FIG. 1A NK116

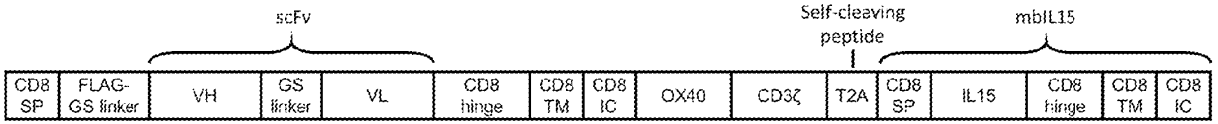


FIG. 1B NK117



FIG. 1C NK118



FIG. 1D NK119



Non-limiting Combination	HCDR1 SEQ ID NO:	HCDR2 SEQ ID NO:	HCDR3 SEQ ID NO:
1	104	130	156
2	105	131	157
3	106	132	158
4	107	133	159
5	108	134	160
6	109	135	161
7	110	136	162
8	111	137	163
9	112	138	164
10	113	139	165
11	114	140	166
12	115	141	167
13	116	142	168
14	117	143	169
15	118	144	170
16	119	145	171
17	120	146	172
18	121	147	173
19	122	148	174
20	123	149	175
21	124	150	176
22	125	151	177
23	126	152	178
24	127	153	179
25	128	154	180
26	129	155	181

FIGURE 2

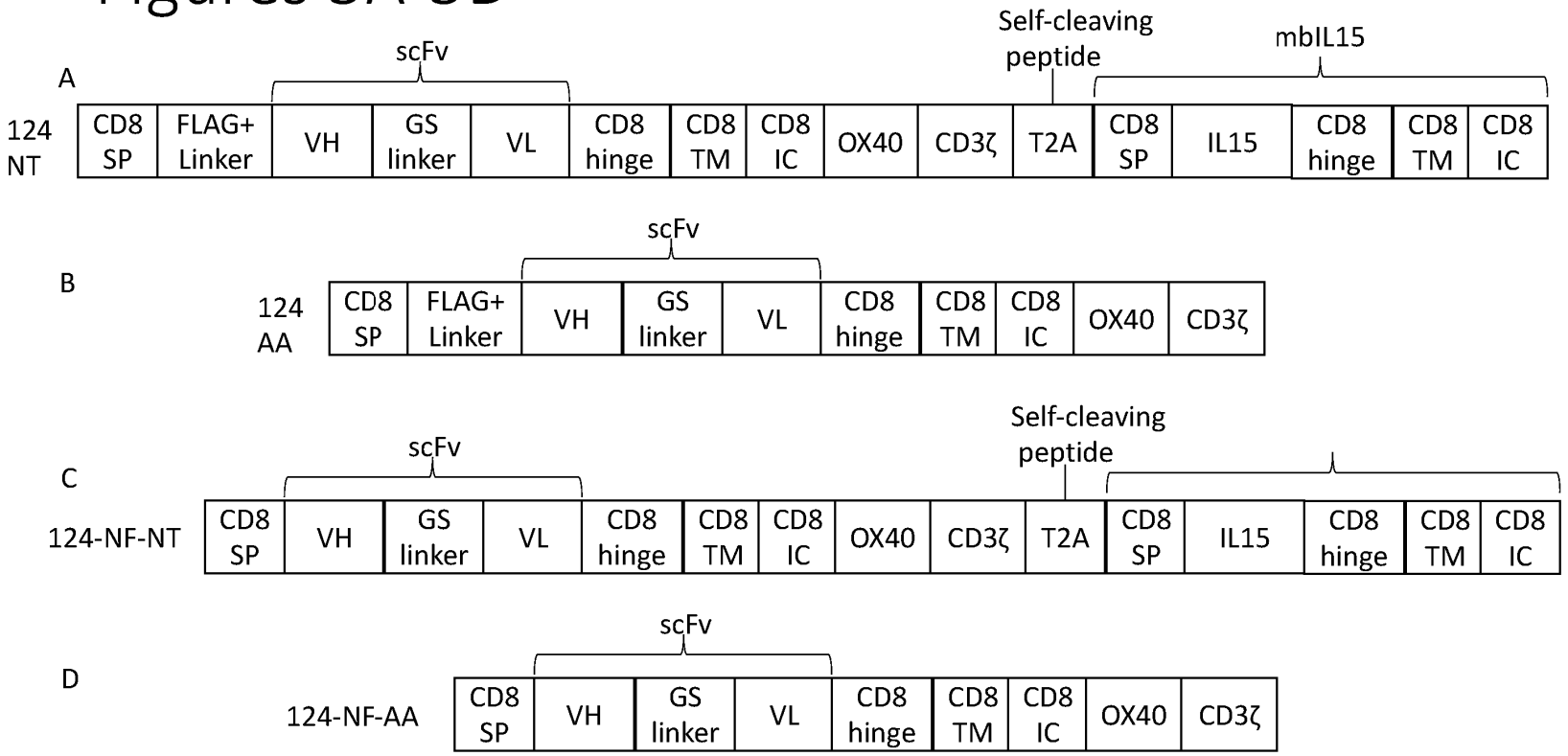
Non-limiting Combination	LCDR1 SEQ ID NO:	LCDR2 SEQ ID NO:	LCDR3 SEQ ID NO:
1	385	411	437
2	386	412	438
3	387	413	439
4	388	414	440
5	389	415	441
6	390	416	442
7	391	417	443
8	392	418	444
9	393	419	445
10	394	420	446
11	395	421	447
12	396	422	448
13	397	423	449
14	398	424	450
15	399	425	451
16	400	426	452
17	401	427	453
18	402	428	454
19	403	429	455
20	404	430	456
21	405	431	457
22	406	432	458
23	407	433	459
24	408	434	460
25	409	435	461
26	410	436	462

FIGURE 3

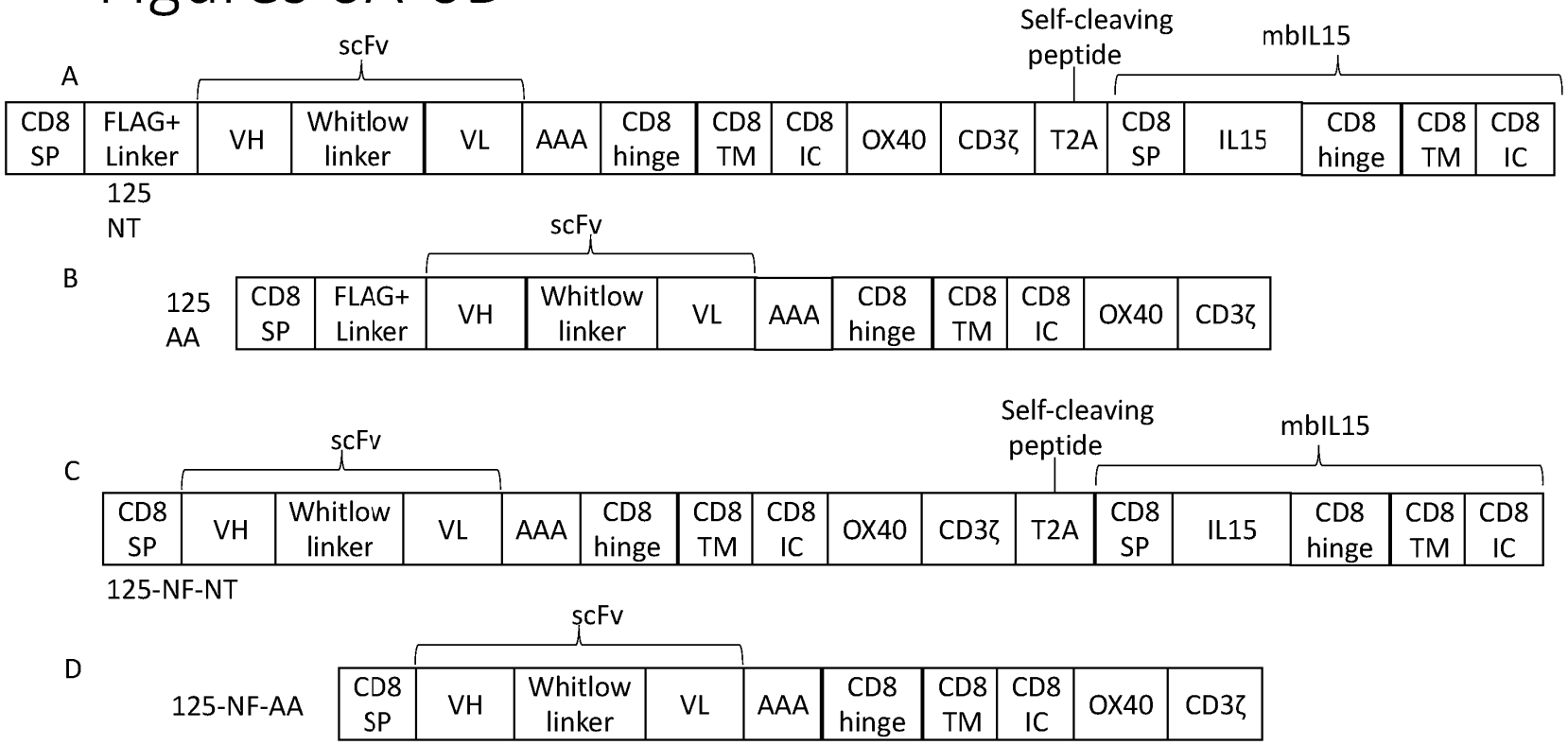
Non-limiting Combination	Binding moiety name	Heavy chain variable region (VH) SEQ ID NO:	Light chain variable region (VL) SEQ ID NO:
1	scFv.1	260	541
2	scFv.2	261	542
3	scFv.3	262	543
4	scFv.4	263	544
5	scFv.5	264	545
6	scFv.6	265	546
7	scFv.7	266	547
8	scFv.8	267	548
9	scFv.9	268	549
10	scFv.10	269	550
11	scFv.11	270	551
12	scFv.12	271	552
13	scFv.13	272	553
14	scFv.14	273	554
15	scFv.15	274	555
16	scFv.16	275	556
17	scFv.17	276	557
18	scFv.18	277	558
19	scFv.19	278	559
20	scFv.20	279	560
21	scFv.21	280	561
22	scFv.22	281	562
23	scFv.23	282	563
24	scFv.24	283	564
25	scFv.25	284	565
26	scFv.26	285	566

FIGURE 4

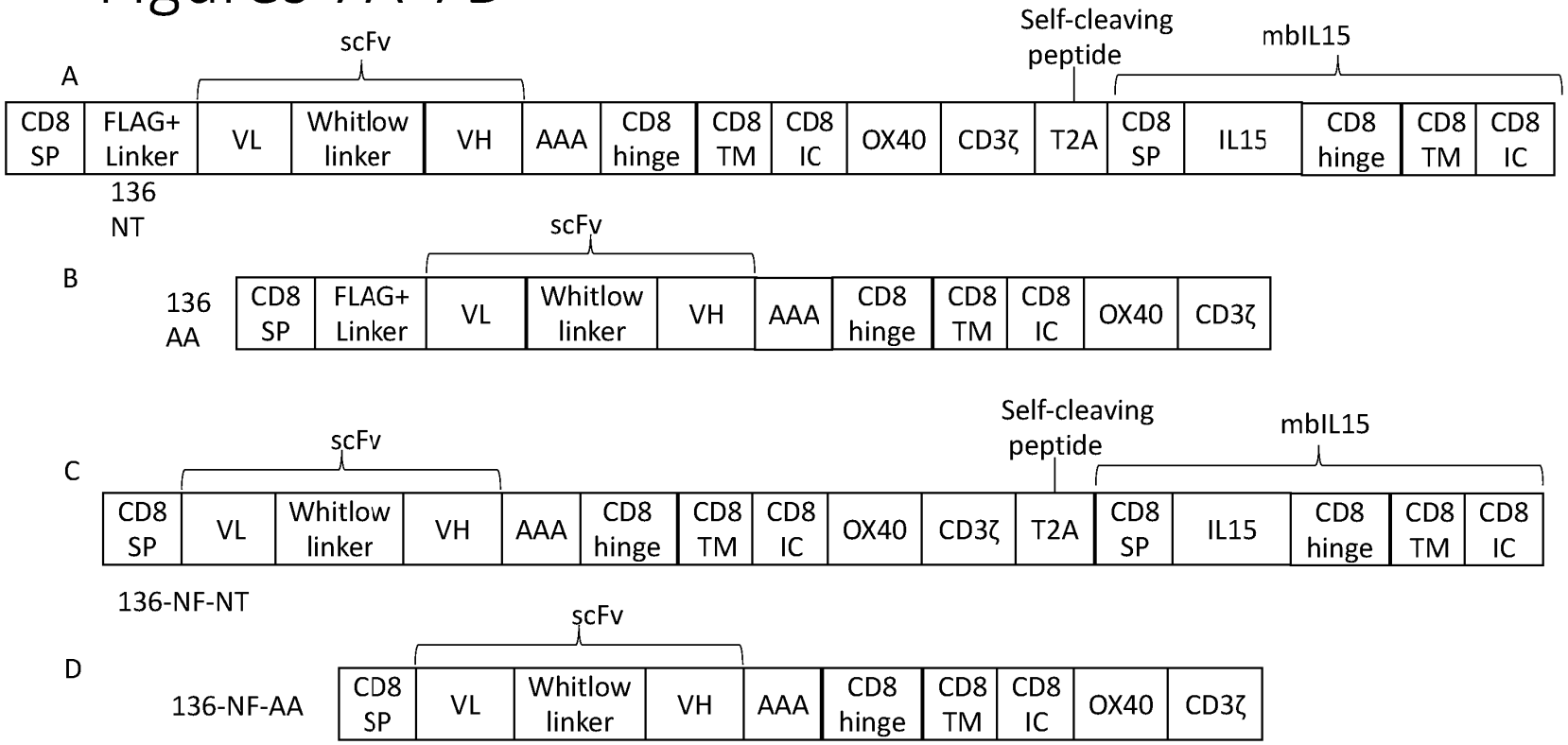
Figures 5A-5D



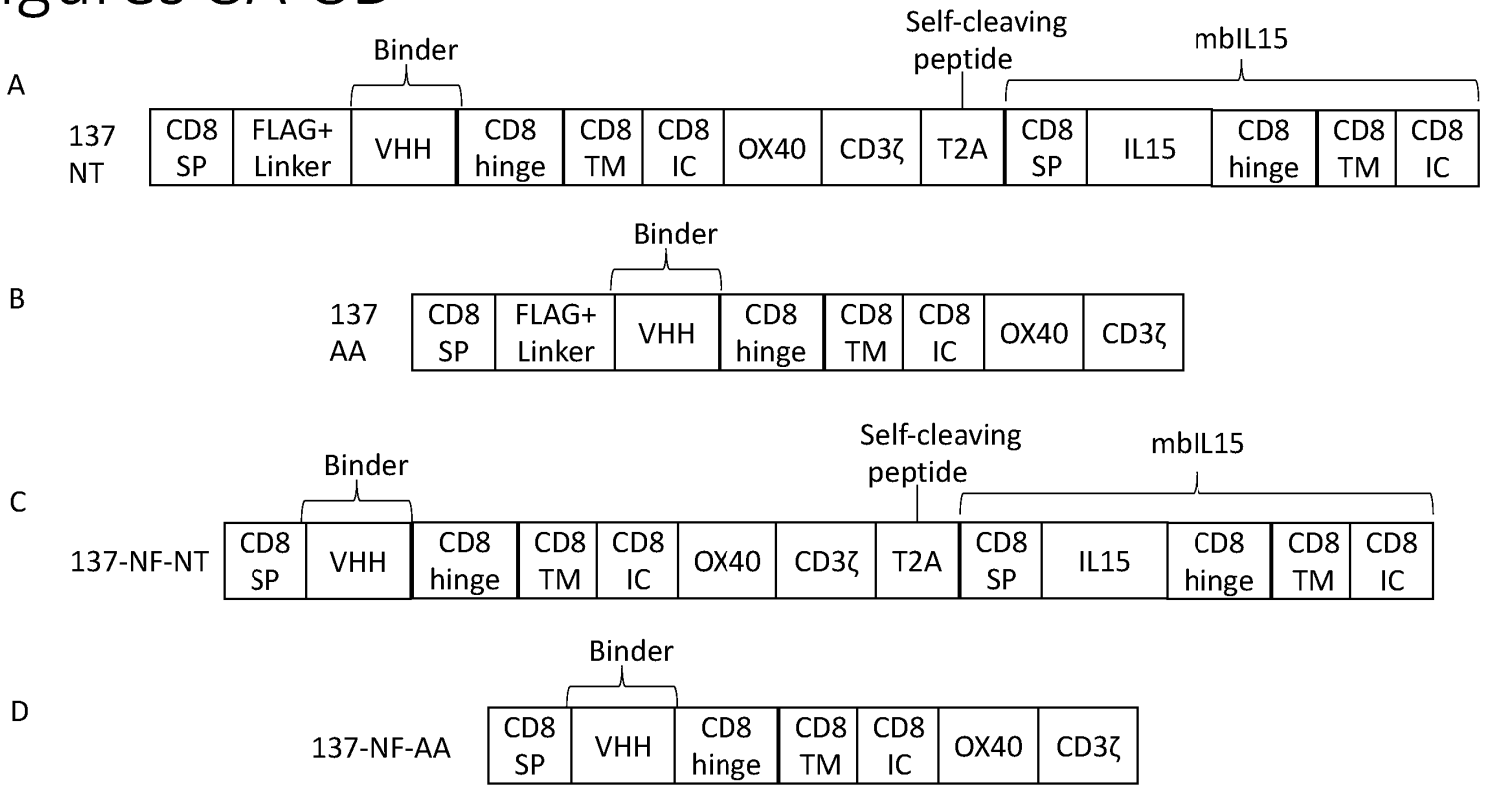
Figures 6A-6D



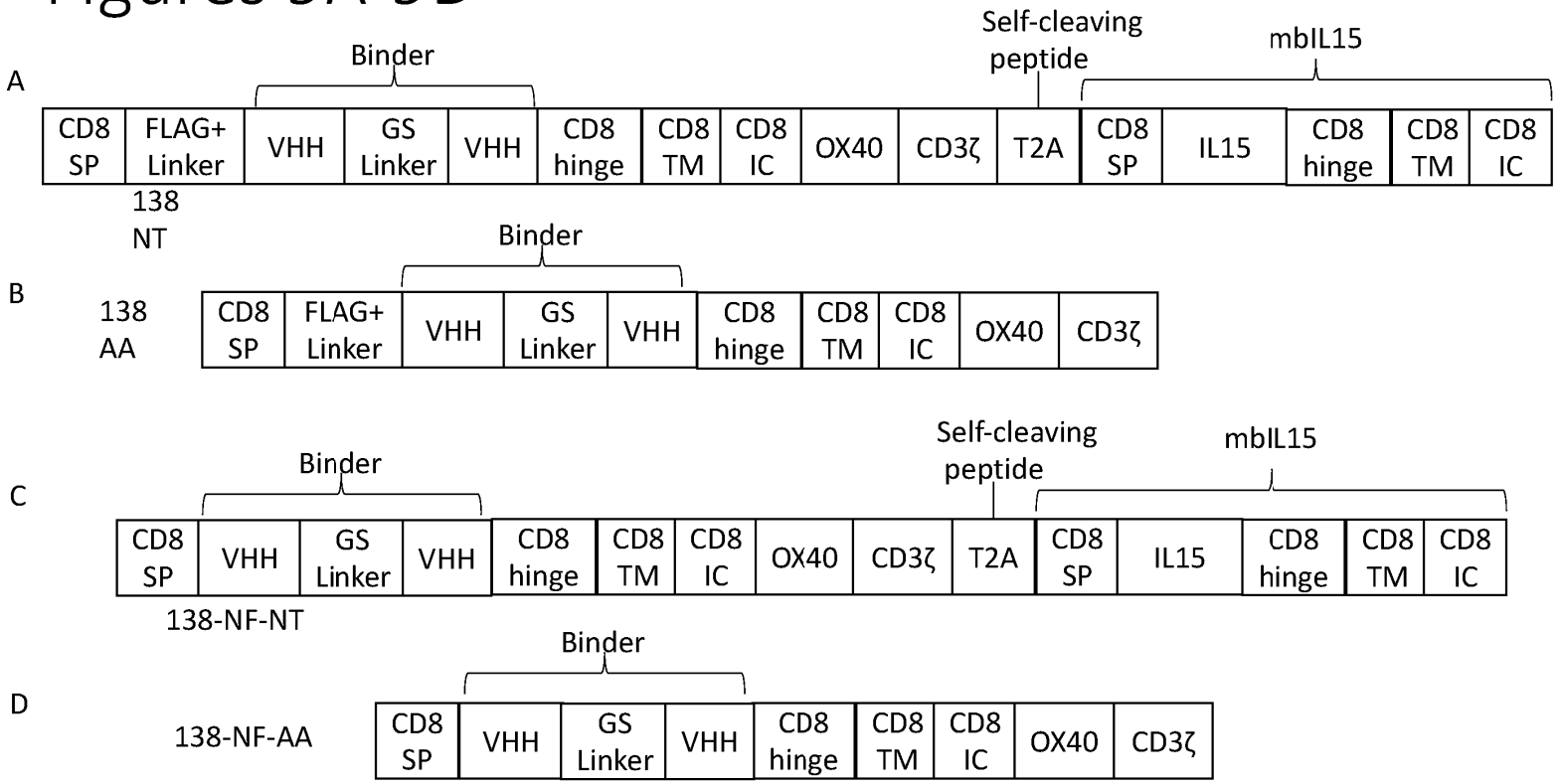
Figures 7A-7D



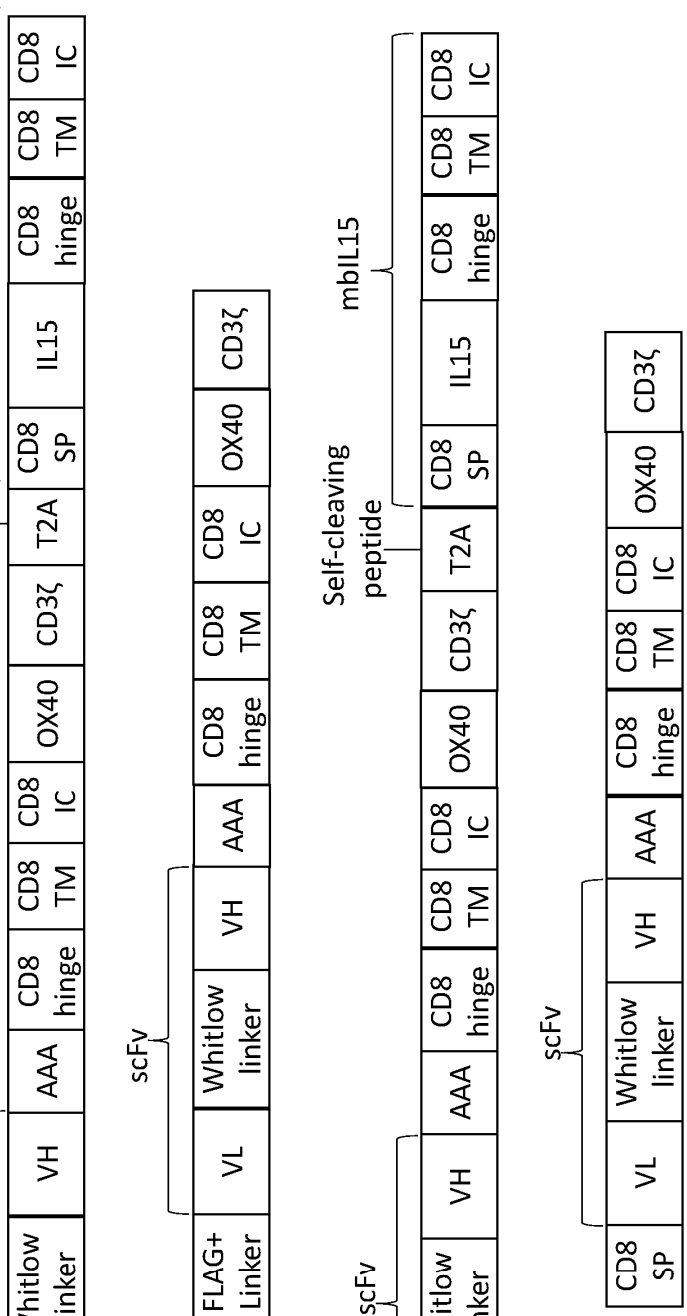
Figures 8A-8D



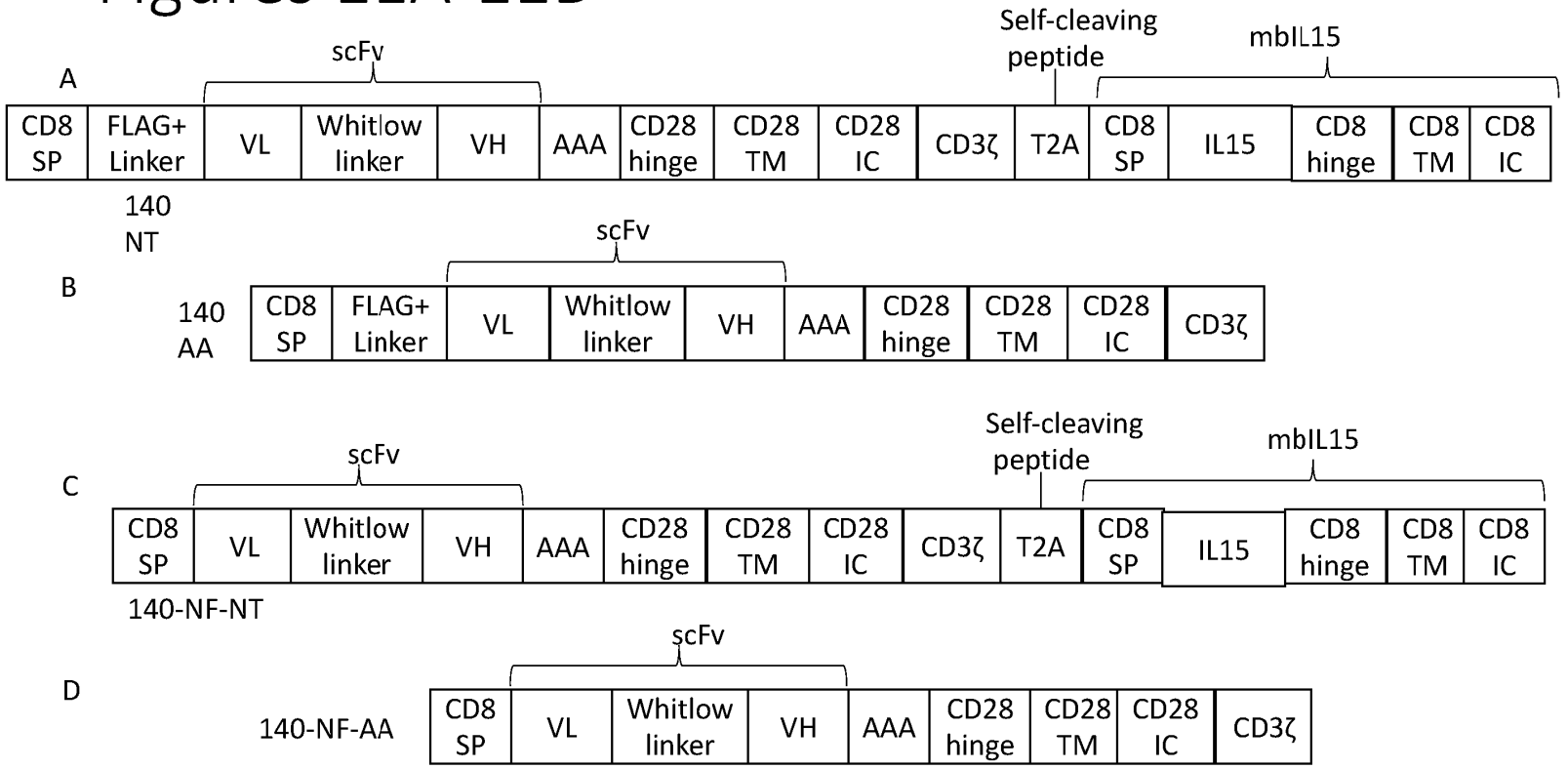
Figures 9A-9D



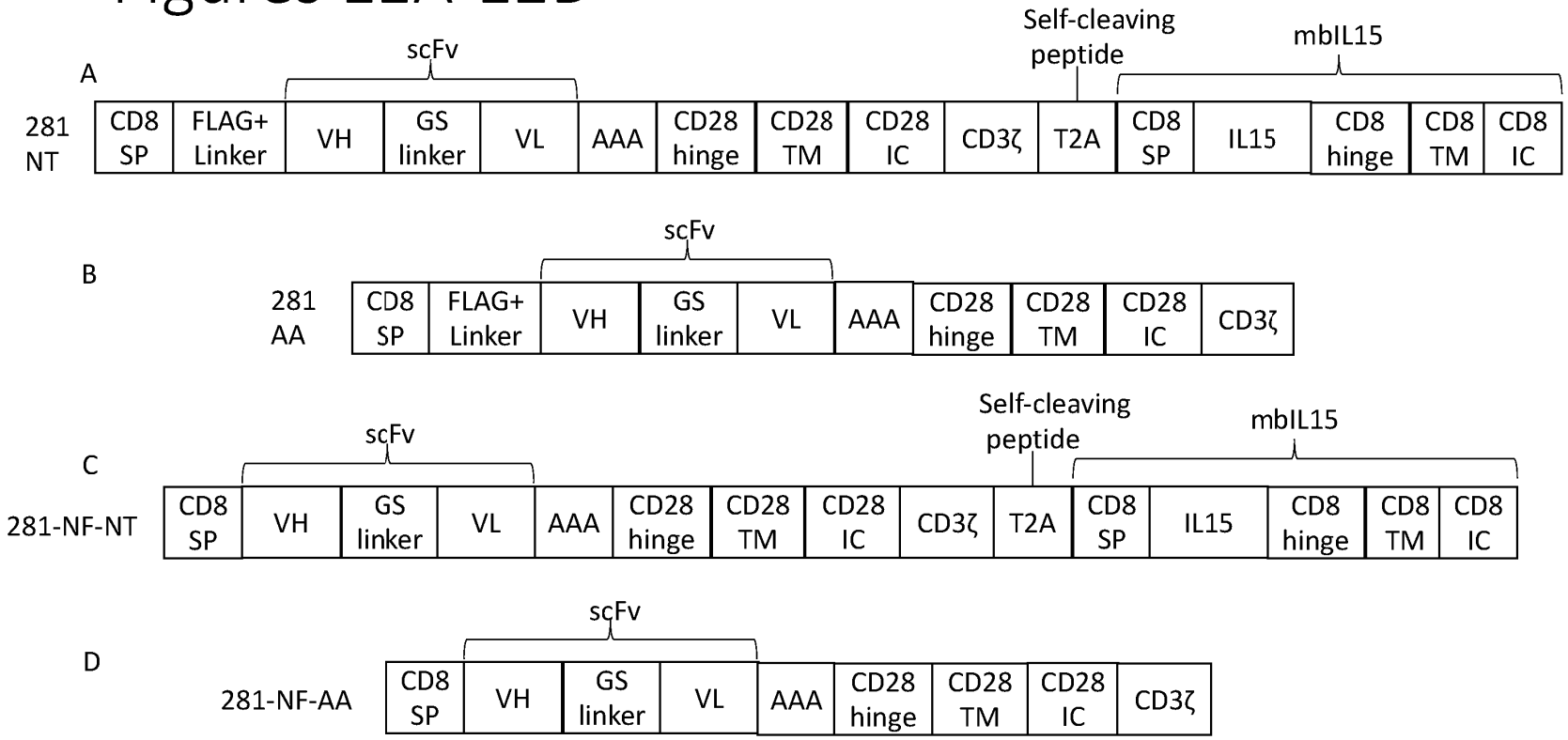
Figures 10A-10D



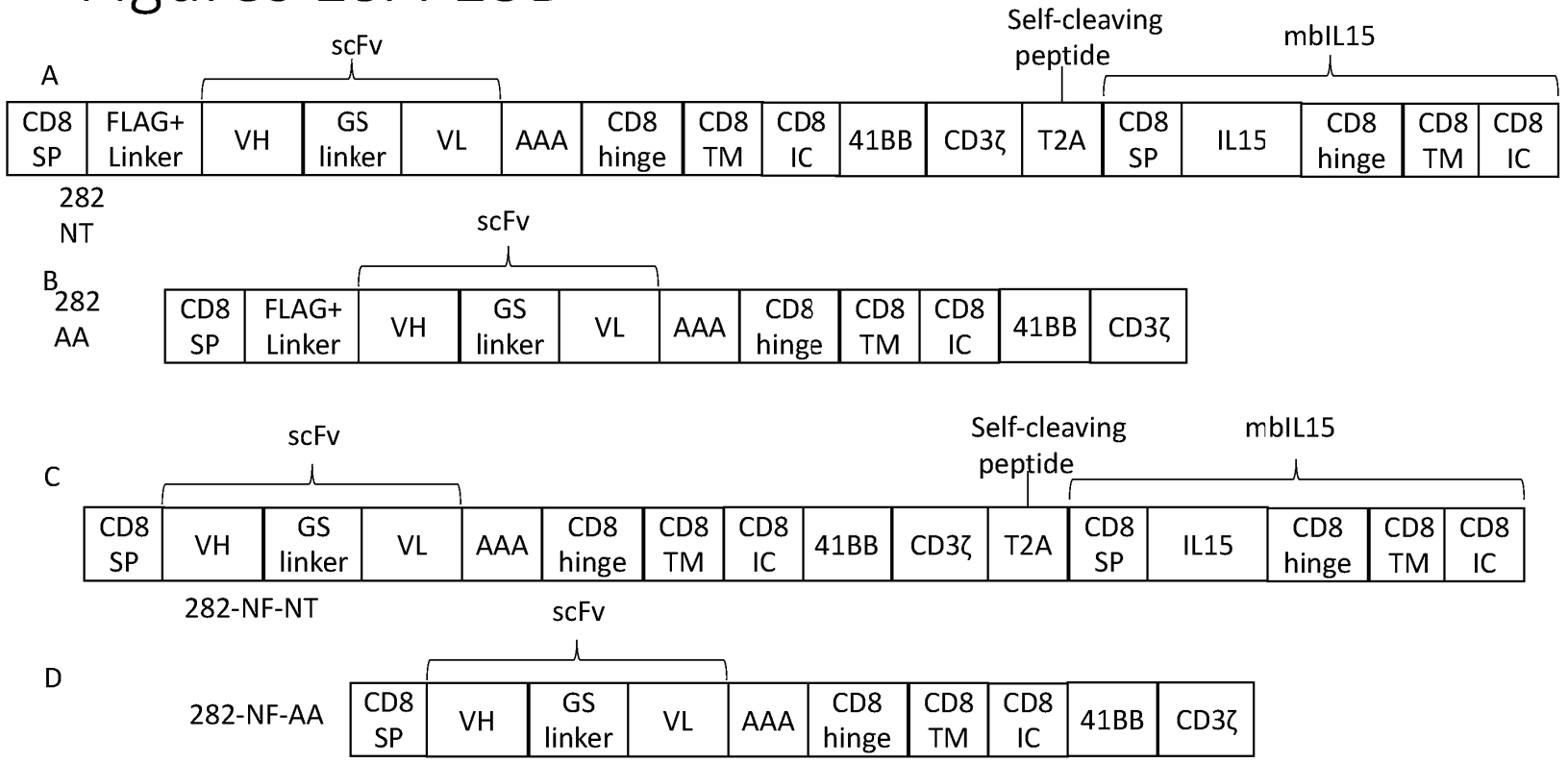
Figures 11A-11D



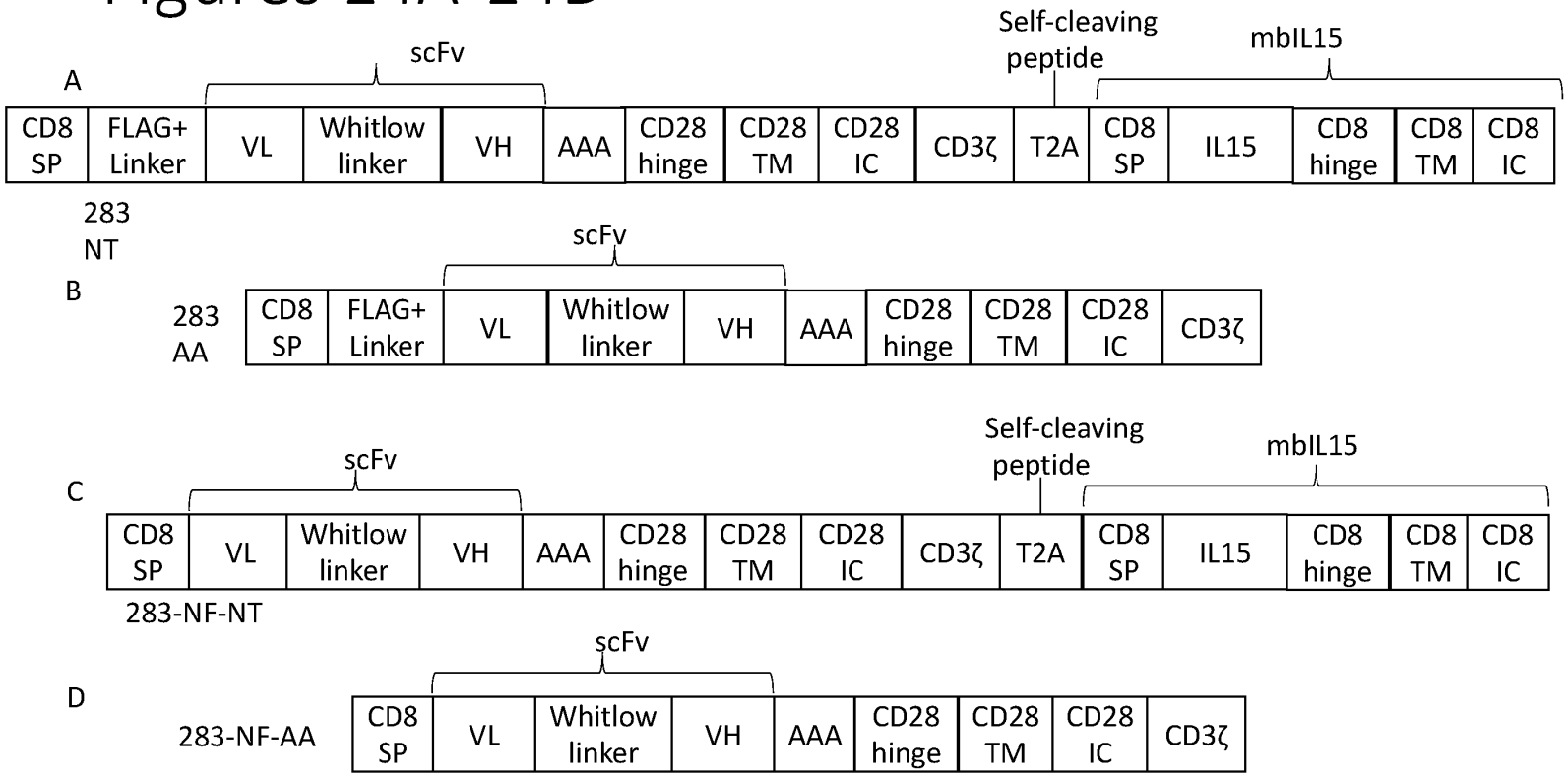
Figures 12A-12D



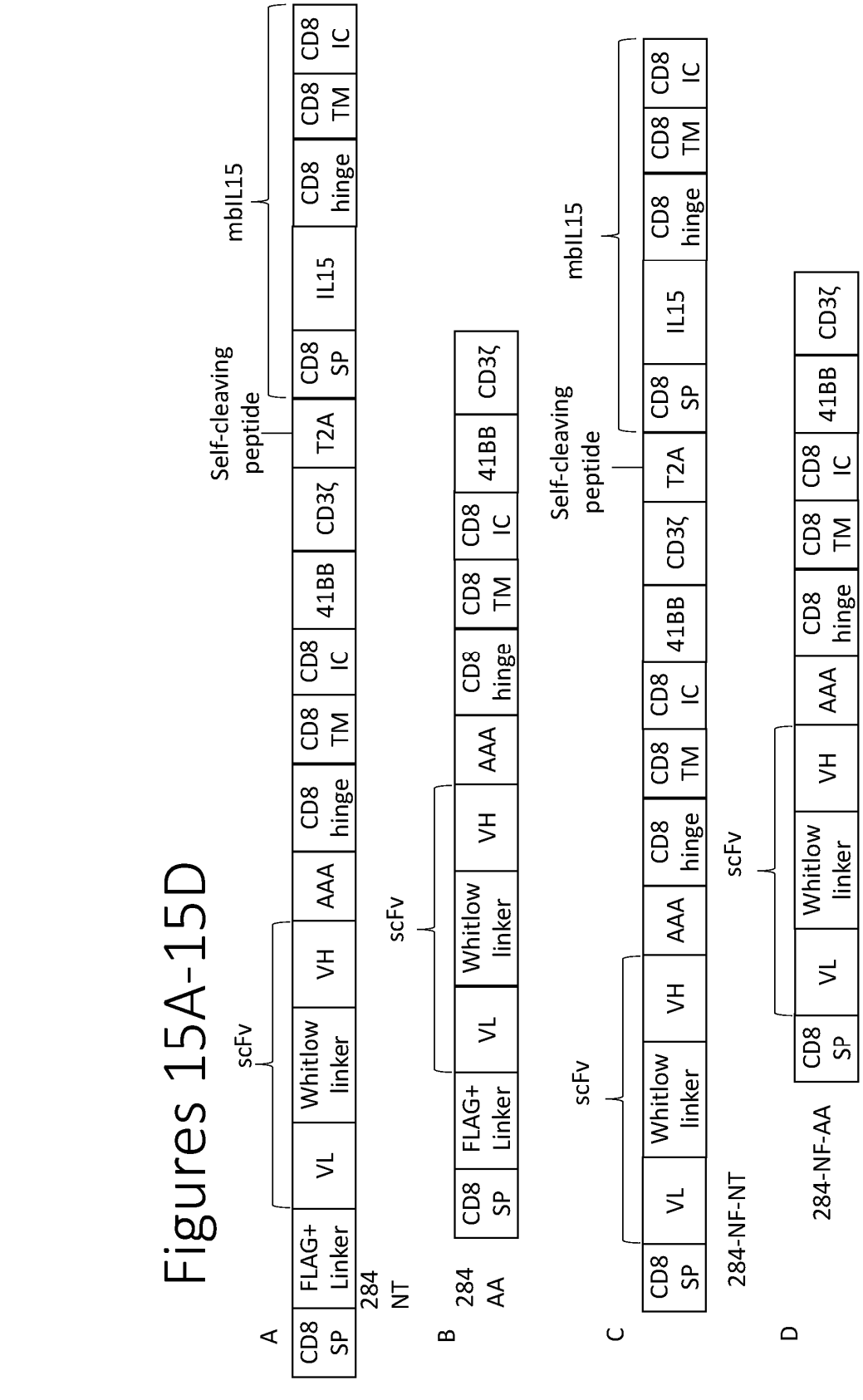
Figures 13A-13D



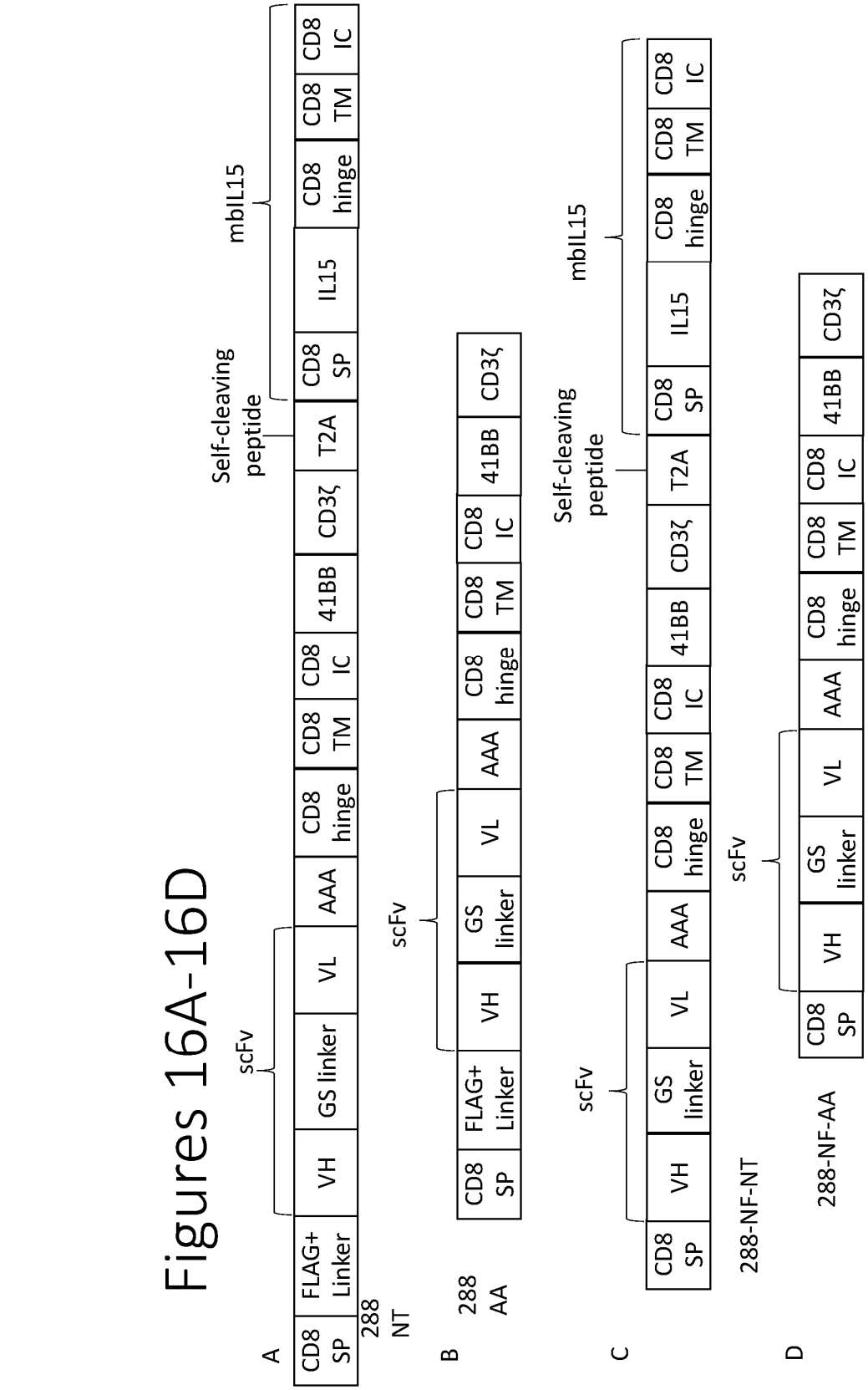
Figures 14A-14D



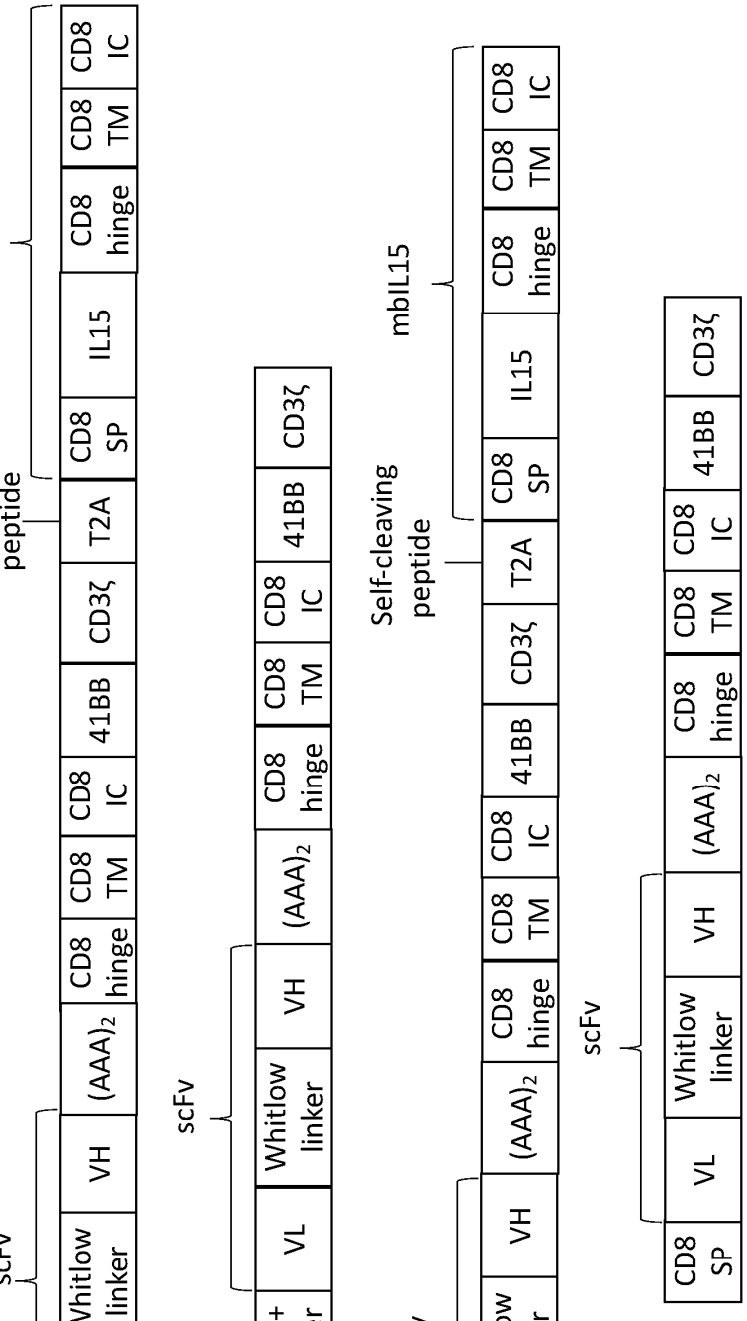
Figures 15A-15D



Figures 16A-16D



Figures 17A-17D



Figures 18A-18D

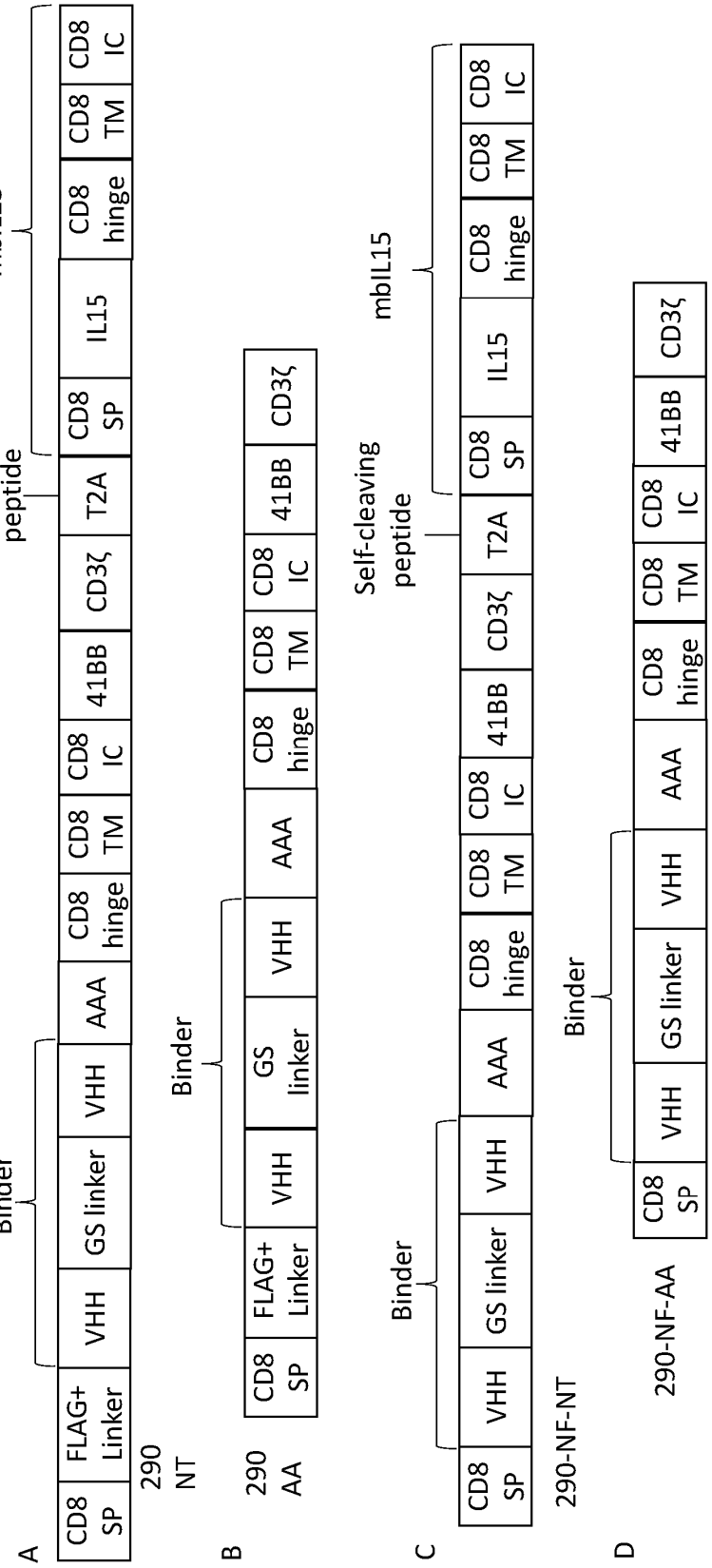
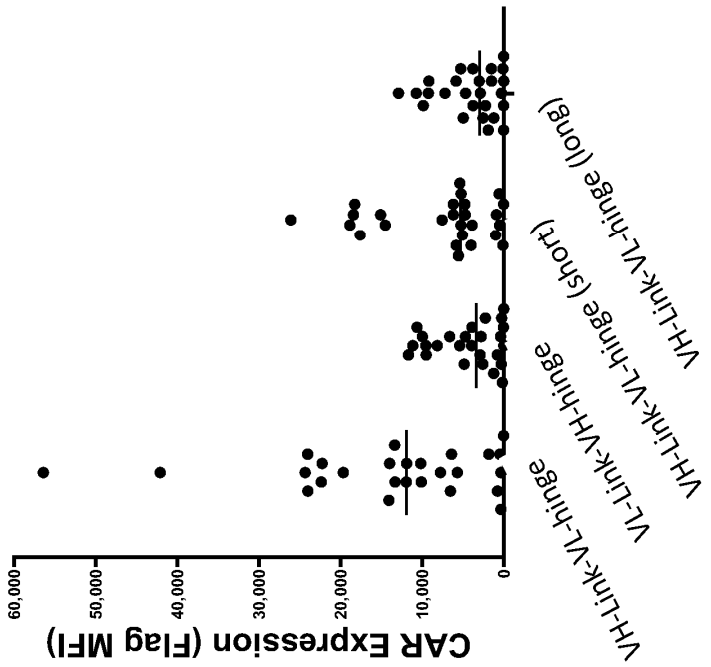


Figure 19


CAR Expression (Flag MFI)
60,000
50,000
40,000
30,000
20,000
10,000
0
VH-Link-VL-hinge
VL-Link-VH-hinge
VH-Link-VL-hinge (short)
VH-Link-VL-hinge (long)

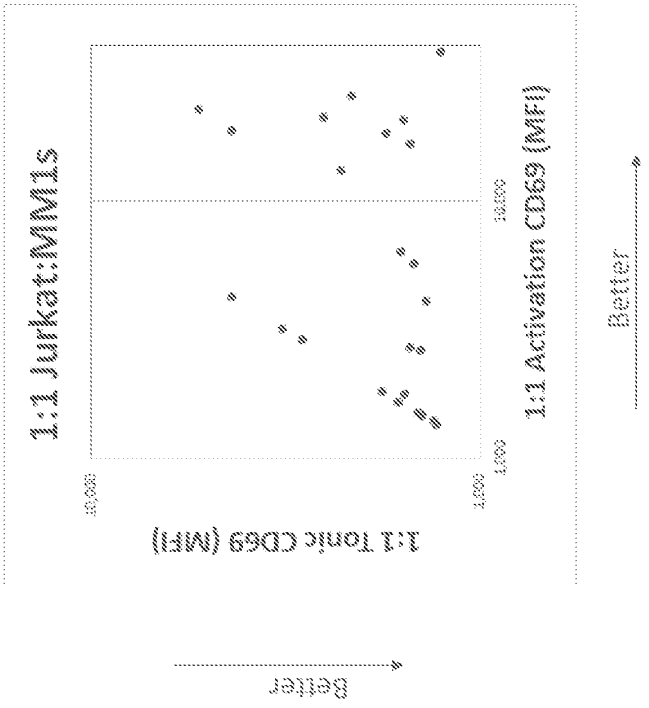

1:1 Jurkat:MM1s
1:1 Activation CD69 (MFI)
1:1 Tonic CD69 (MFI)
Better
Better

Figure 20

Figure 21

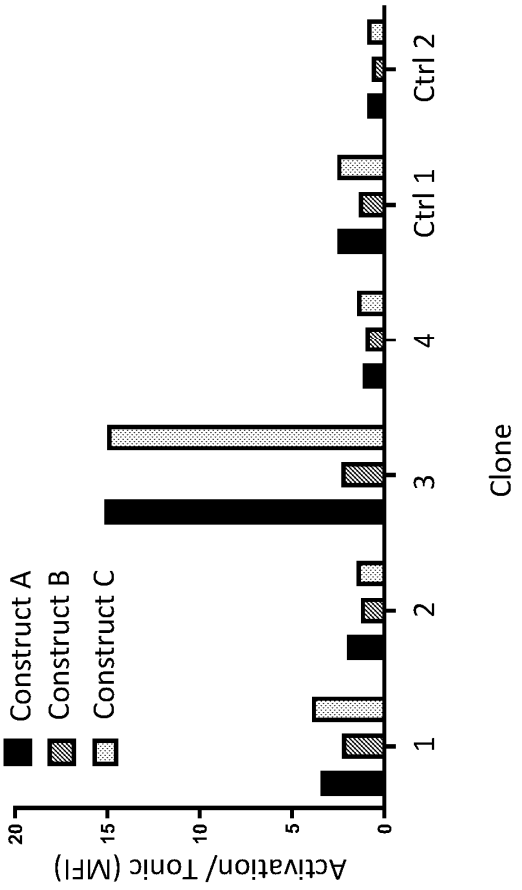
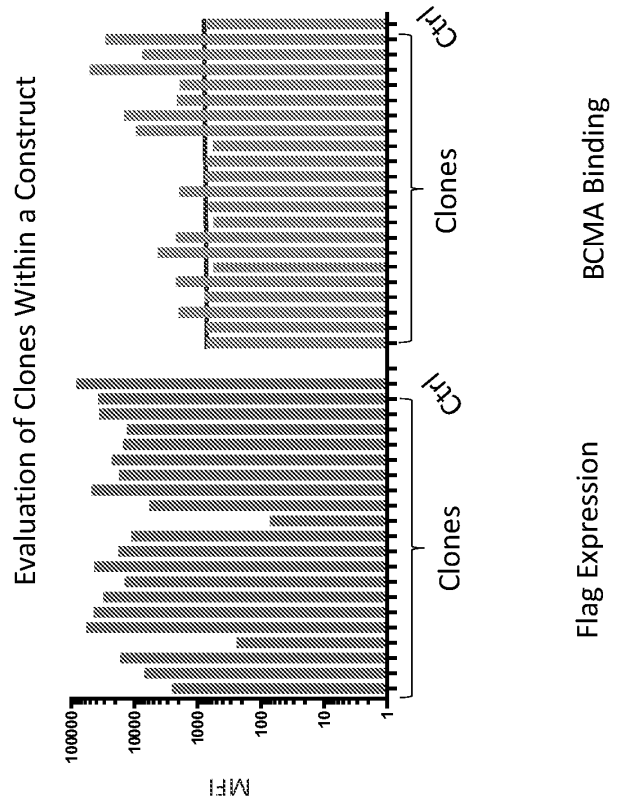

Construct A
Construct B
Construct C
Activation/ Tonic (MFI)
0
5
10
15
20
1
2
3
4
Ctrl 1
Ctrl 2
Clone

Figure 22


Evaluation of Clones Within a Construct
MFI
100000
10000
1000
100
10
1
Clones
Ctrl
Clones
Ctrl
Flag Expression
BCMA Binding

Figures 23A-23B

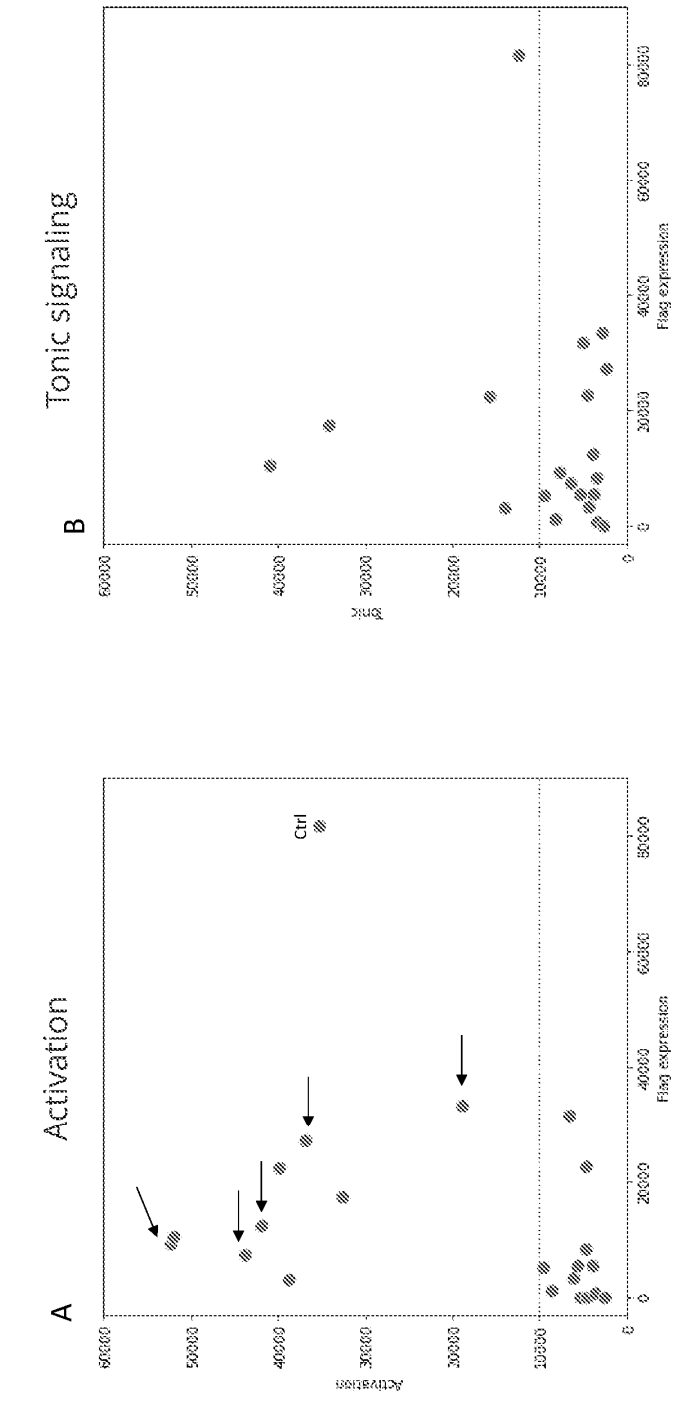


Figure 24

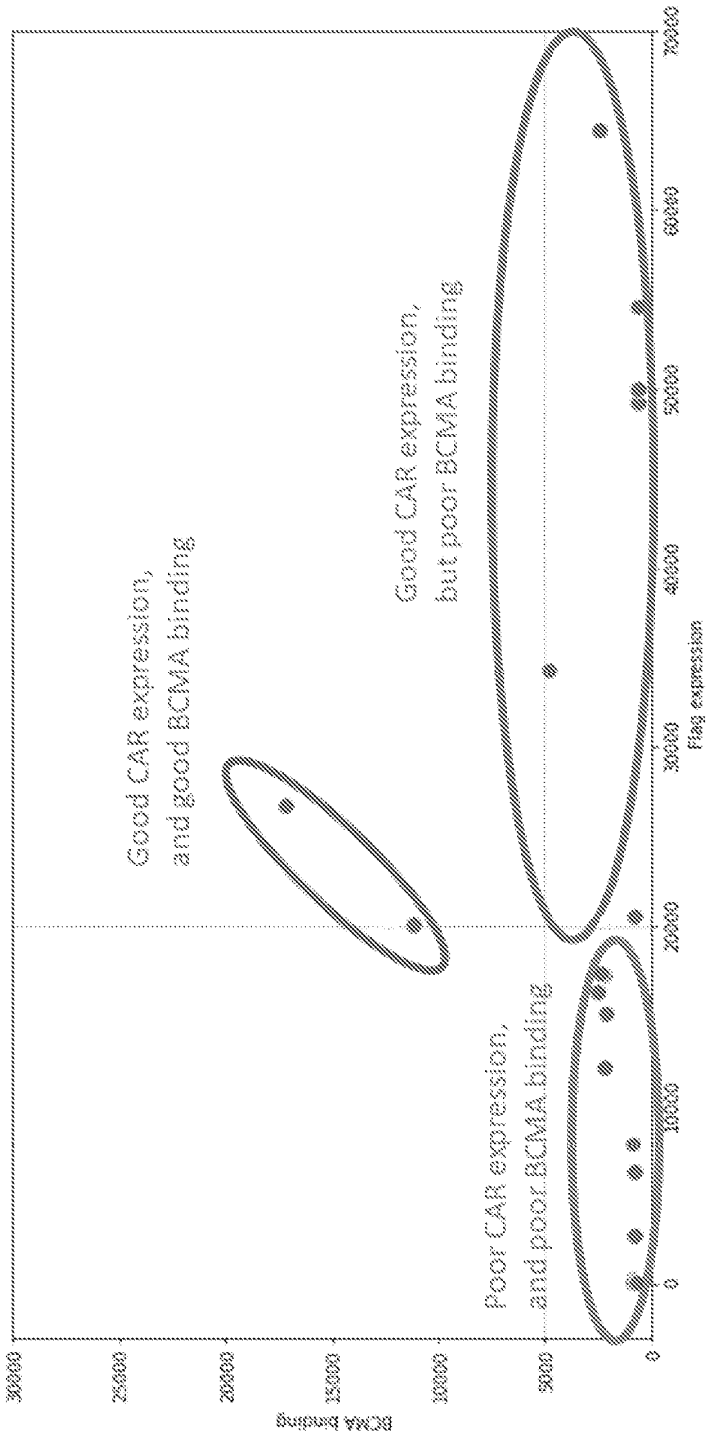
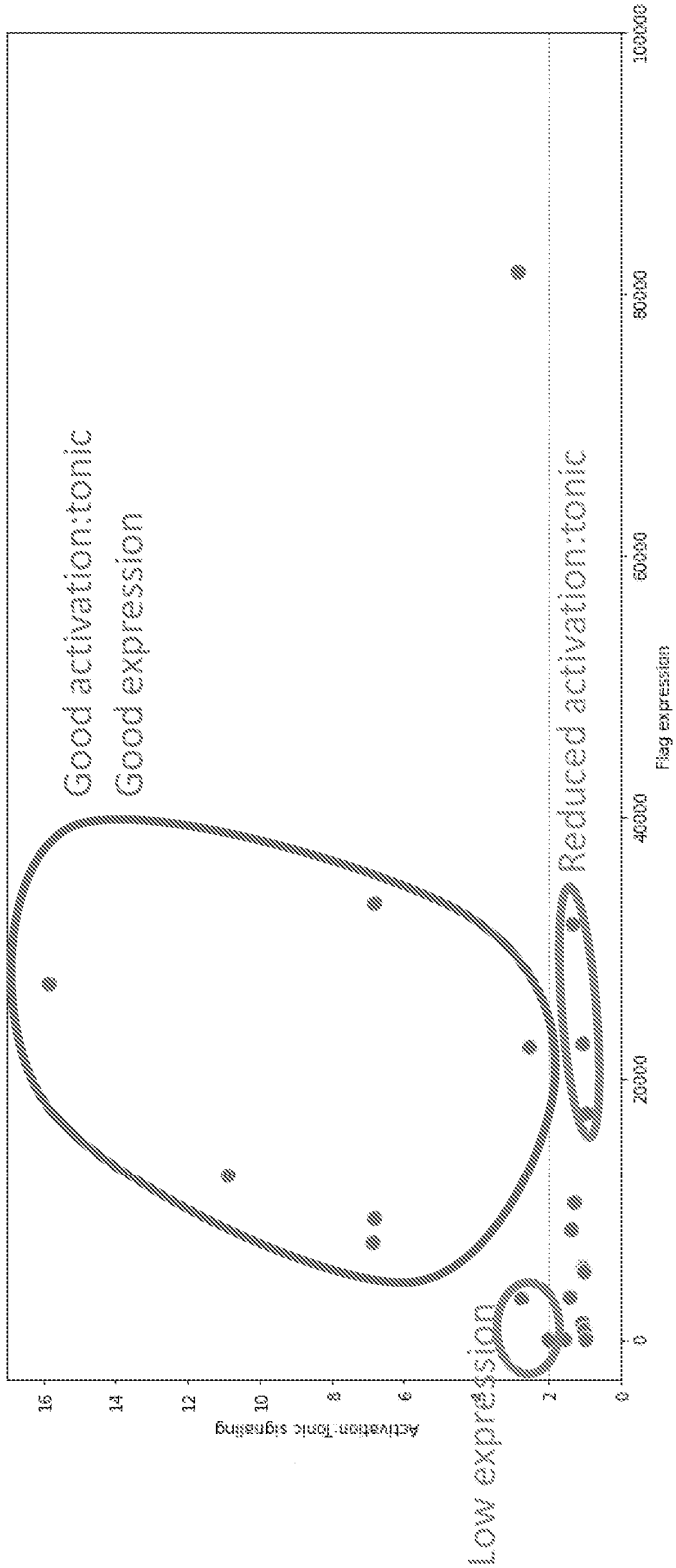
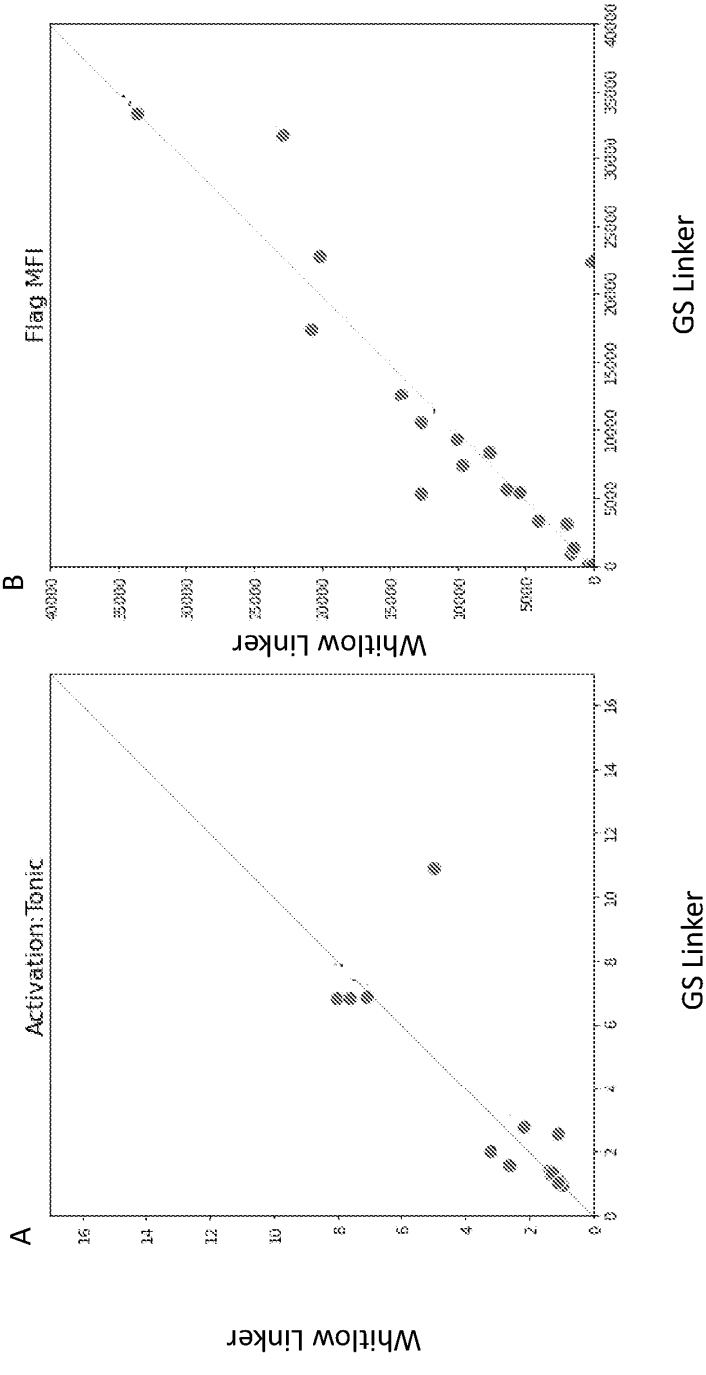

Good CAR expression,
and good BCMA binding
Good CAR expression,
but poor BCMA binding
Poor CAR expression,
and poor BCMA binding
BCMA binding
Flag expression
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000
70000

Figure 25


Good activation:tonic
Good expression
Reduced activation:tonic
Low expression
Activation_tonic signaling
Flag expression
0
2
6
8
10
12
14
16
0
20000
40000
60000
80000
100000

Figures 26A-26B



Figures 26C-26D

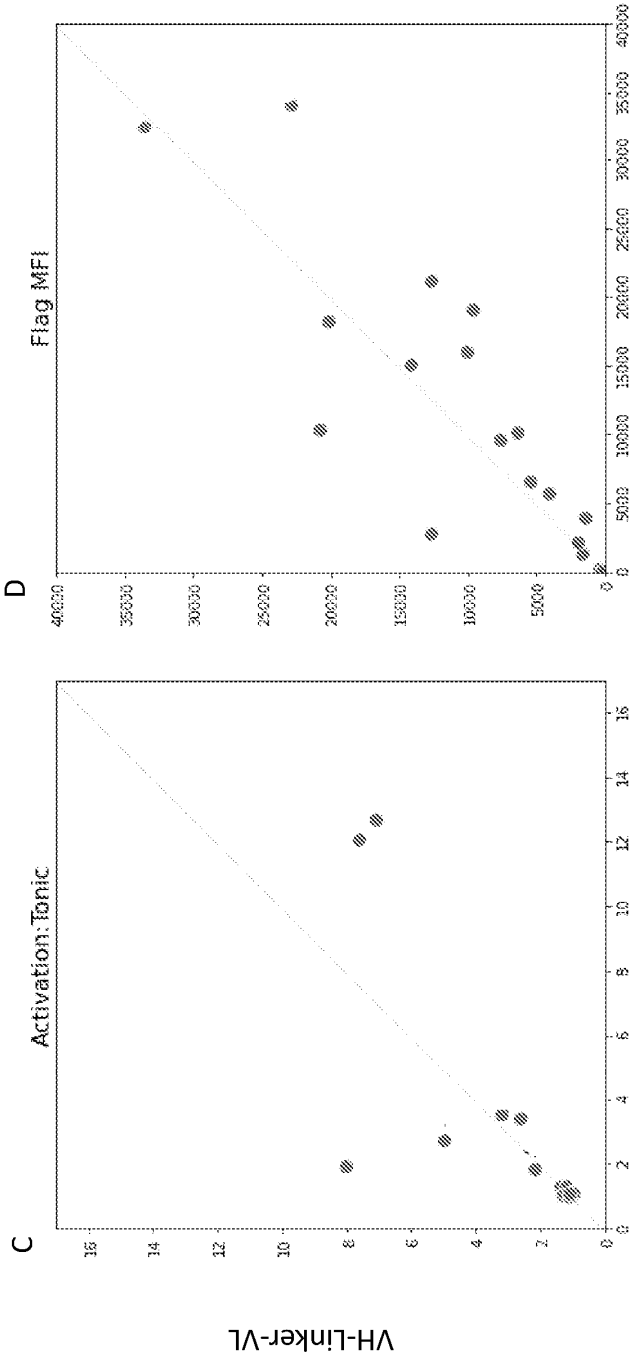


Figure 26E-26F

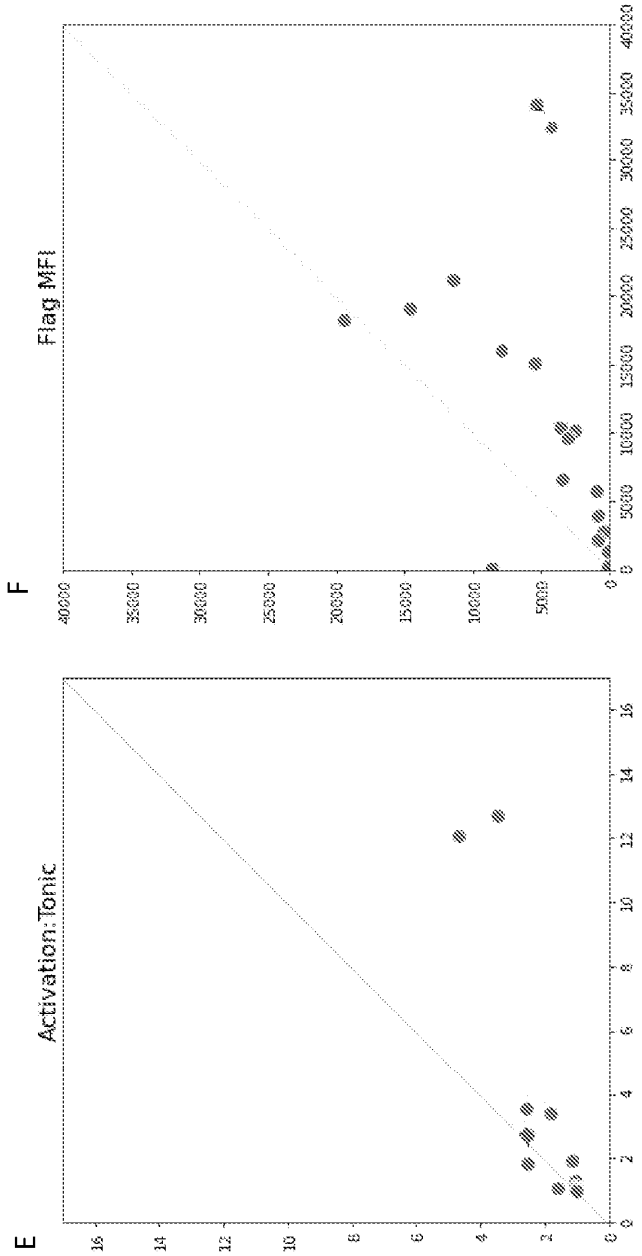
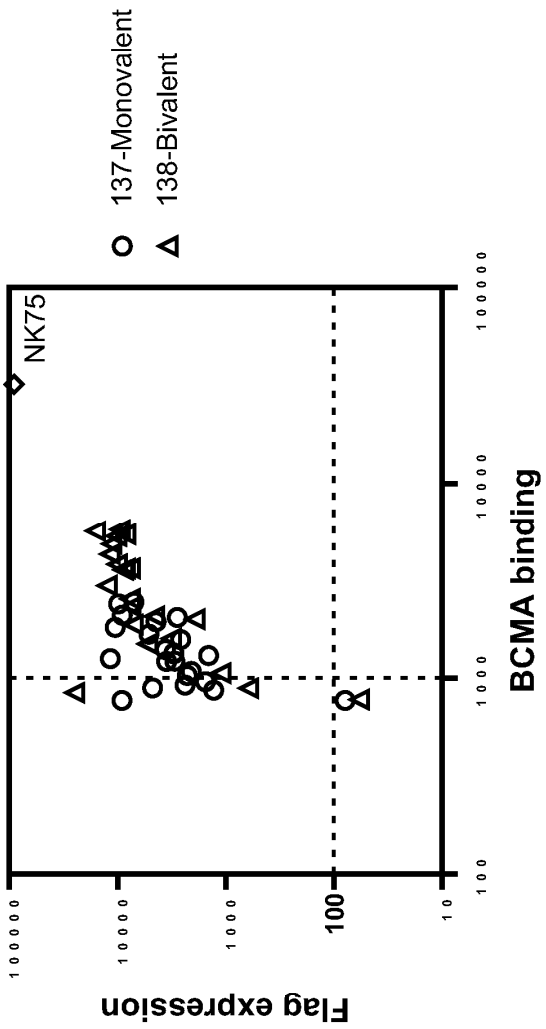
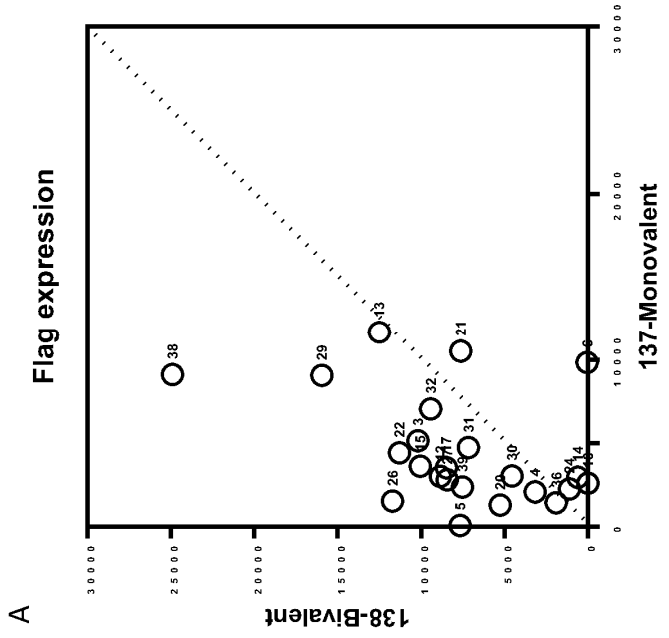
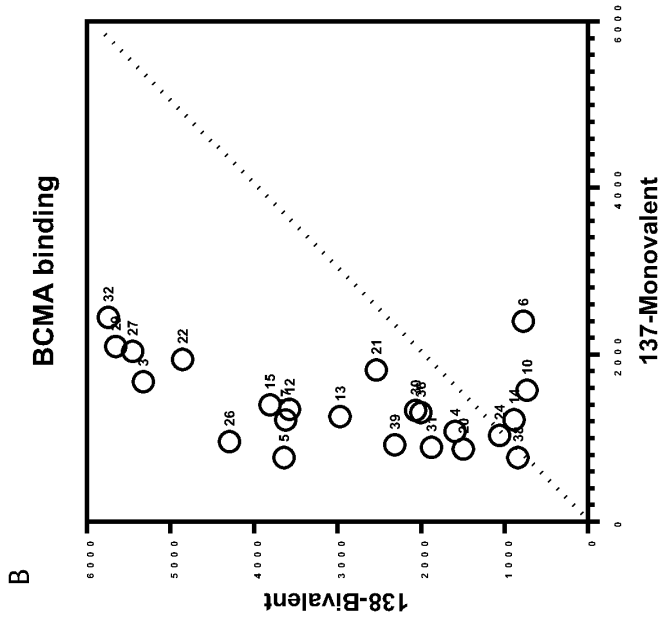


Figure 27

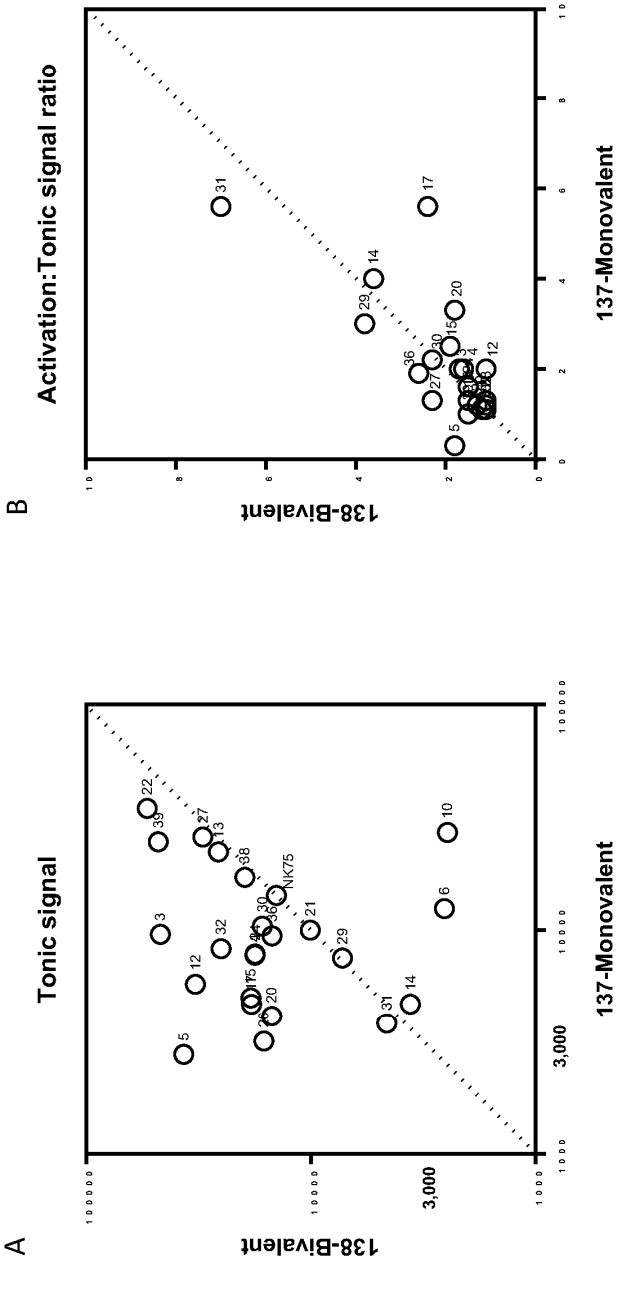

137-Monovalent
138-Bivalent
NK75
Flag expression
BCMA binding
100000
10000
1000
100
10
100
1000
10000
100000

Figures 28A-28B

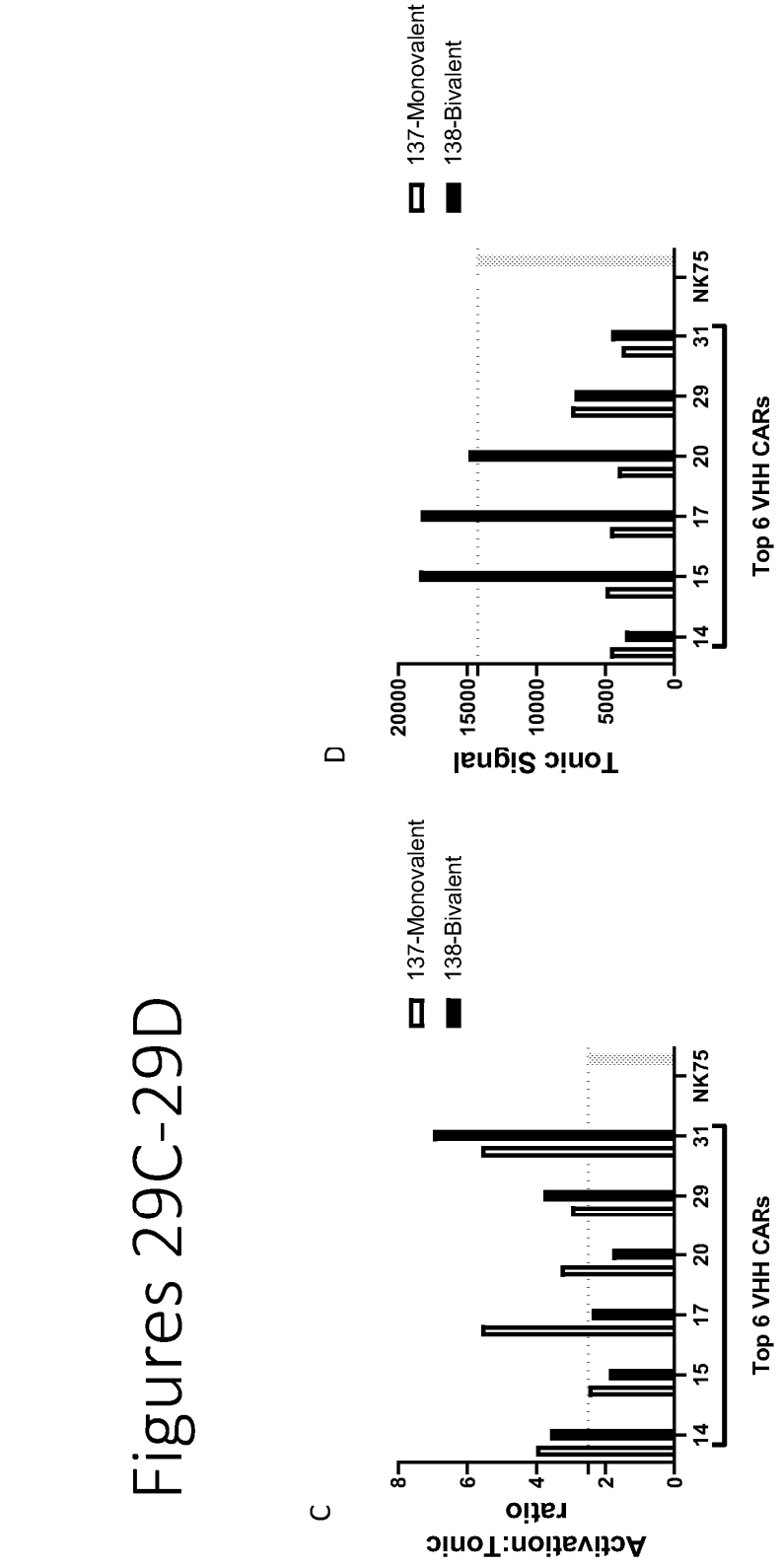




Figures 29A-29B



Figures 29C-29D



Figures 30A-30B

