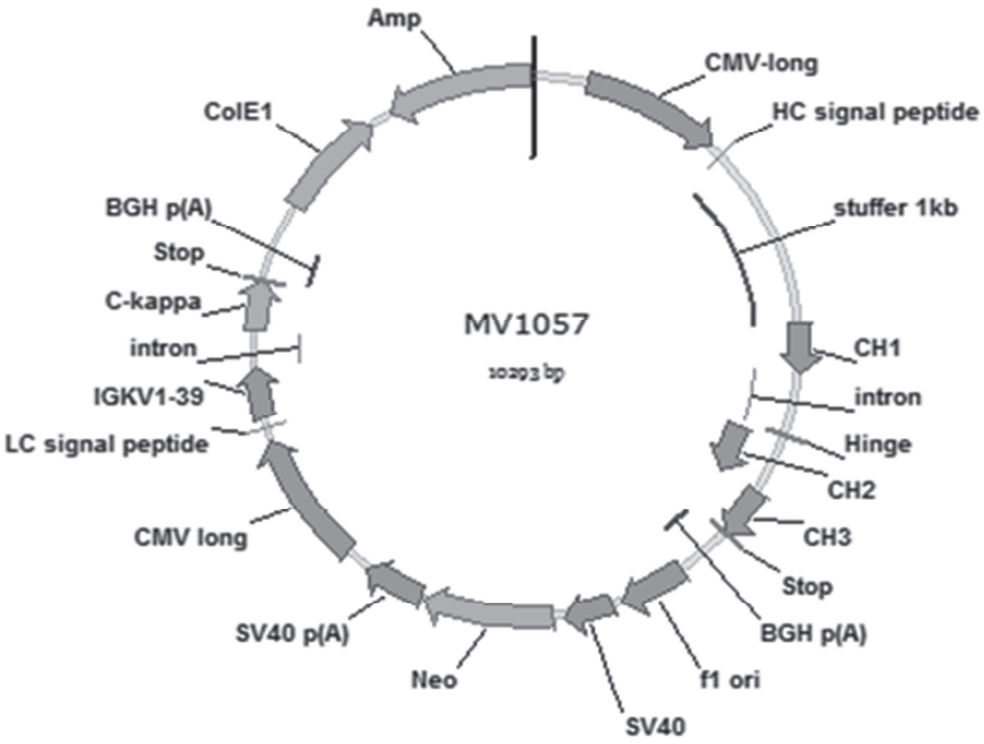
Figure 1:

A) schematic representation of construct vector MV1057



B) schematic representation of phage display vector MV1043

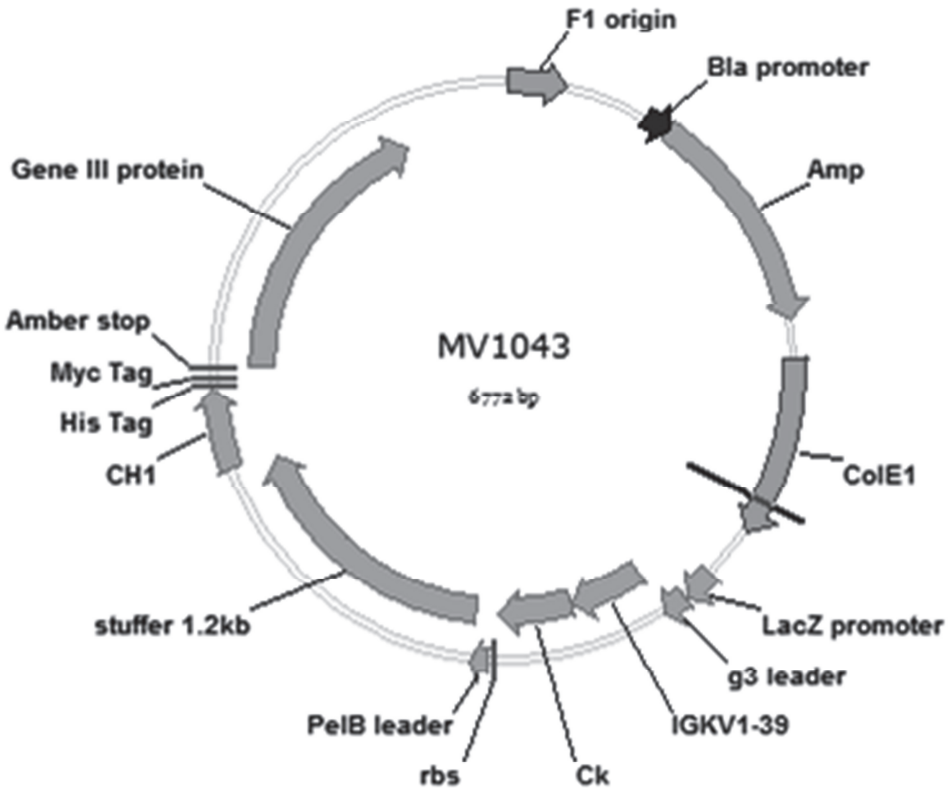
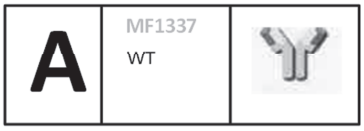
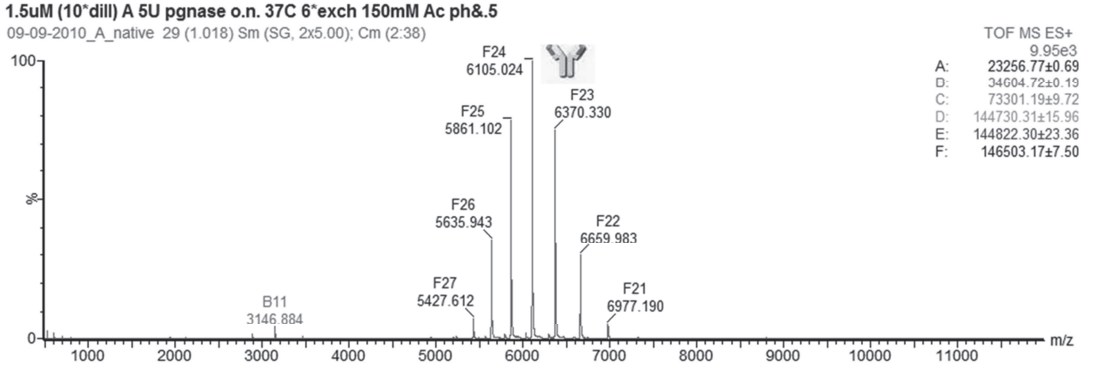
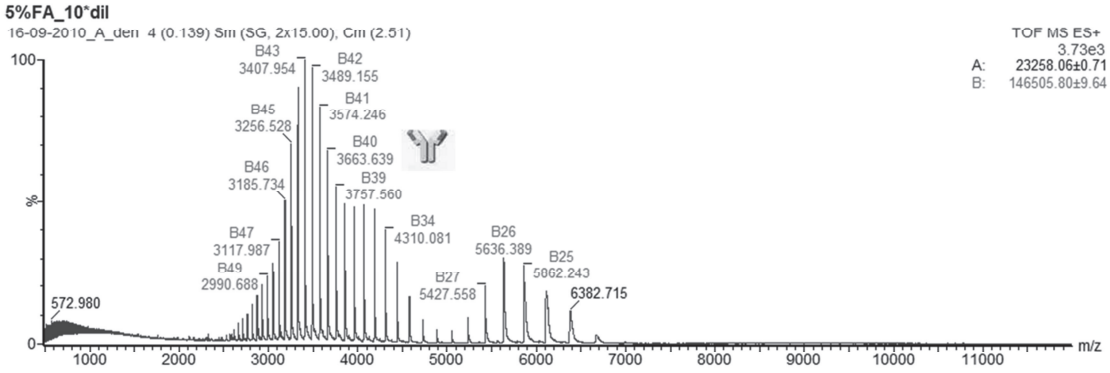
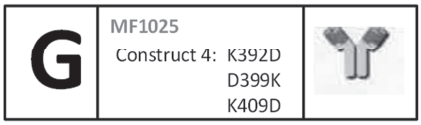


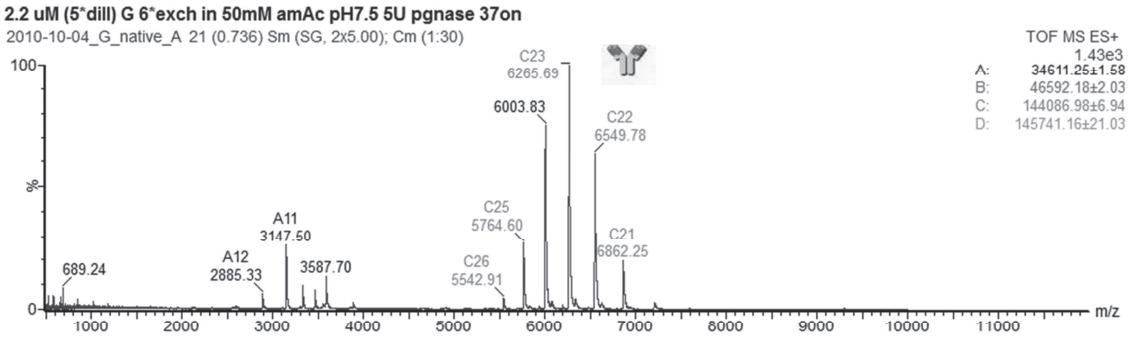
Figure 4: mass spec data of transfections A, G and H

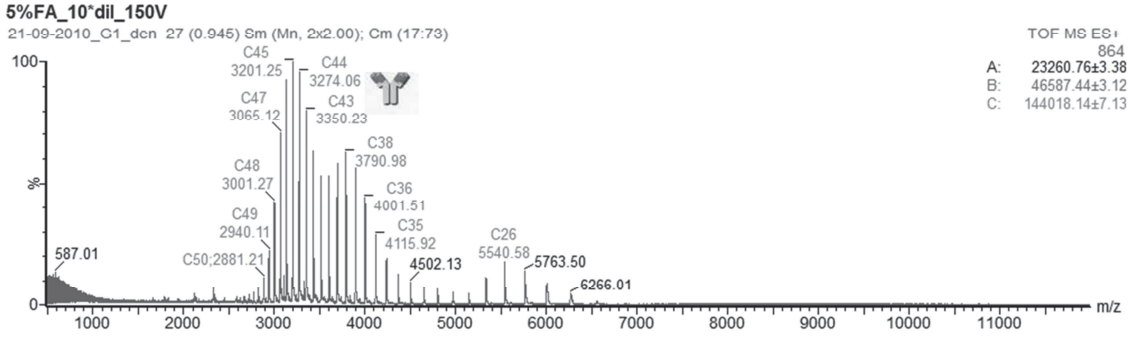








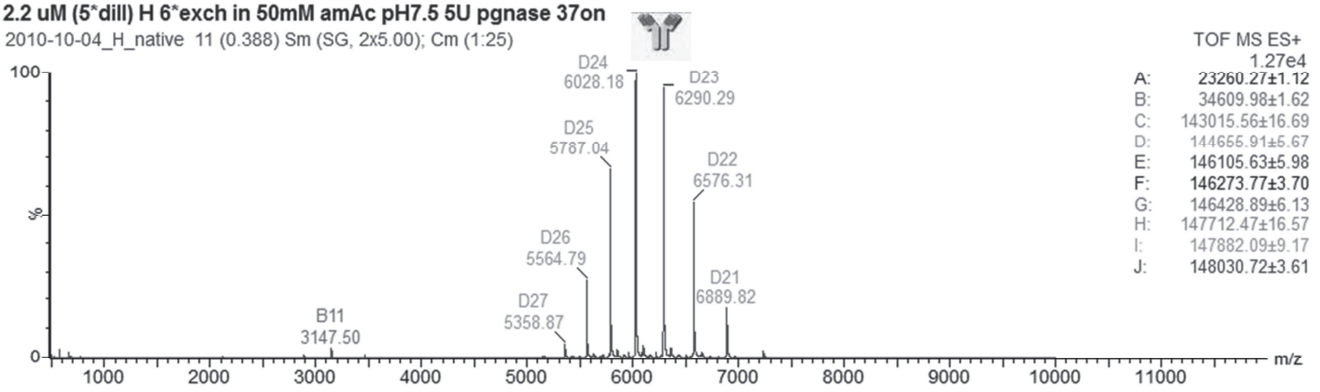




H	MF1122 Construct 5: E356K E357K K439D K370D	

2.2 uM (5*dill) H 6*exch in 50mM amAc pH7.5 5U pgnase 37on

2010-10-04_H_native 11 (0.388) Sm (SG, 2x5.00); Cm (1:25)



5%FA_10*dil_150V

21-09-2010_H_den 12 (0.420) Sm (Mn, 2x2.00); Cm (7:53)

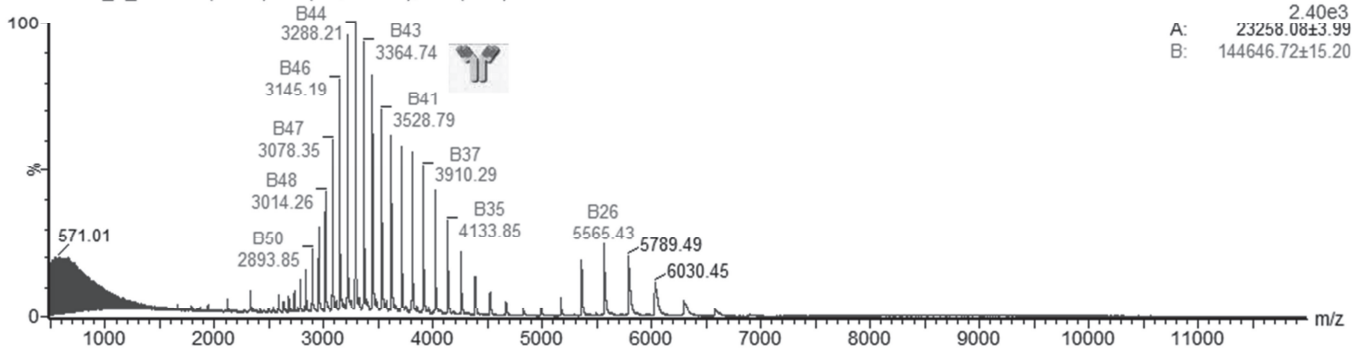
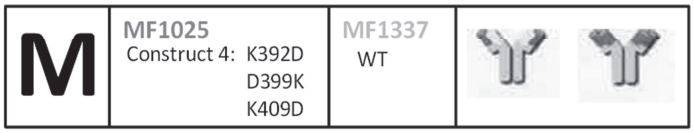
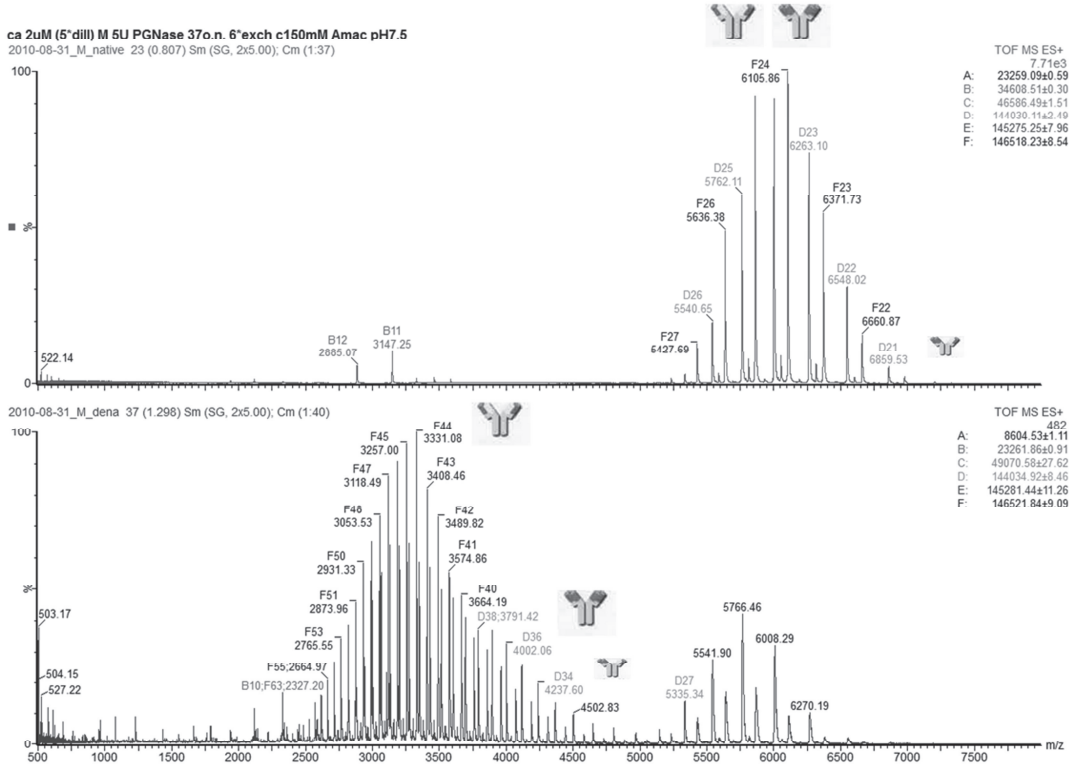
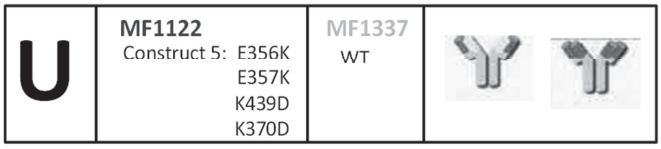


Figure 5


M
MF1025
Construct 4: K392D
D399K
K409D
MF1337
WT


ca 2uM (5*dill) M 5U PGNase 37o.n. 6*exch c150mM Amac pH7.5
2010-08-31_M_native 23 (0.807) Sm (SG, 2x5.00); Cm (1:37)
TOF MS ES+
7.71e3
A: 23259.09±0.59
B: 34608.51±0.30
C: 46586.49±1.51
D: 144030.11±2.49
E: 145275.25±7.96
F: 146518.23±8.54
F24 6105.86
D23 6263.10
D25 5762.11
F23 6371.73
F26 5636.38
D22 6548.02
D26 5540.65
F22 6660.87
F27 5427.69
D21 6859.53
B12 2885.07
B11 3147.25
522.14
2010-08-31_M_dena 37 (1.298) Sm (SG, 2x5.00); Cm (1:40)
TOF MS ES+
482
A: 8604.53±1.11
B: 23261.86±0.91
C: 49070.58±27.62
D: 144034.92±8.46
E: 145281.44±11.26
F: 146521.84±9.09
F44 3331.08
F45 3257.00
F47 3118.49
F43 3408.46
F46 3053.53
F42 3489.82
F50 2931.33
F41 3574.86
F51 2873.96
F40 3664.19
D38;3791.42
F53 2765.55
D36 4002.06
F55;2664.97
B10;F63;2327.20
D34 4237.60
D27 5335.34
4502.83
5766.46
6008.29
5541.90
6270.19
503.17
504.15
527.22
m/z


U
MF1122
Construct 5: E356K
E357K
K439D
K370D
MF1337
WT

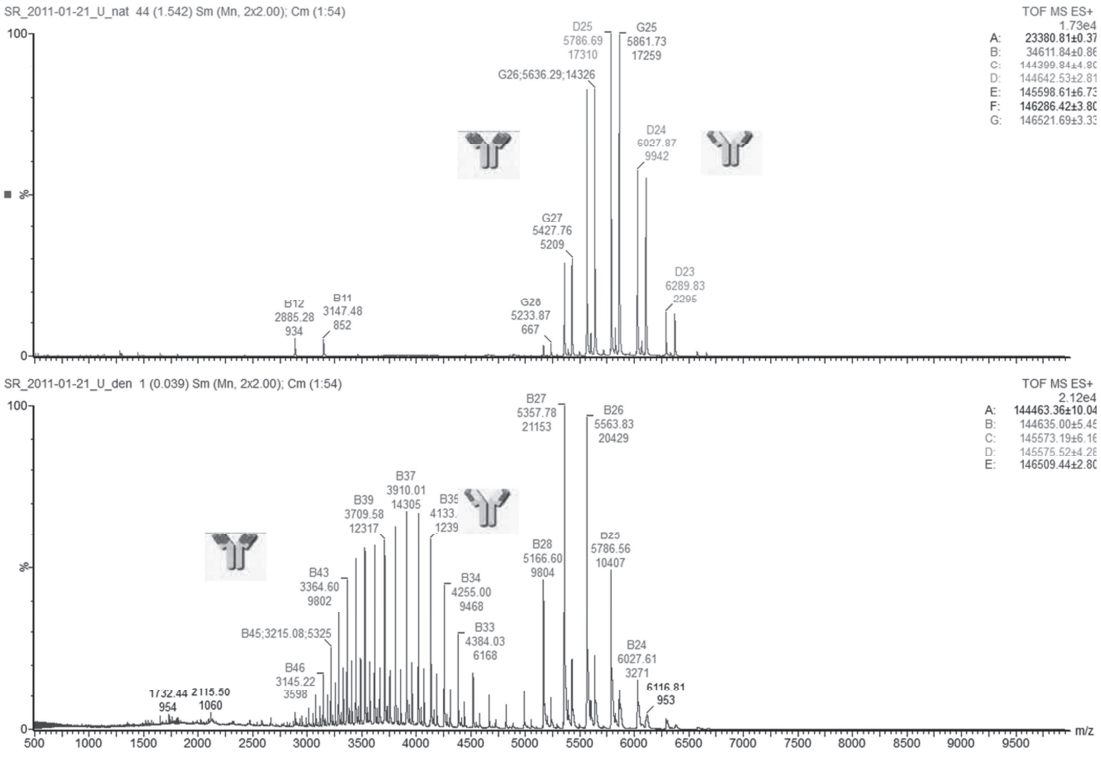

SR_2011-01-21_U_nat 44 (1.542) Sm (Mn, 2x2.00); Cm (1:54)
TOF MS ES+
1.73e4
A: 23380.81±0.37
B: 34611.84±0.86
C: 144399.84±4.80
D: 144642.53±2.81
E: 145598.61±6.73
F: 146286.42±3.80
G: 146521.69±3.33
D25 5786.69 17310
G25 5861.73 17259
G26;5636.29;14326
D24 6027.97 9942
G27 5427.76 5209
D23 6289.83
B11 3147.48 852
B12 2885.28 934
G28 5233.87 667
SR_2011-01-21_U_den 1 (0.039) Sm (Mn, 2x2.00); Cm (1:54)
TOF MS ES+
2.12e4
A: 144463.36±10.04
B: 144635.00±5.45
C: 145573.19±6.16
D: 145575.52±4.28
E: 146509.44±2.80
B27 5357.78 21153
B26 5563.83 20429
B37 3910.01 14305
B39 3709.58 12317
B35 4133. 1239
B28 5166.60 9804
D25 5786.56 10407
B43 3364.60 9802
B34 4255.00 9468
B45;3215.08;5325
B33 4384.03 6168
B46 3145.22 3598
B24 6027.61 3271
1732.44 2115.50 954 1060
6116.81 953
m/z

Figure 6:

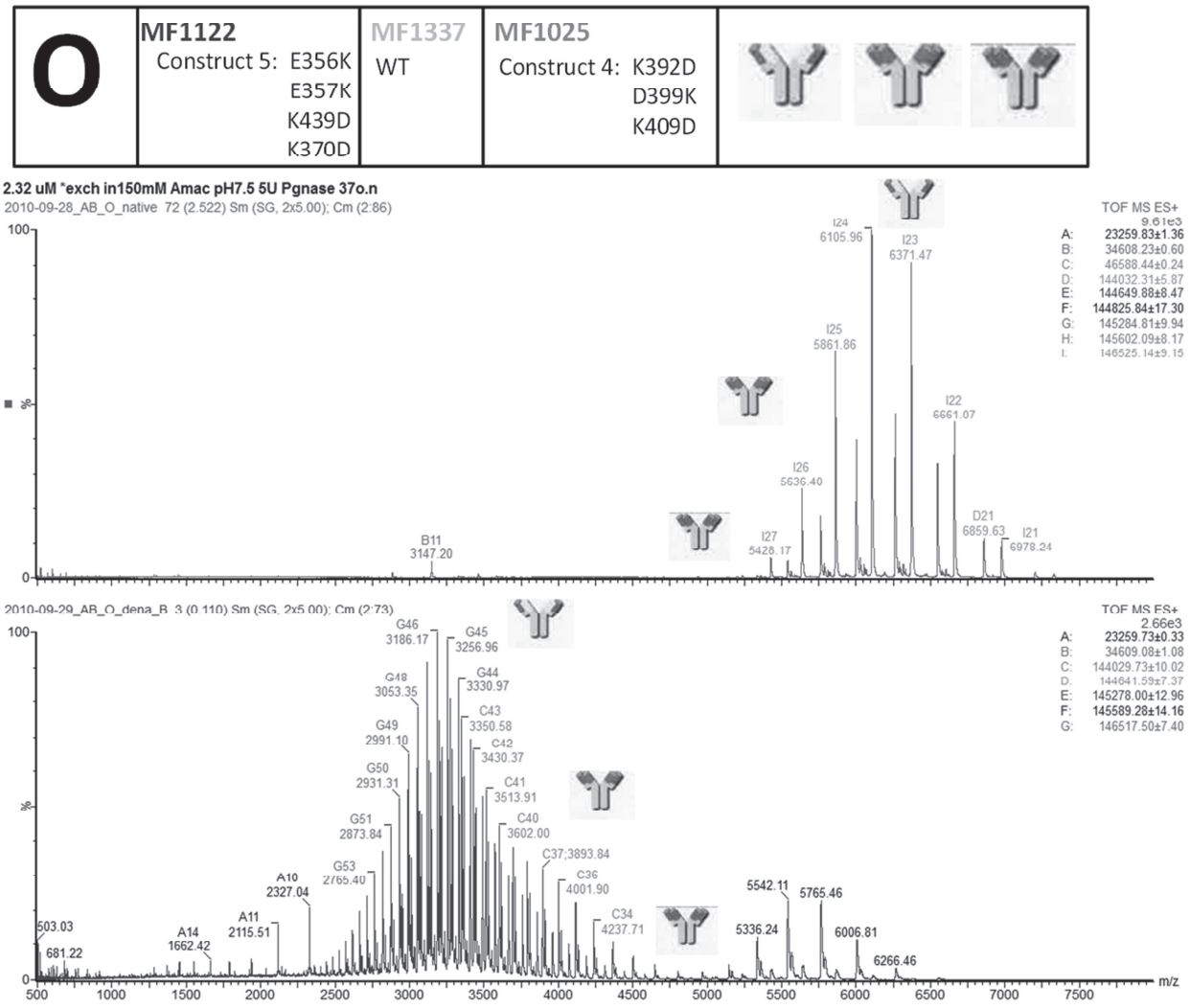
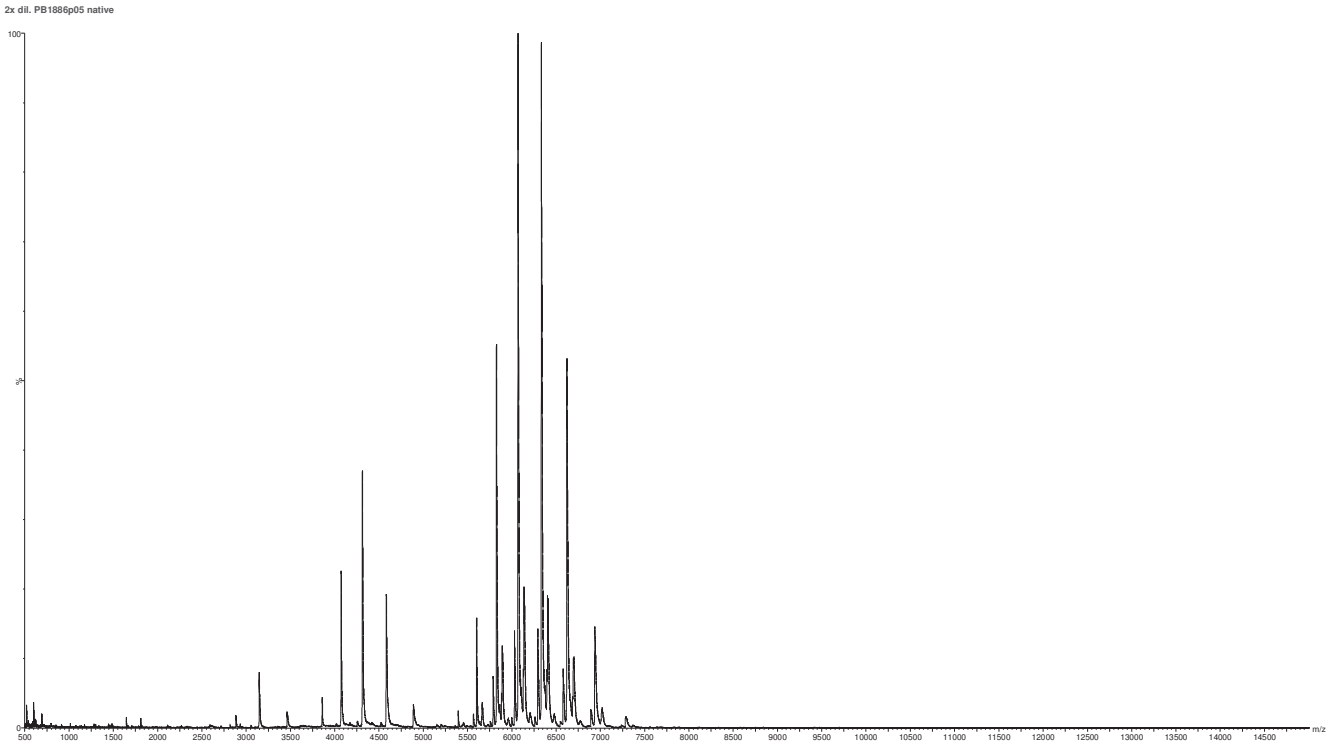
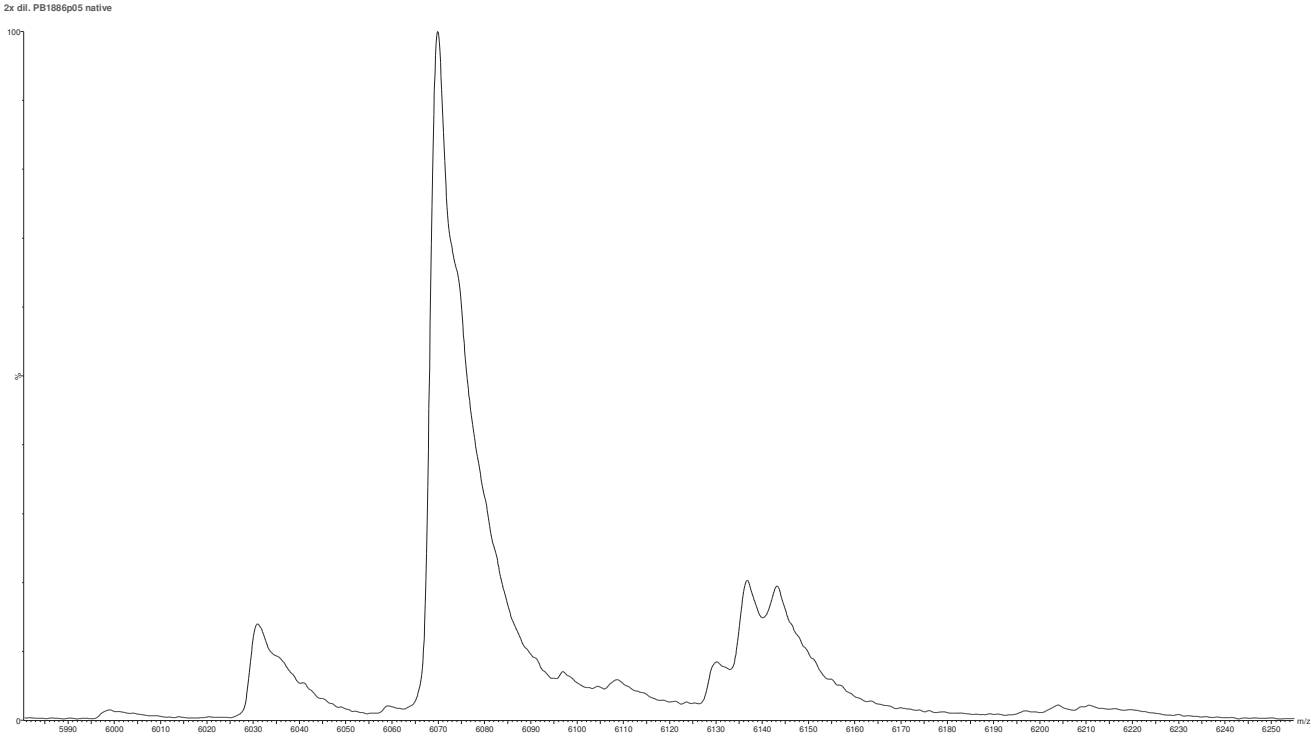

O
MF1122
Construct 5: E356K
E357K
K439D
K370D
MF1337
WT
MF1025
Construct 4: K392D
D399K
K409D
2.32 uM *exch in150mM Amac pH7.5 5U Pgnase 37o.n
2010-09-28_AB_O_native 72 (2.522) Sm (SG, 2x5.00); Cm (2:86)
TOF MS ES+
9.61e3
A: 23259.83±1.36
B: 34608.23±0.60
C: 46588.44±0.24
D: 144032.31±5.87
E: 144649.88±8.47
F: 144825.84±17.30
G: 145284.81±9.94
H: 145602.09±8.17
I: 146525.14±9.15
I24 6105.96
I23 6371.47
I25 5861.86
I22 6661.07
I26 5636.40
D21 6859.63
I21 6978.24
I27 5426.17
B11 3147.20
2010-09-29_AB_O_deng_B_3 (0.110) Sm (SG, 2x5.00); Cm (2:73)
TOF MS ES+
2.66e3
A: 23259.73±0.33
B: 34609.08±1.08
C: 144029.73±10.02
D: 144641.59±7.37
E: 145278.00±12.96
F: 145589.28±14.16
G: 146517.50±7.40
G46 3186.17
G45 3256.96
G48 3053.35
G44 3330.97
G49 2991.10
C43 3350.58
C42 3430.37
G50 2931.31
C41 3513.91
G51 2873.84
C40 3602.00
C37;3893.84
G53 2765.40
C36 4001.90
A10 2327.04
C34 4237.71
A11 2115.51
A14 1662.42
503.03
681.22
5542.11
5765.46
5336.24
6006.81
6266.46
%
m/z
100
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
6500
7000
7500

Figure 8:



A) Native MS spectrum of transfection sample ZO (T366K/L351'D)



B) Convoluted MS spectrum of transfection sample ZO (T366K/L351'D). The second/main peak represents the bispecific molecule.

Figure 28:

