
90
100
1.5
3
6.3
12.5
25
50
100
200

Figure 6C

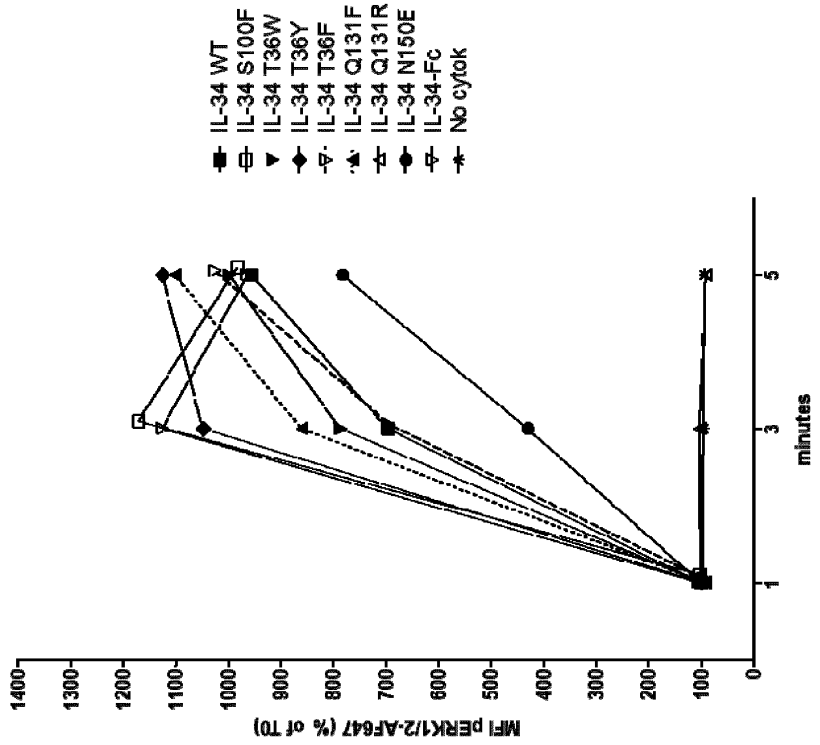

Figure 7B

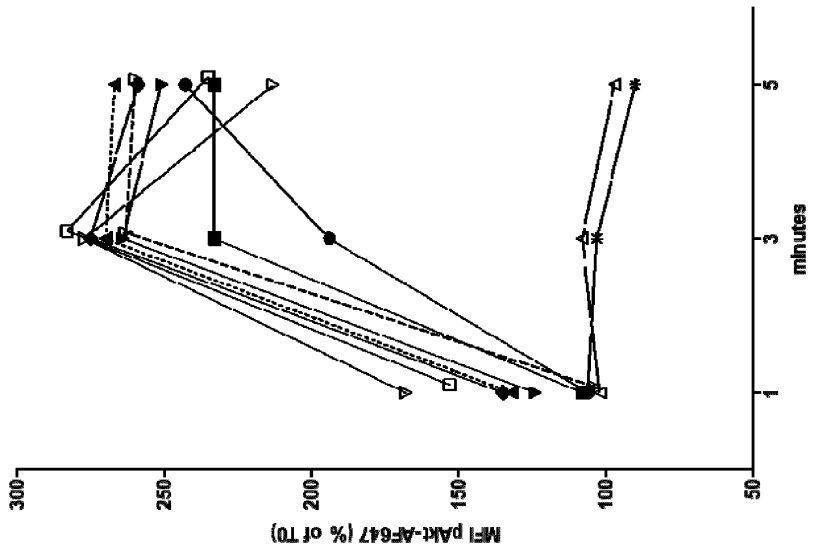

Figure 7A

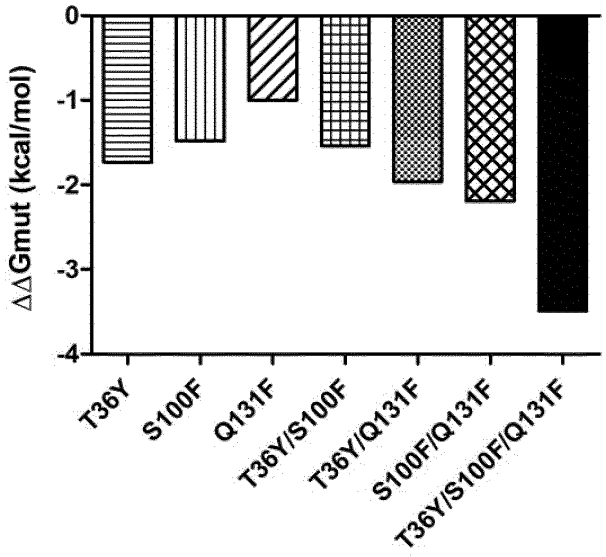
0
-1
-2
-3
-4
ΔΔGmut (kcal/mol)
T36Y
S100F
Q131F
T36Y/S100F
T36Y/Q131F
S100F/Q131F
T36Y/S100F/Q131F

Figure 8

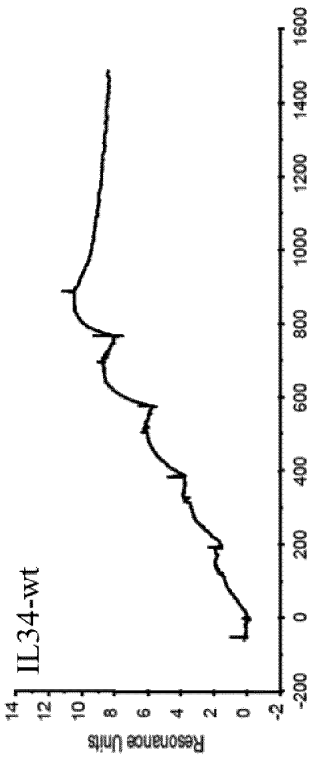

Figure 9A

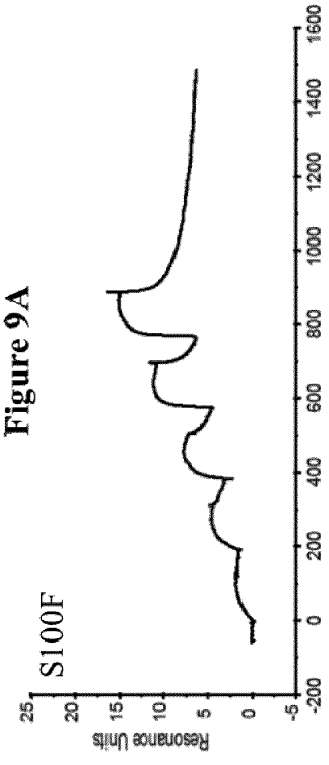

Figure 9B

Binding parameters:

	KD (M)
Wt IL-34	5.74E-09
IL-34 S100F	3.12E-09

Figure 9C

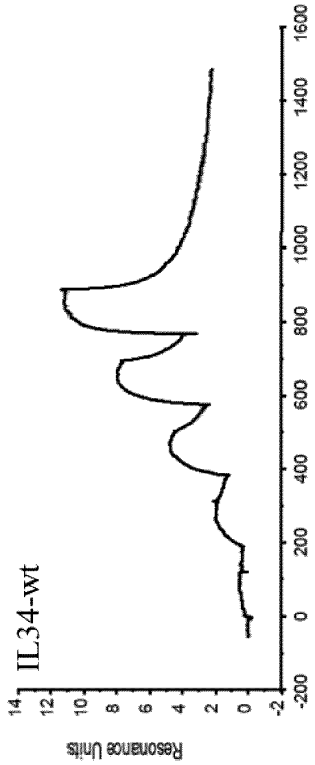

Figure 10A

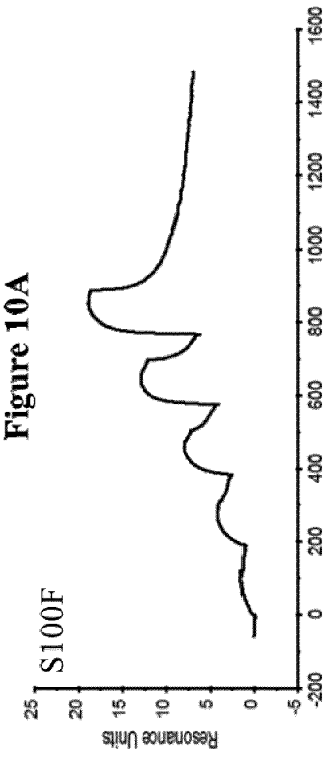

Figure 10B

Binding parameters:

	KD (M)
Wt IL-34	1.28E-08
IL-34 S100F	7.46E-09

Figure 10C