

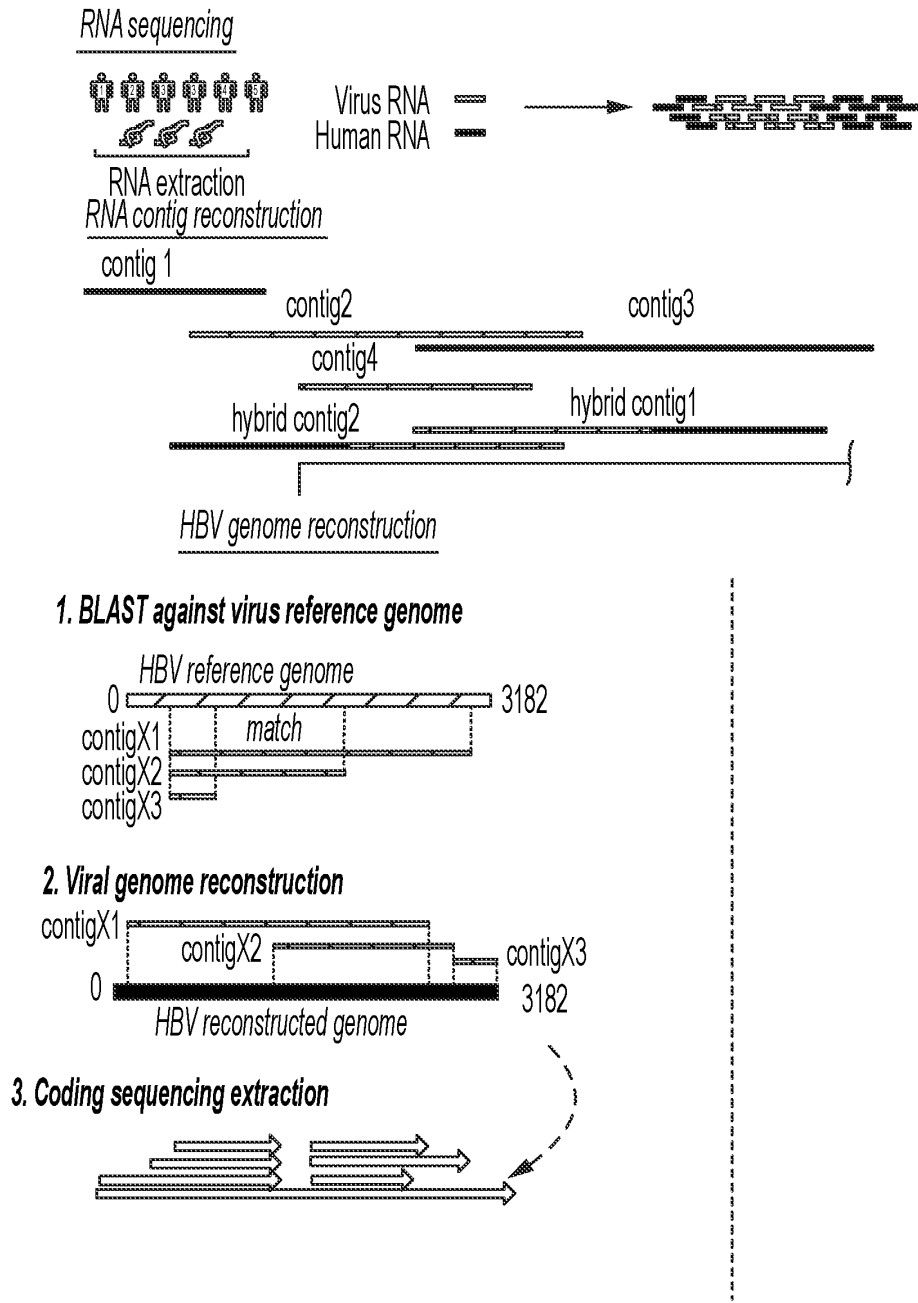


FIG. 1A

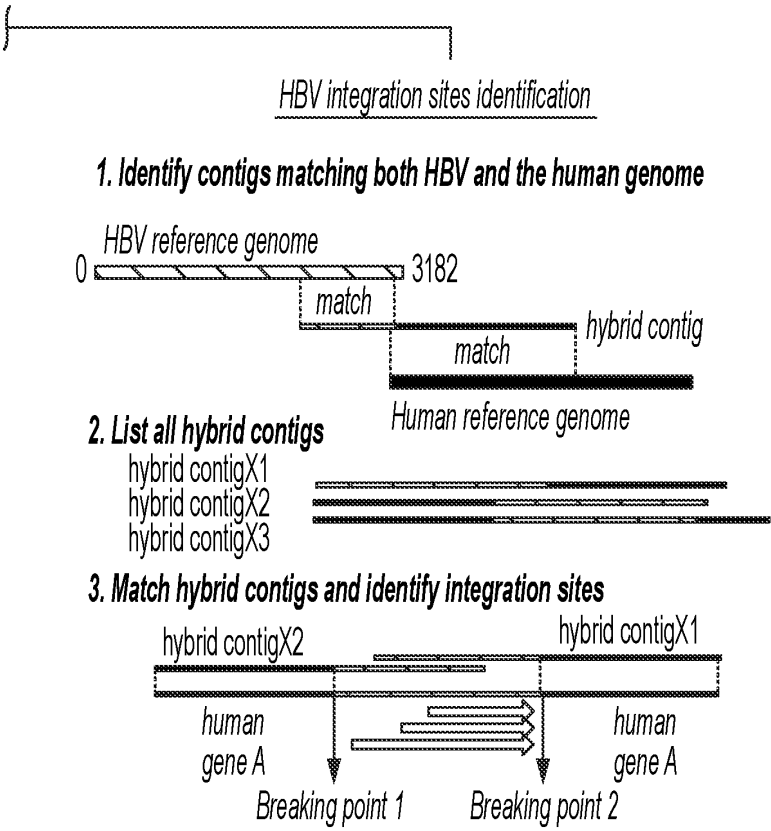


FIG. 1A
CONTINUED

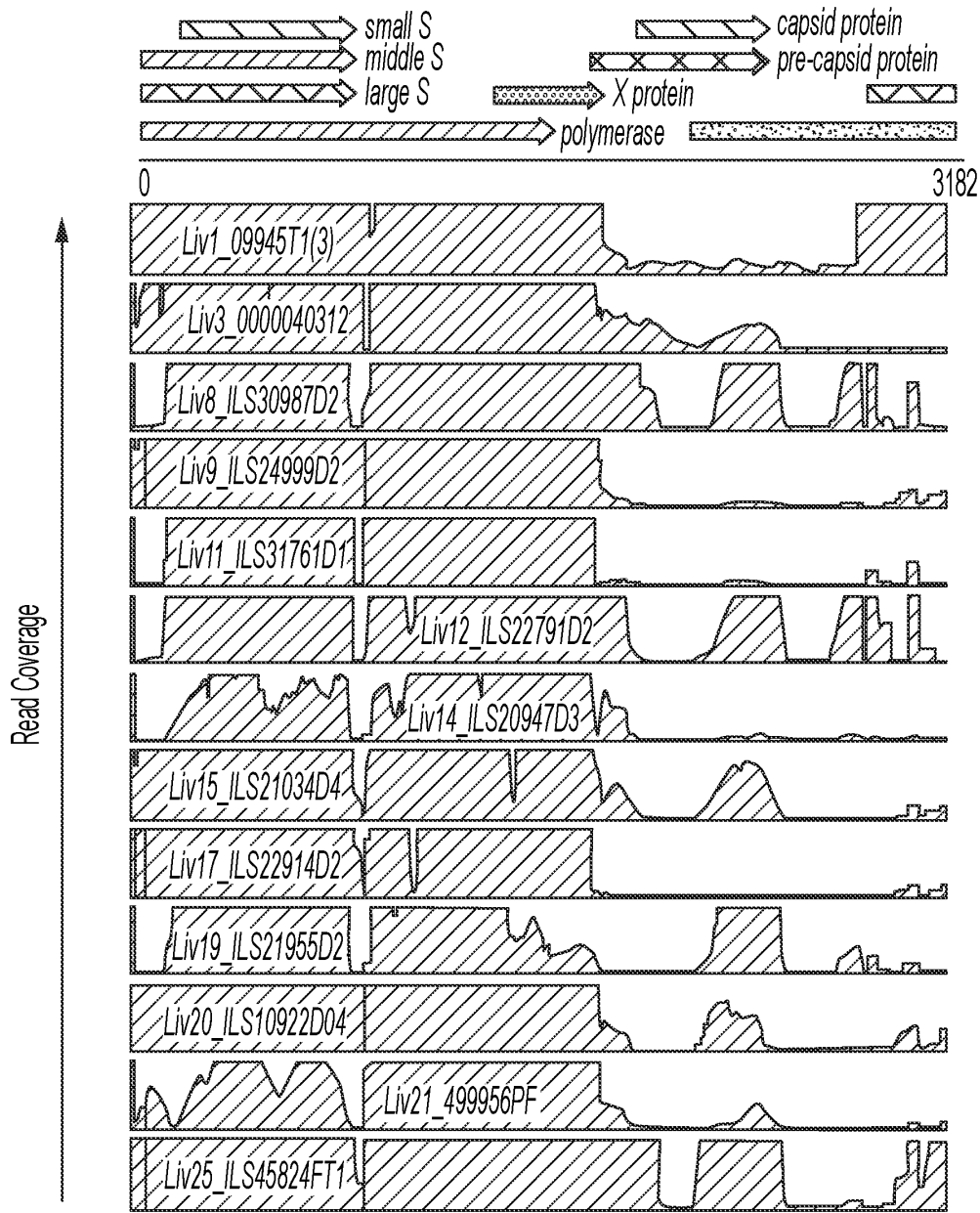


FIG. 1B

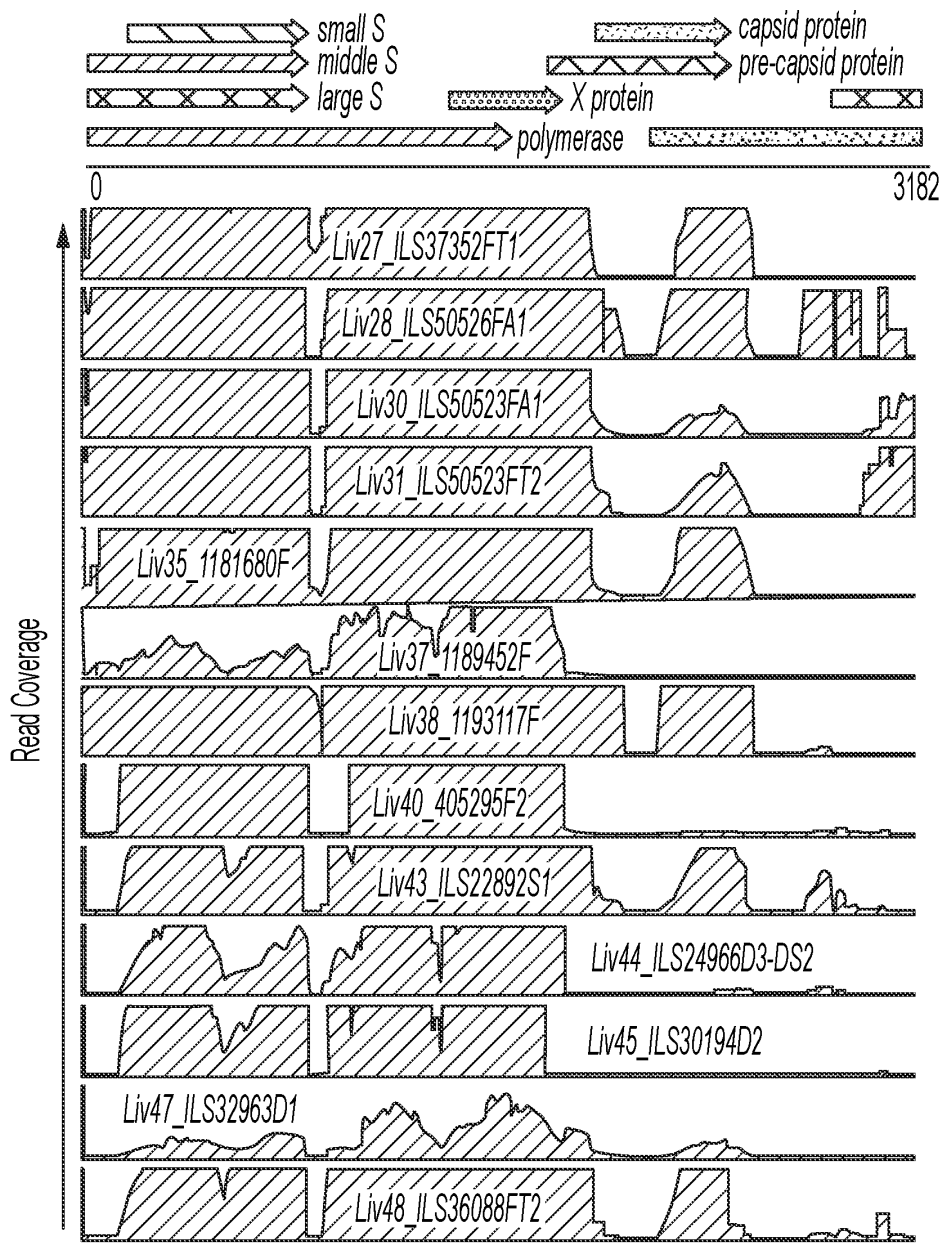


FIG. 1B
CONTINUED

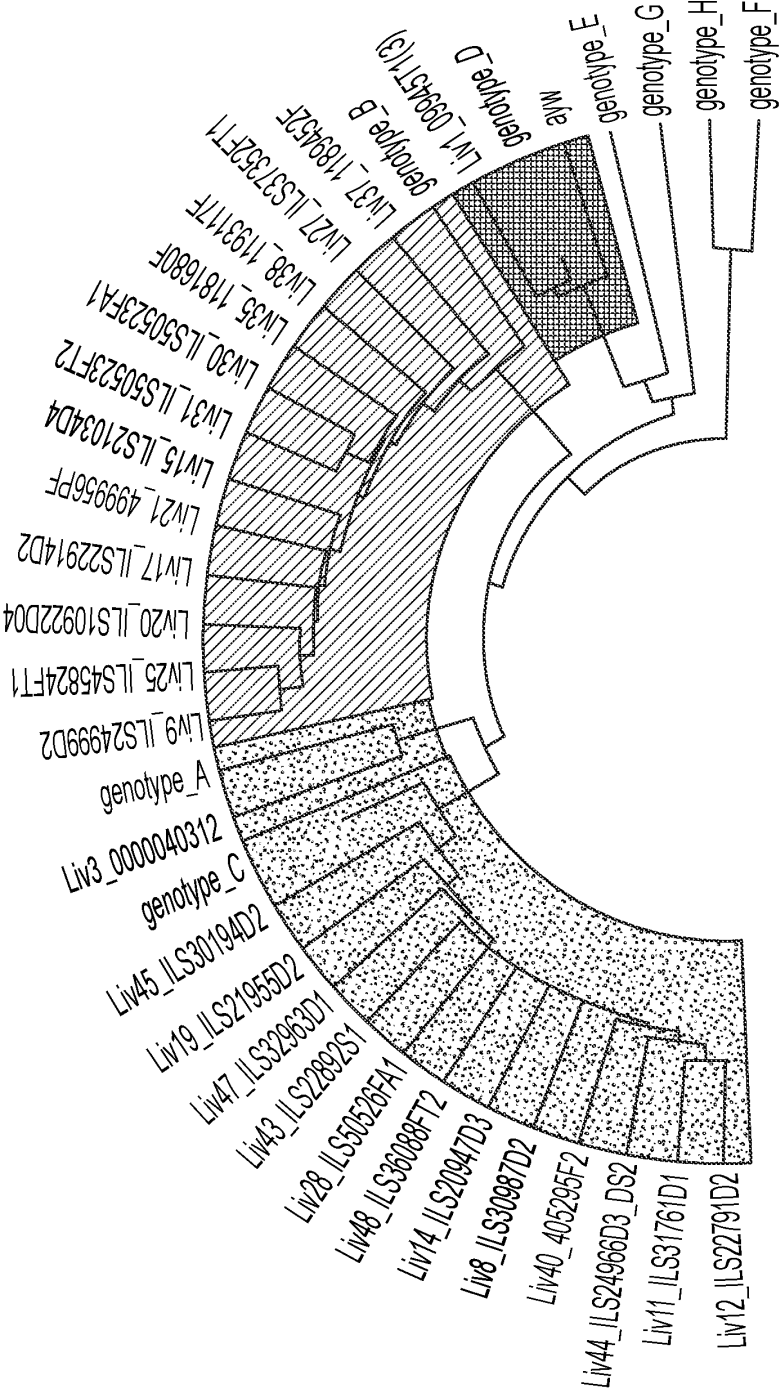


FIG. 1C

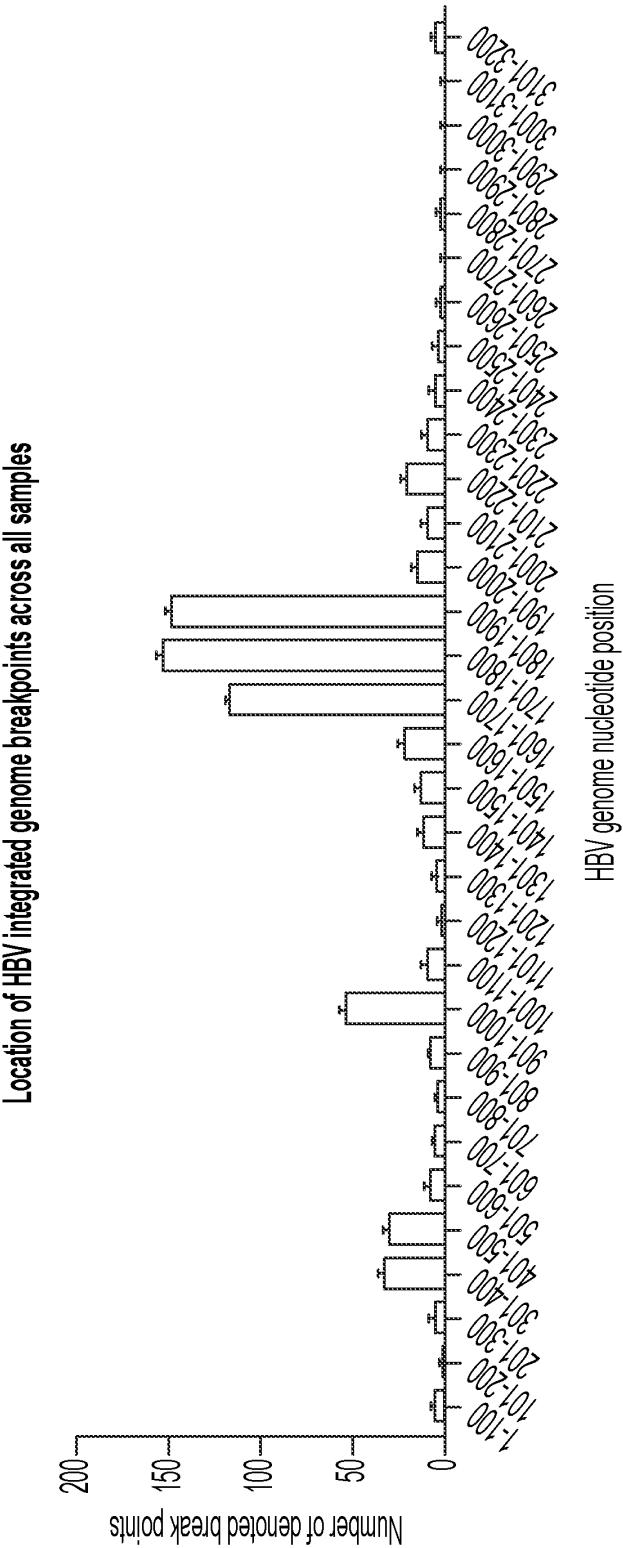
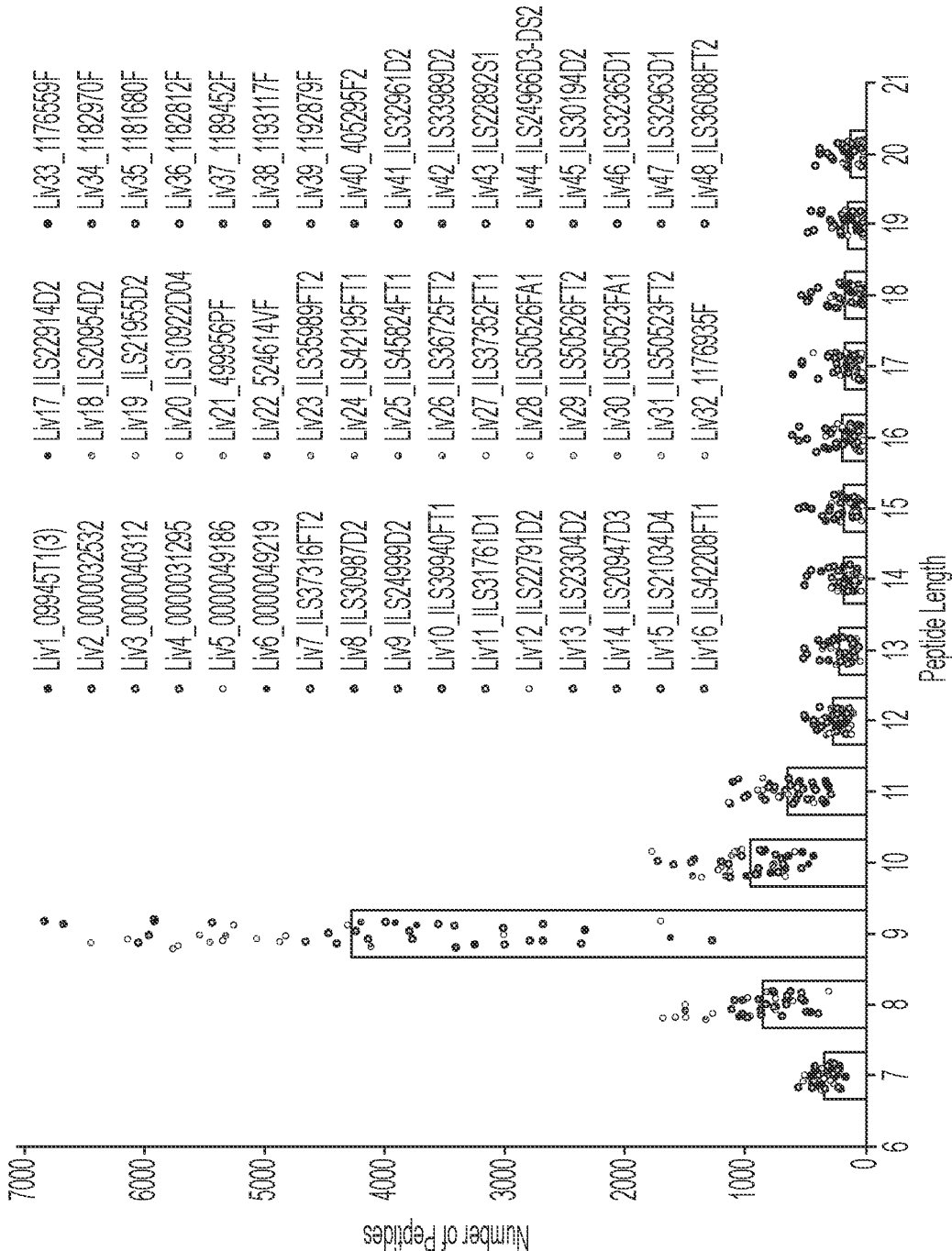


FIG. 1D



- Liv1_09945T1(3)
- Liv2_0000032532
- Liv3_0000040312
- Liv4_0000031295
- Liv5_0000049186
- Liv6_0000049219
- Liv7_ILS37316FT2
- Liv8_ILS30987D2
- Liv9_ILS24999D2
- Liv10_ILS39940FT1
- Liv11_ILS31761D1
- Liv12_ILS22791D2
- Liv13_ILS23304D2
- Liv14_ILS20947D3
- Liv15_ILS21034D4
- Liv16_ILS42208FT1
- Liv17_ILS22914D2
- Liv18_ILS20954D2
- Liv19_ILS21955D2
- Liv20_ILS10922D04
- Liv21_499956PF
- Liv22_524614VF
- Liv23_ILS35989FT2
- Liv24_ILS42195FT1
- Liv25_ILS45824FT1
- Liv26_ILS36725FT2
- Liv27_ILS37352FT1
- Liv28_ILS50526FA1
- Liv29_ILS50526FT2
- Liv30_ILS50523FA1
- Liv31_ILS50523FT2
- Liv32_1176935F
- Liv33_1176559F
- Liv34_1182970F
- Liv35_1181680F
- Liv36_1182812F
- Liv37_1189452F
- Liv38_1193117F
- Liv39_1192879F
- Liv40_405295F2
- Liv41_ILS32961D2
- Liv42_ILS33989D2
- Liv43_ILS22892S1
- Liv44_ILS24966D3-DS2
- Liv45_ILS30194D2
- Liv46_ILS32365D1
- Liv47_ILS32963D1
- Liv48_ILS36088FT2

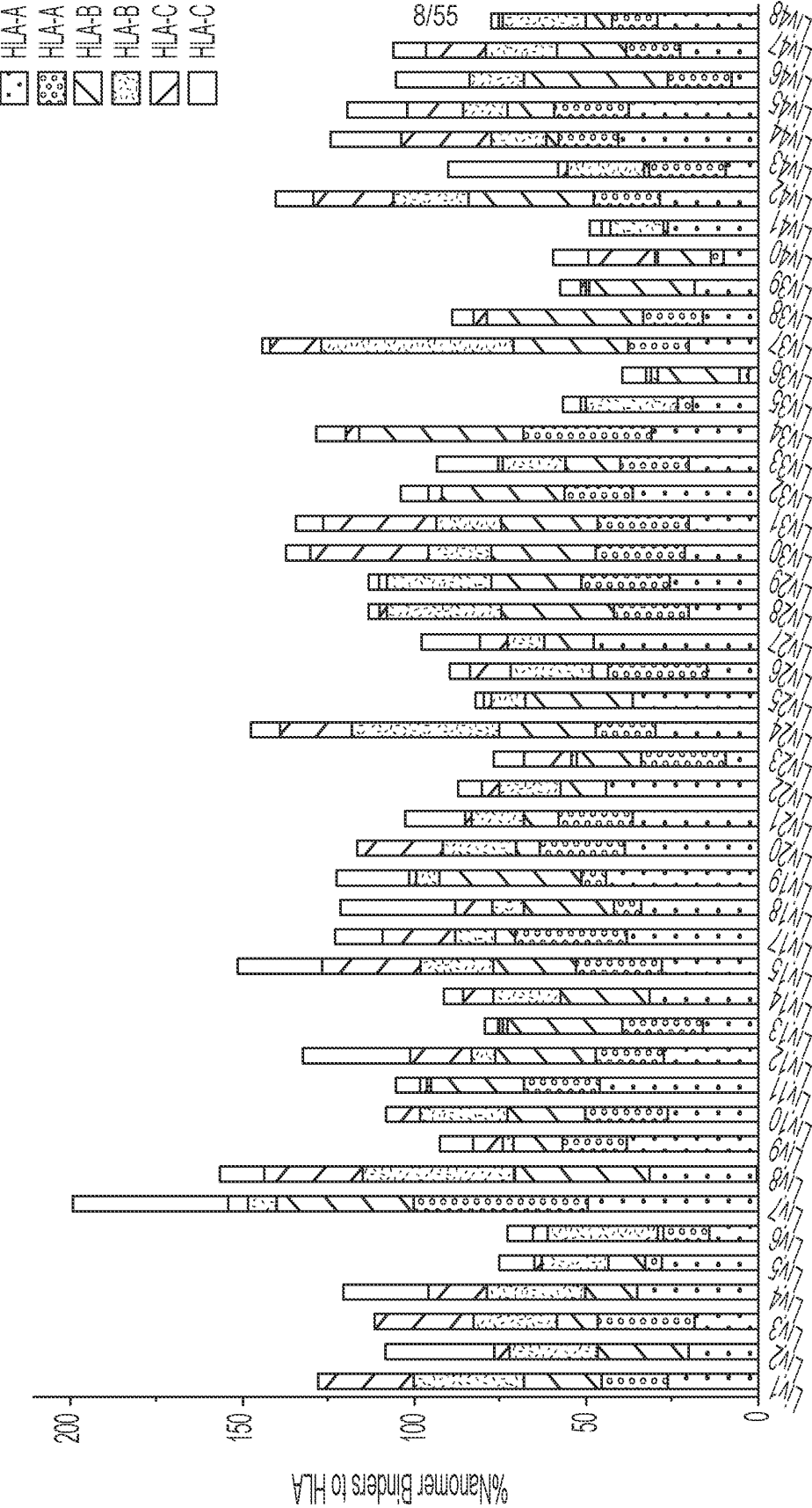


FIG. 2B

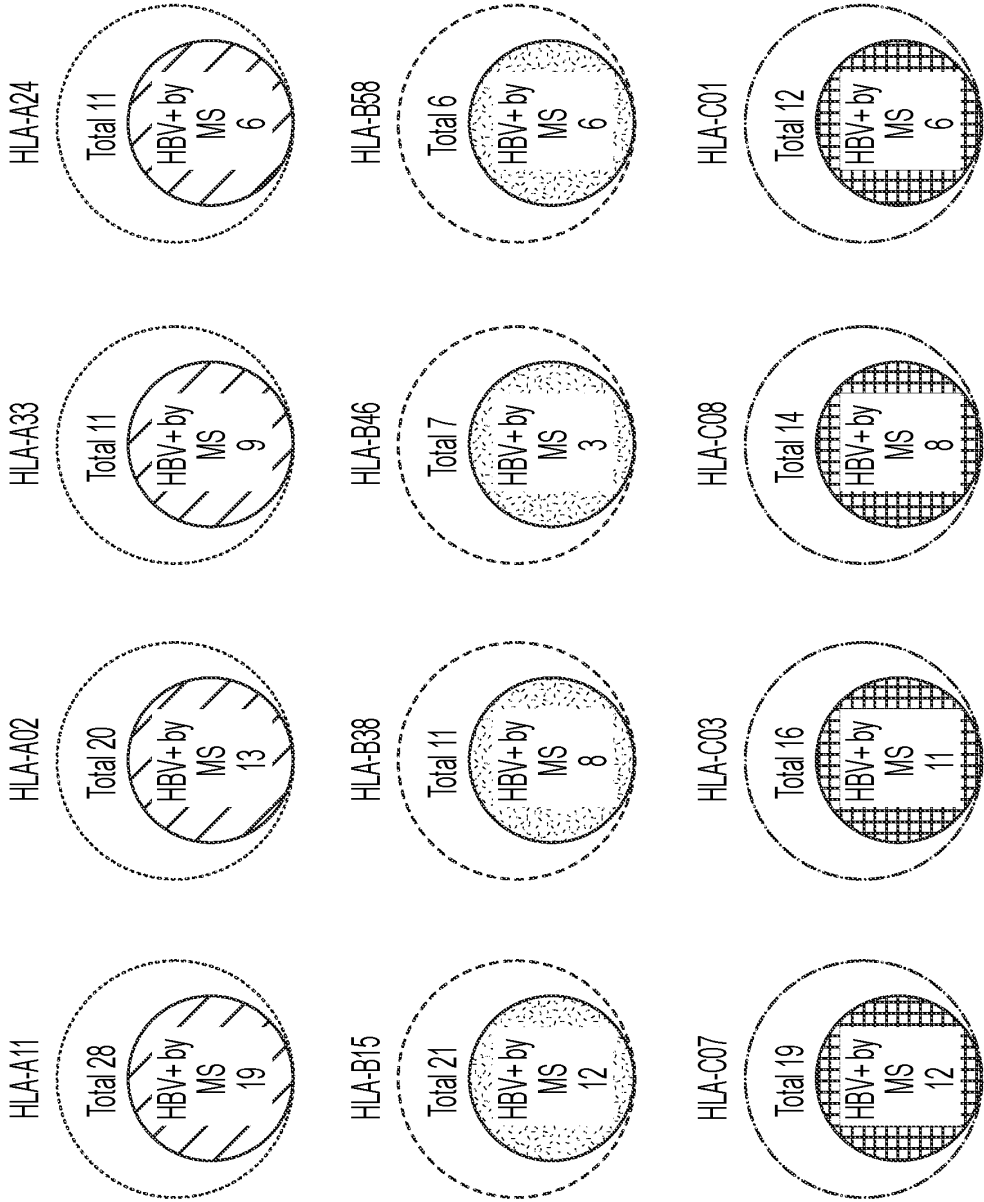


FIG. 3A

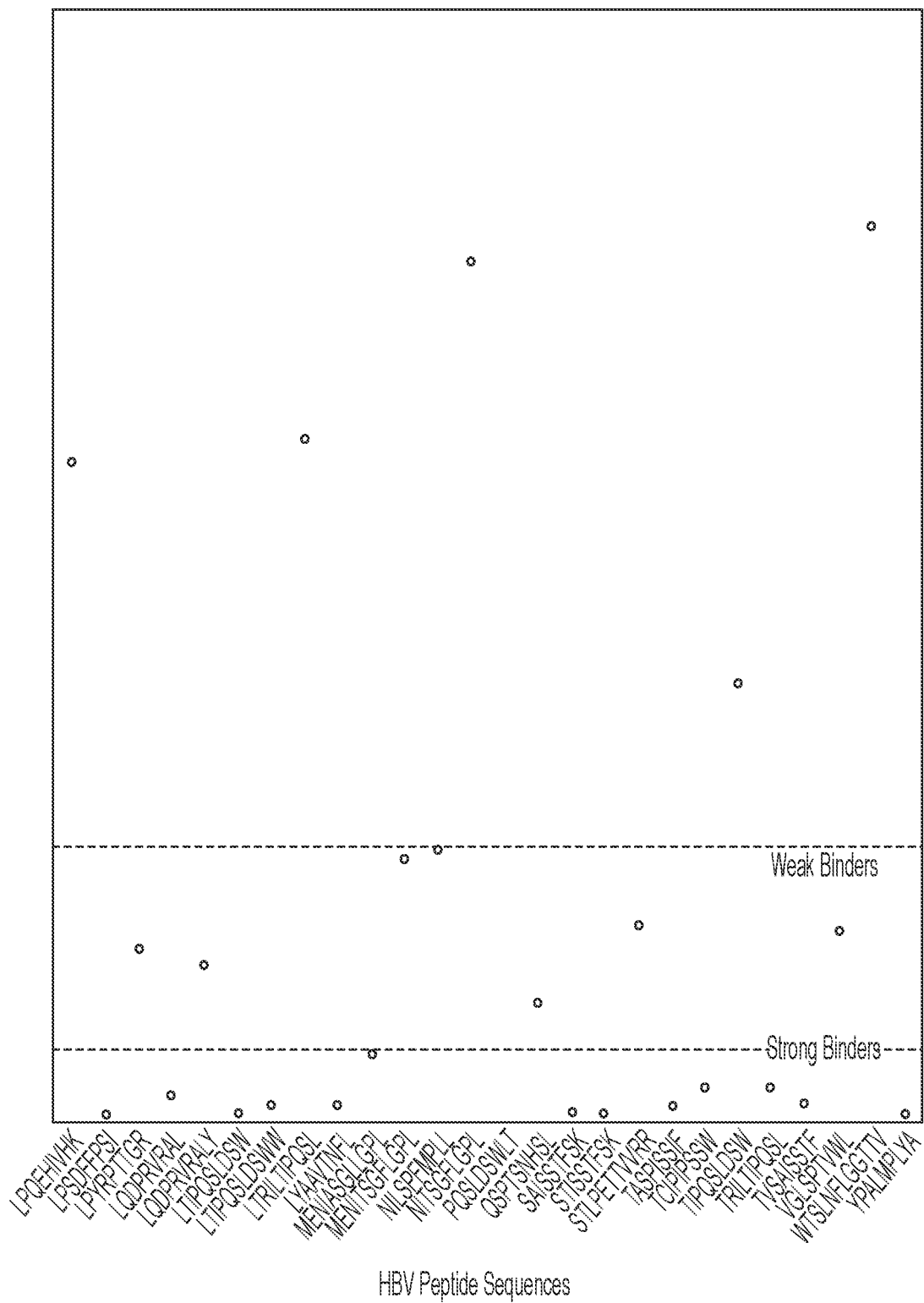
NetMHCpan 4.0 %Rank

HBV Peptide Sequences

HBV Peptide Sequence	NetMHCpan 4.0 %Rank
ASREIWSV	0.2
ENITSGFLGP	7.6
FLITRLTI	0.1
FSLTKILTIQ	0.0
FSLTKILTIQS	0.0
FIGLSPTVW	0.4
FVGLSPTVW	0.0
GLSPTVWL	1.4
GMLPTVWLSV	0.3
GMLPTVCPIL	0.4
GSLPQEHLL	0.3
GSLPQEHLLQ	0.5
GSLPQEHLLQK	0.5
GLPQEHLLQK	0.2
GLPQEHLLQK	0.3
GLPQEHLLQK	0.4
GLPQEHLLQK	0.5
GLPQEHLLQK	0.6
GLPQEHLLQK	0.7
GLPQEHLLQK	0.8
GLPQEHLLQK	0.9
GLPQEHLLQK	1.0
GLPQEHLLQK	1.1
GLPQEHLLQK	1.2
GLPQEHLLQK	1.3
GLPQEHLLQK	1.4
GLPQEHLLQK	1.5
GLPQEHLLQK	1.6
GLPQEHLLQK	1.7
GLPQEHLLQK	1.8
GLPQEHLLQK	1.9
GLPQEHLLQK	2.0
GLPQEHLLQK	2.1
GLPQEHLLQK	2.2
GLPQEHLLQK	2.3
GLPQEHLLQK	2.4
GLPQEHLLQK	2.5
GLPQEHLLQK	2.6
GLPQEHLLQK	2.7
GLPQEHLLQK	2.8
GLPQEHLLQK	2.9
GLPQEHLLQK	3.0
GLPQEHLLQK	3.1
GLPQEHLLQK	3.2
GLPQEHLLQK	3.3
GLPQEHLLQK	3.4
GLPQEHLLQK	3.5
GLPQEHLLQK	3.6
GLPQEHLLQK	3.7
GLPQEHLLQK	3.8
GLPQEHLLQK	3.9
GLPQEHLLQK	4.0
GLPQEHLLQK	4.1
GLPQEHLLQK	4.2
GLPQEHLLQK	4.3
GLPQEHLLQK	4.4
GLPQEHLLQK	4.5
GLPQEHLLQK	4.6
GLPQEHLLQK	4.7
GLPQEHLLQK	4.8
GLPQEHLLQK	4.9
GLPQEHLLQK	5.0
GLPQEHLLQK	5.1
GLPQEHLLQK	5.2
GLPQEHLLQK	5.3
GLPQEHLLQK	5.4
GLPQEHLLQK	5.5
GLPQEHLLQK	5.6
GLPQEHLLQK	5.7
GLPQEHLLQK	5.8
GLPQEHLLQK	5.9
GLPQEHLLQK	6.0
GLPQEHLLQK	6.1
GLPQEHLLQK	6.2
GLPQEHLLQK	6.3
GLPQEHLLQK	6.4
GLPQEHLLQK	6.5
GLPQEHLLQK	6.6
GLPQEHLLQK	6.7
GLPQEHLLQK	6.8
GLPQEHLLQK	6.9
GLPQEHLLQK	7.0
GLPQEHLLQK	7.1
GLPQEHLLQK	7.2
GLPQEHLLQK	7.3
GLPQEHLLQK	7.4
GLPQEHLLQK	7.5
GLPQEHLLQK	7.6
GLPQEHLLQK	7.7
GLPQEHLLQK	7.8
GLPQEHLLQK	7.9
GLPQEHLLQK	8.0

FIG. 3B

11/55

FIG. 3B
CONTINUED

Peptide	HLA	Total Samples	HBA+ Samples by RNA (including poor QC)	Number of Samples Peptide was Detected	Frequency
FLLRILT	HLA-A02	20	13	2	2/13
STLPETTVRR	HLA-A11	28	19	6	6/19
SAISSTFSK	HLA-A11	28	19	5	5/19
HBV-P0606-616	HLA-A11	28	19	14	14/19
GSLPQEHVQK					
GSLPQEHIIQK					
GTLPQEHIVHK					
GTLPQEHIVQK					

FIG. 3C

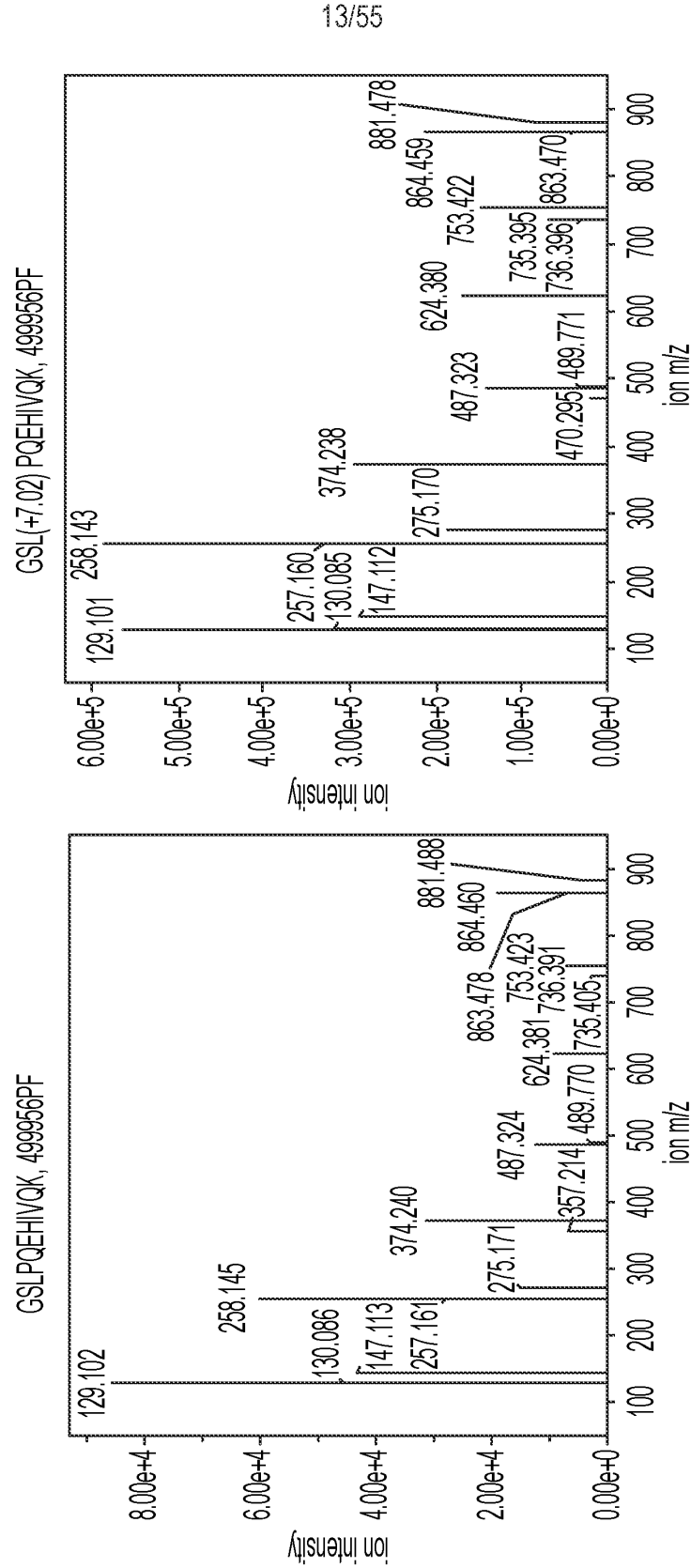


FIG. 4A

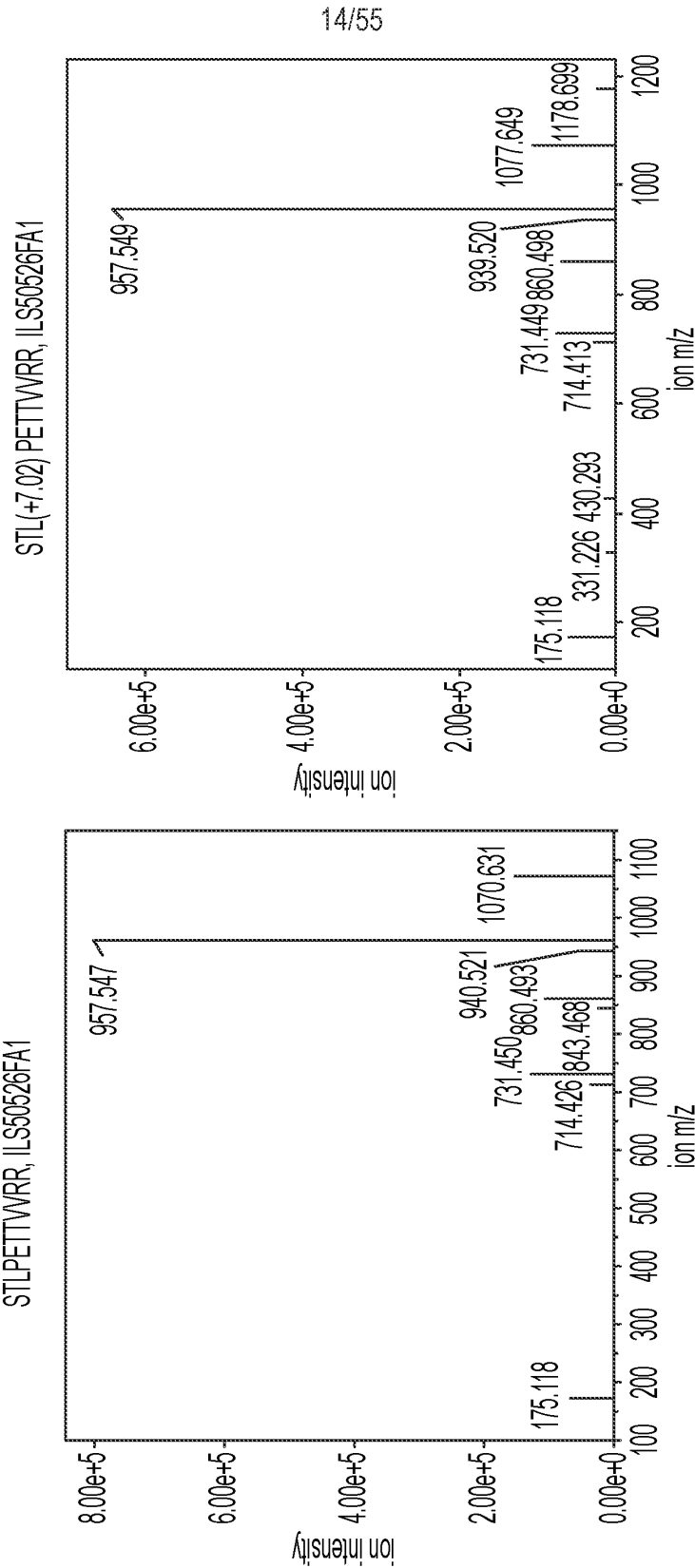


FIG. 4B

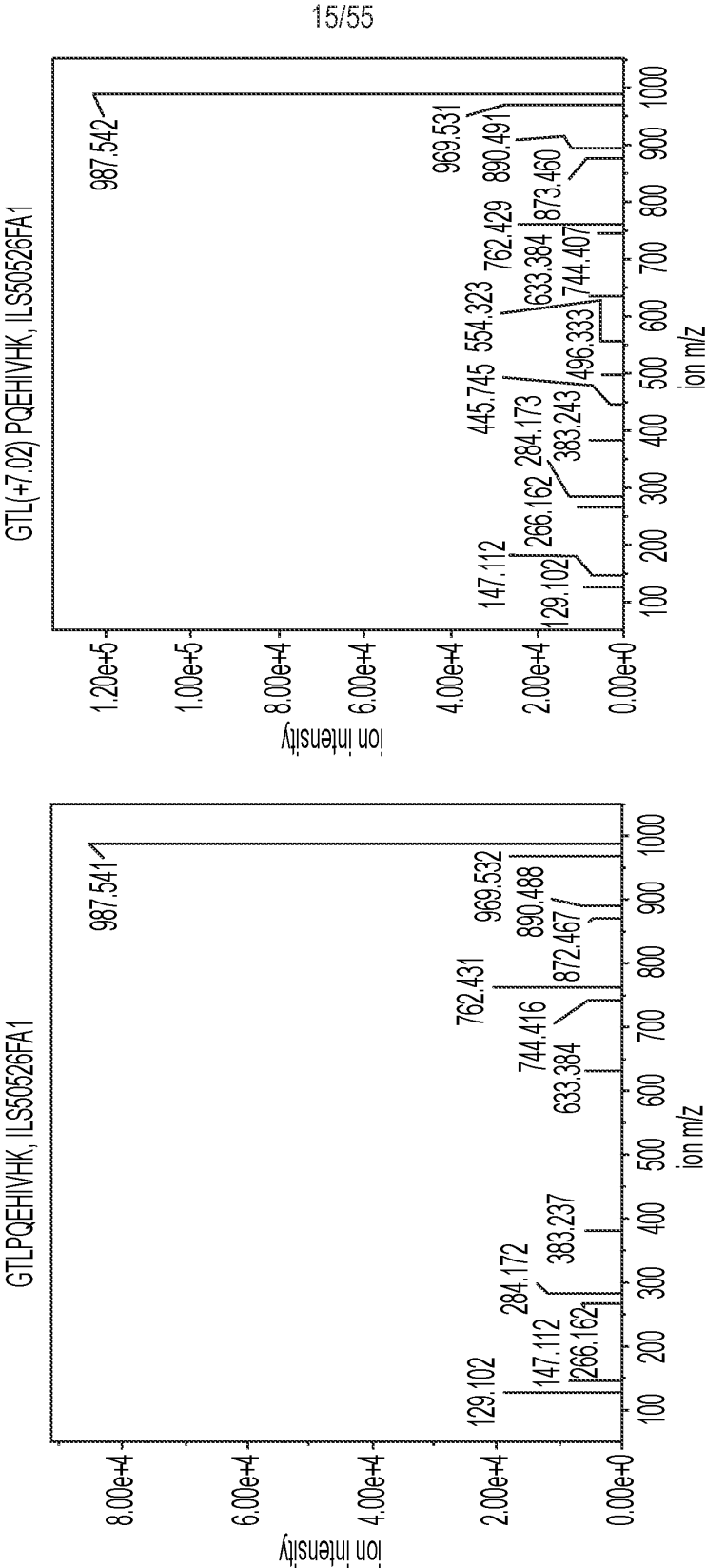


FIG. 4C

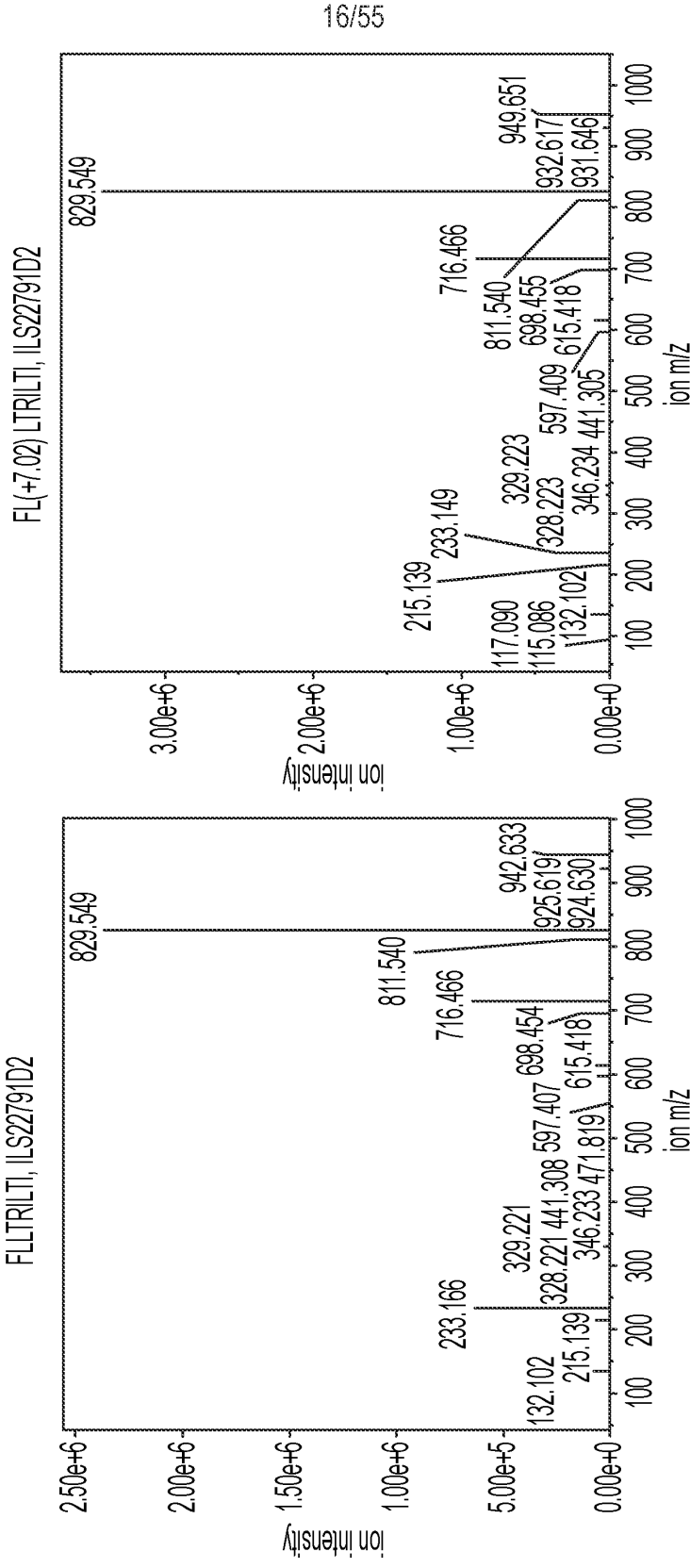


FIG. 4D

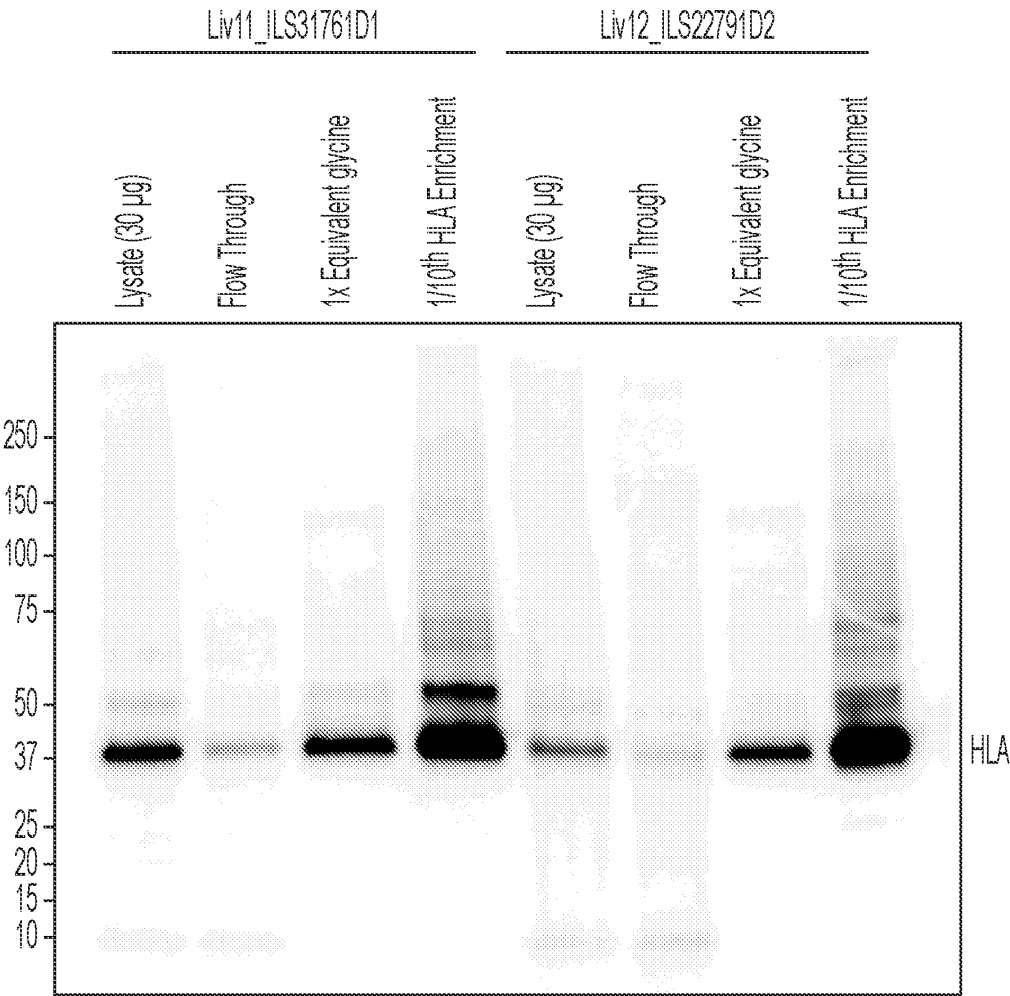


FIG. 5

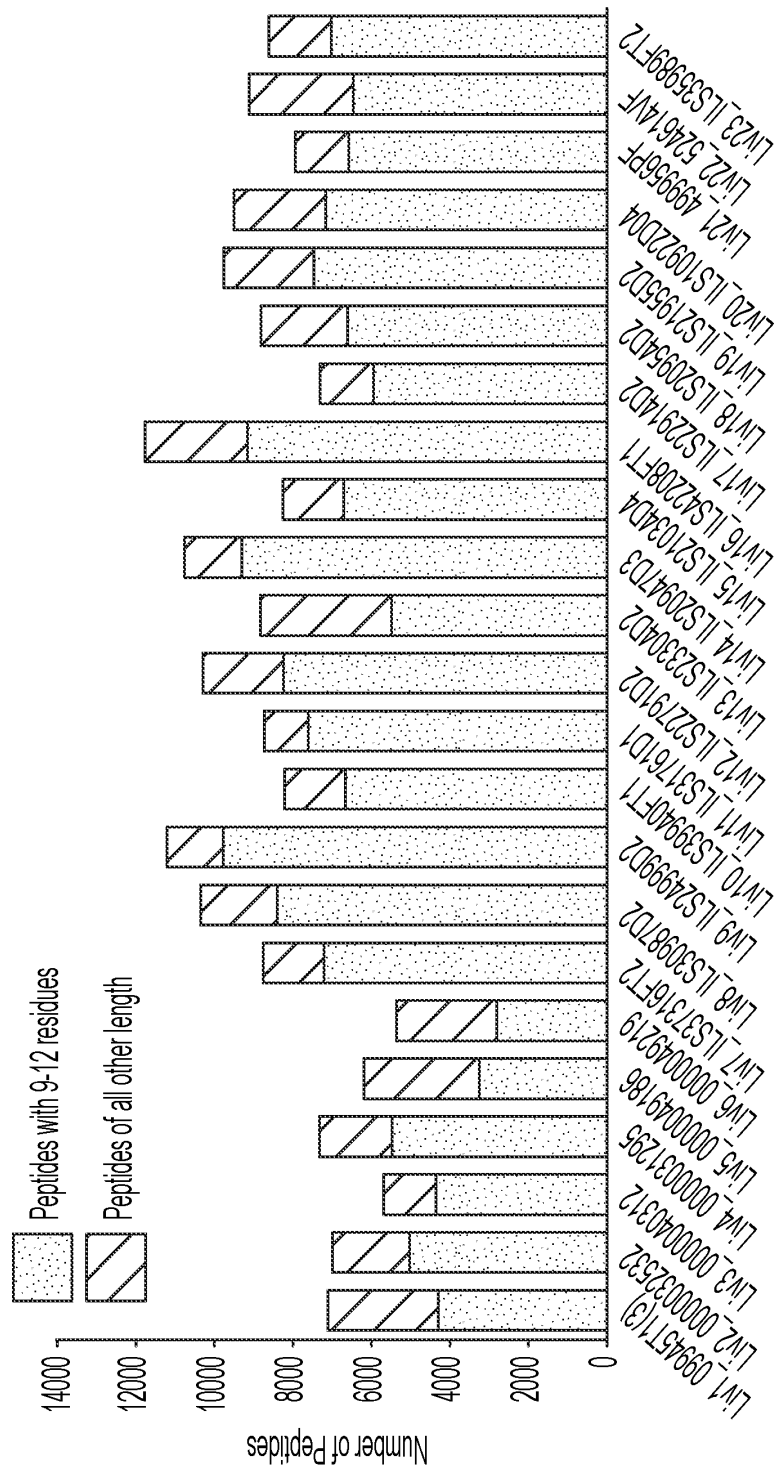


FIG. 6

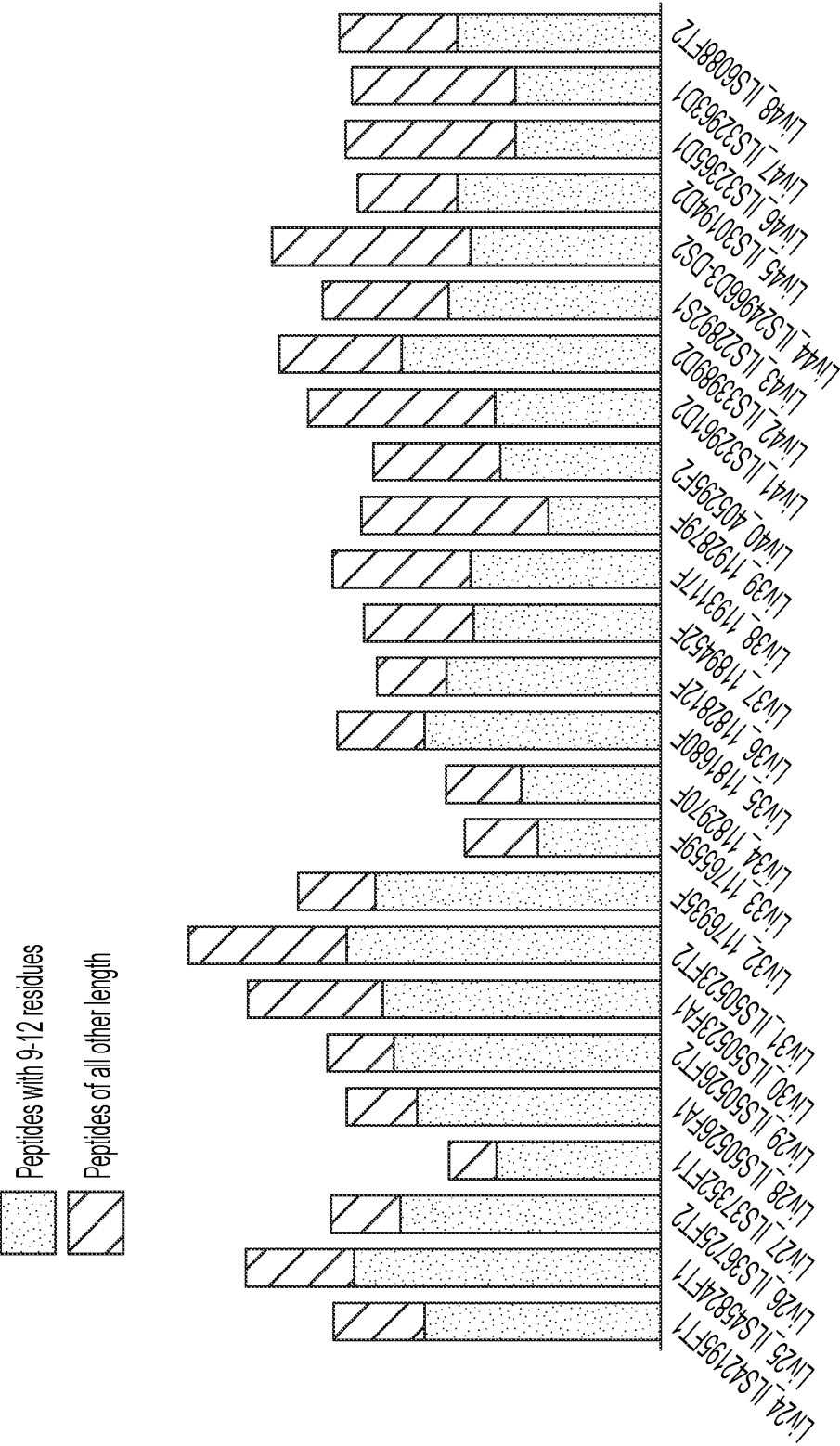


FIG. 6
CONTINUED

20/55

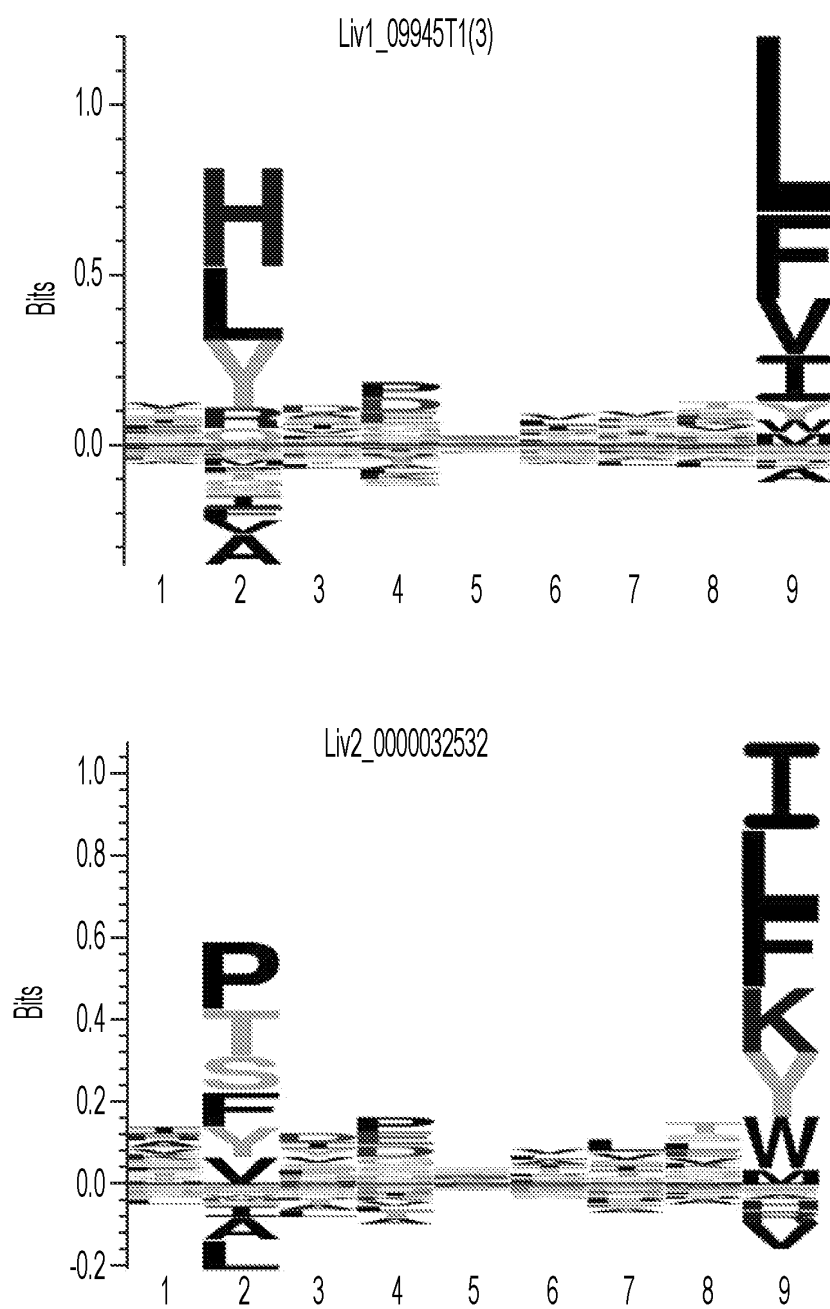


FIG. 7A

21/55

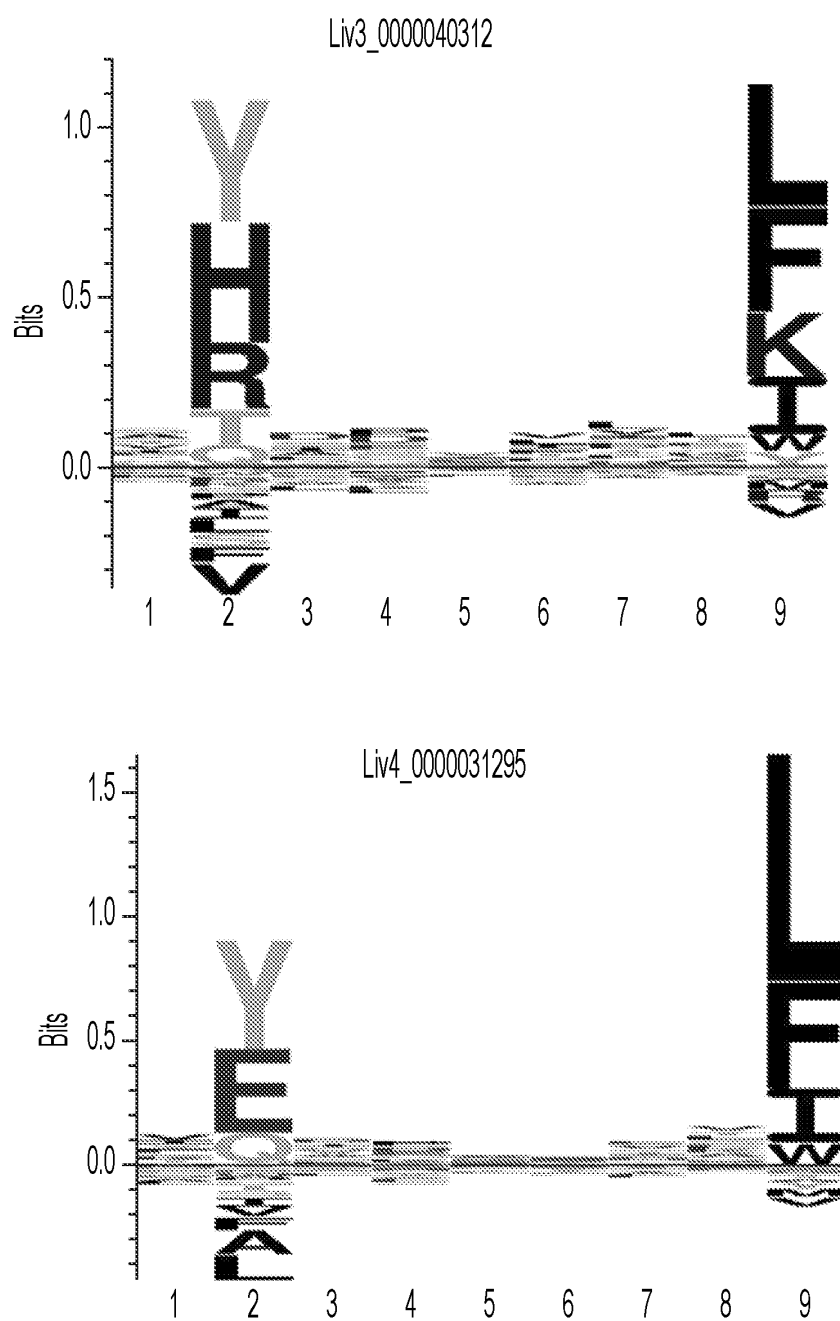


FIG. 7B

22/55

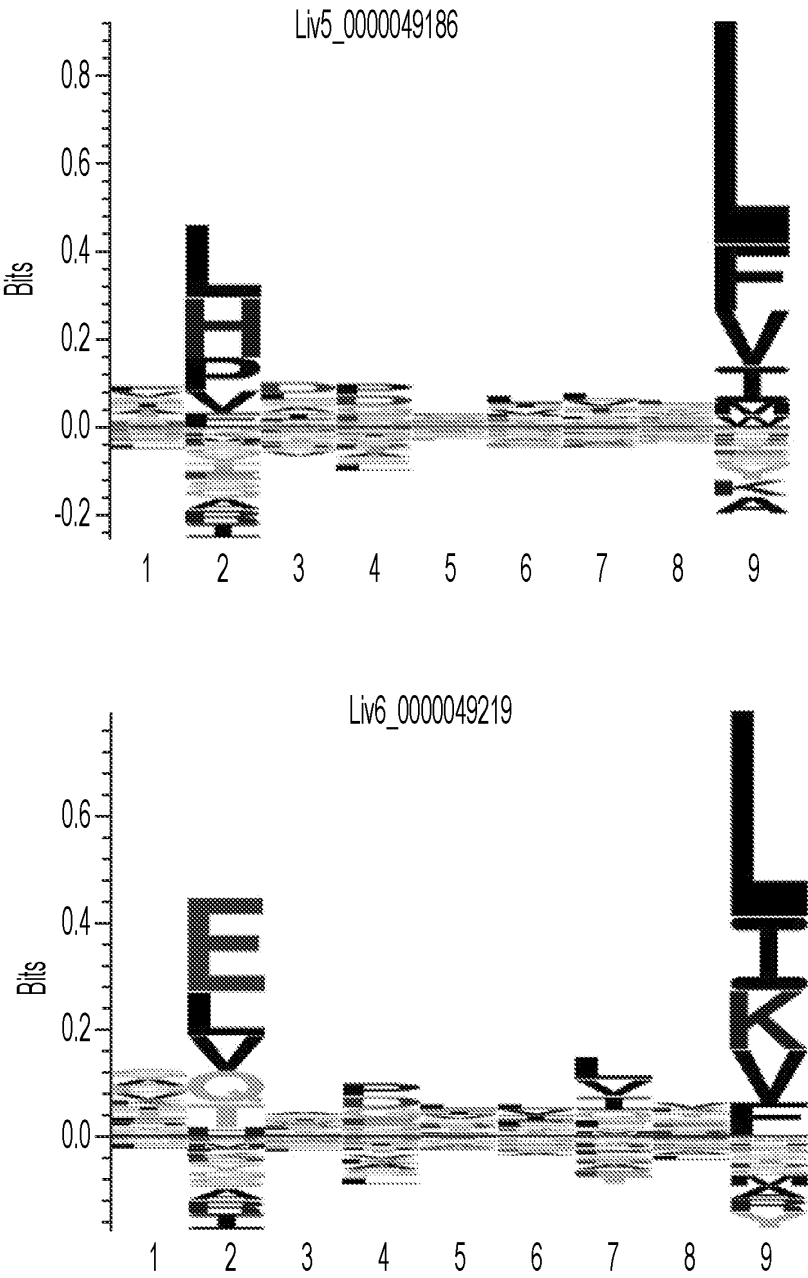


FIG. 7C

23/55

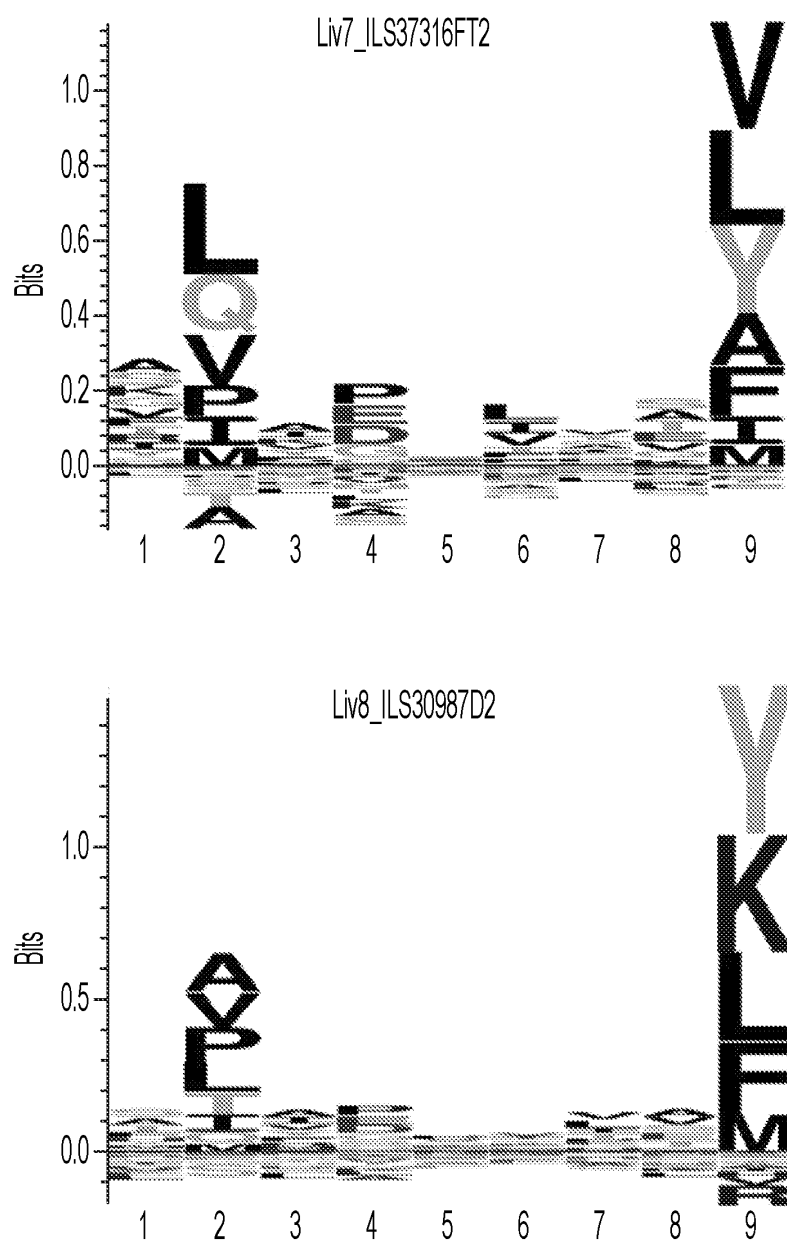


FIG. 7D

24/55

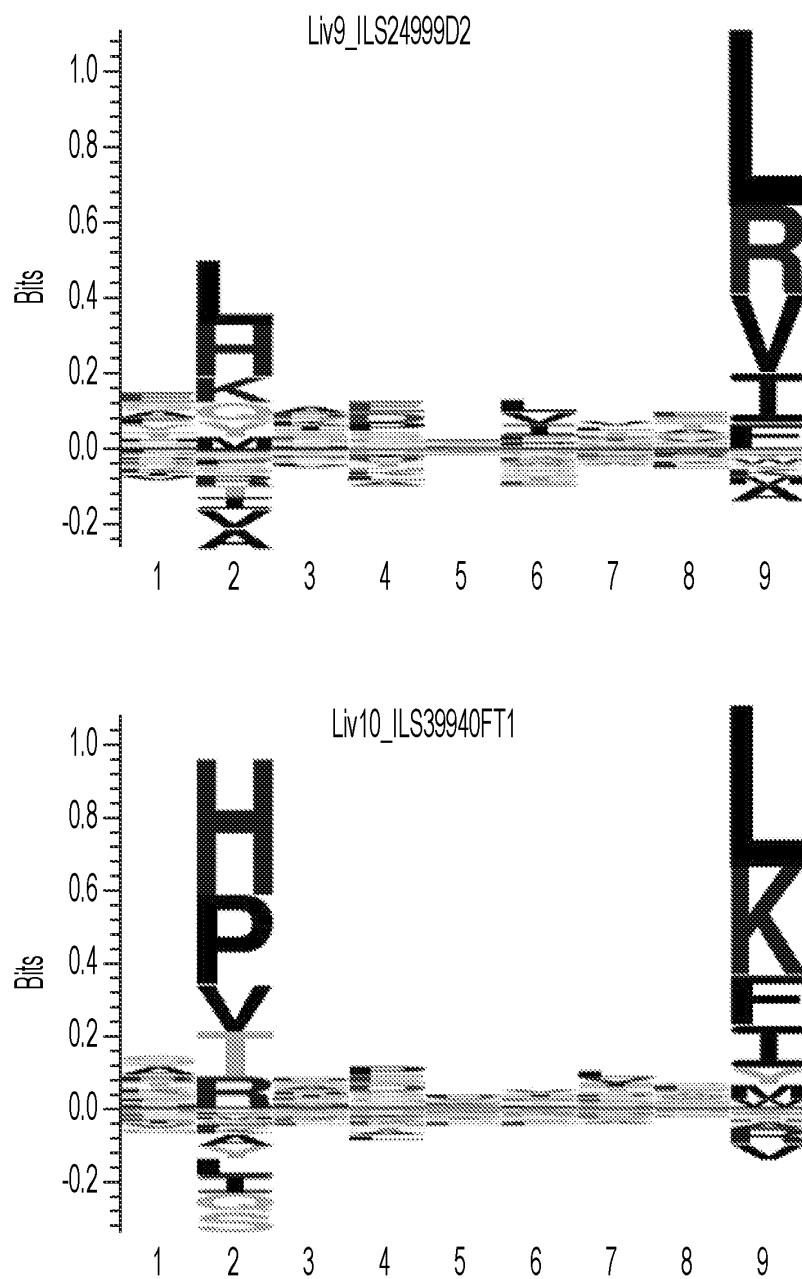


FIG. 7E

25/55

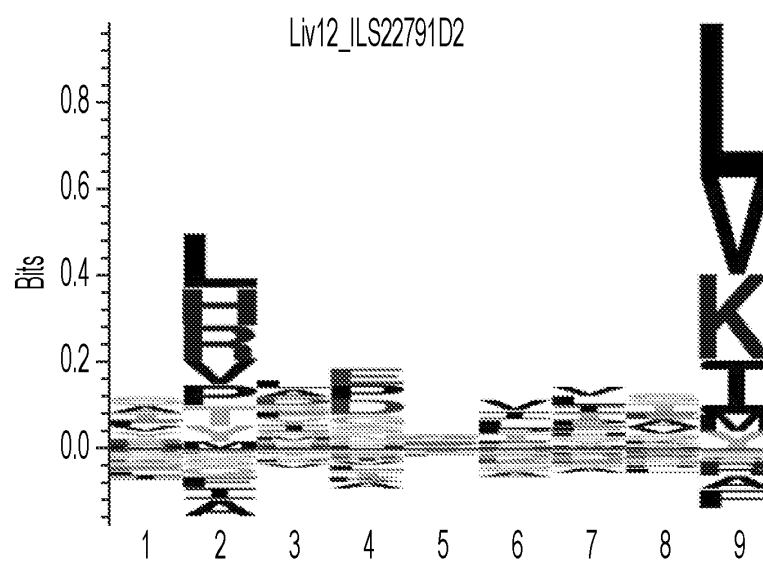
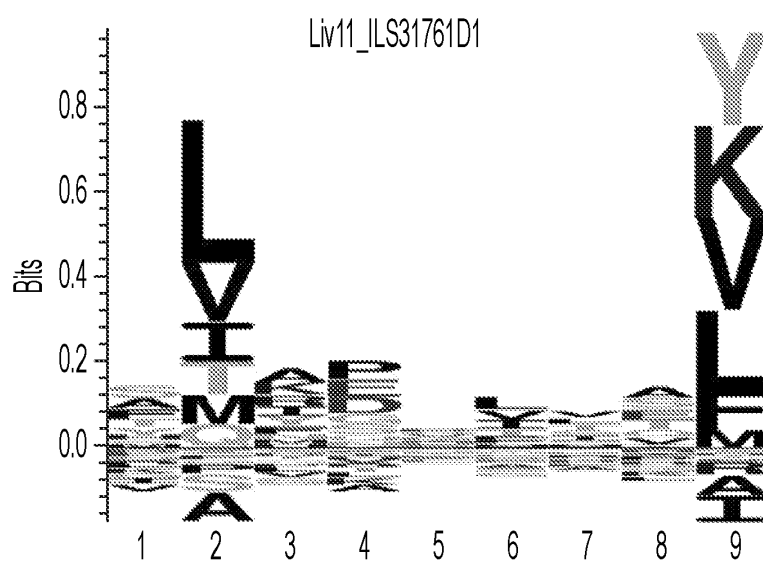


FIG. 7F

26/55

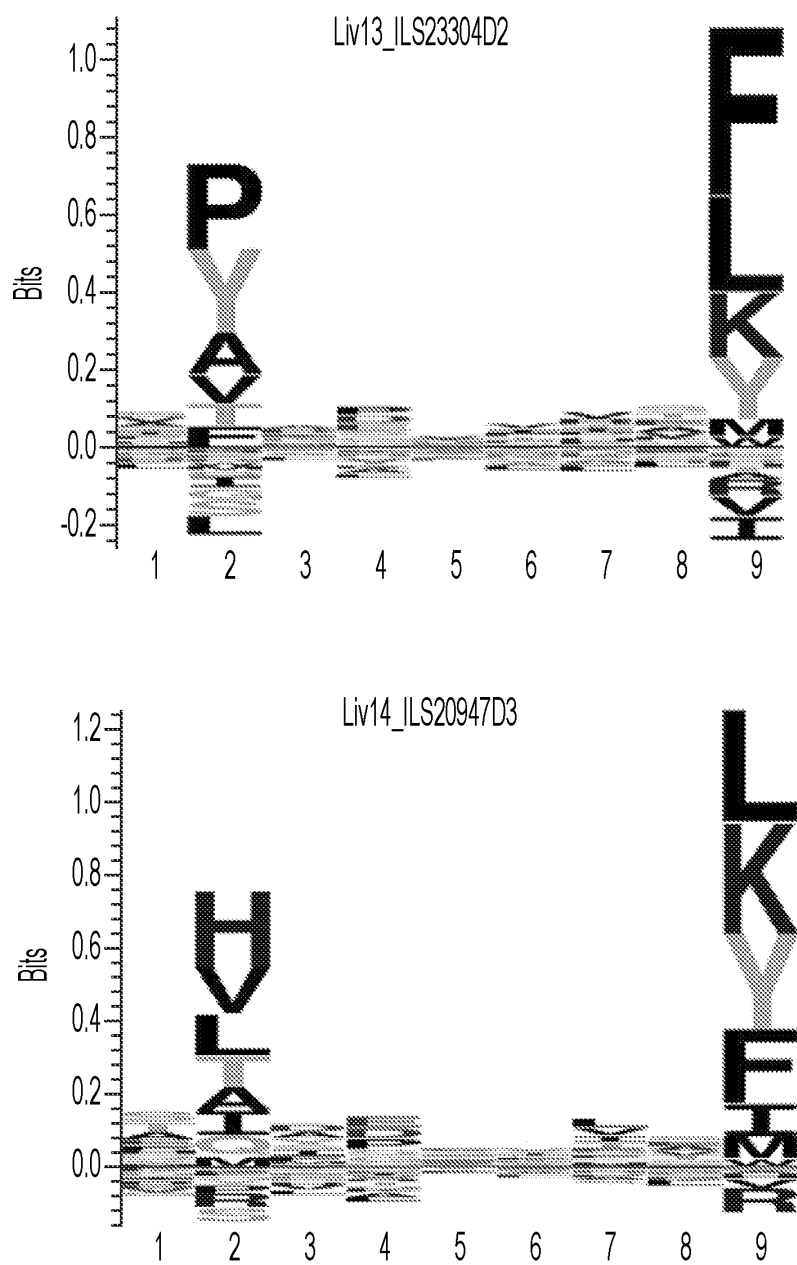


FIG. 7G

27/55

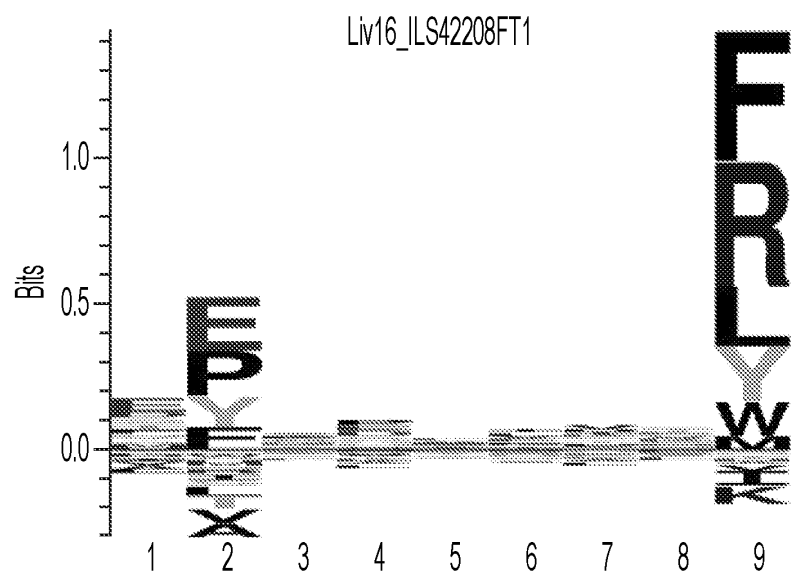
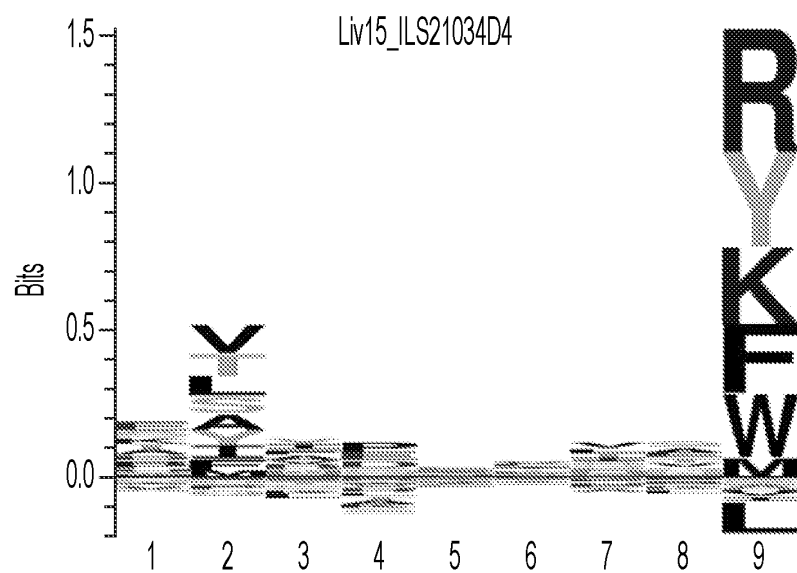
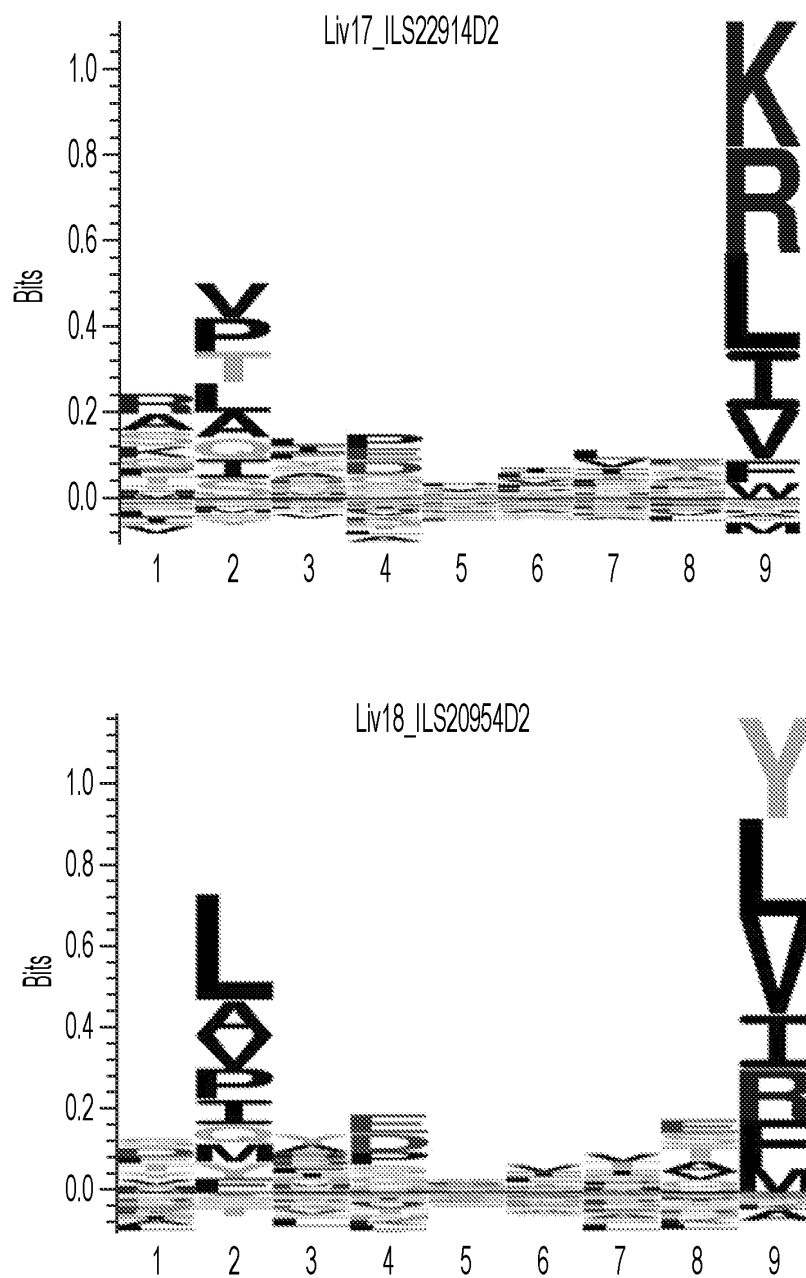


FIG. 7H

28/55



29/55

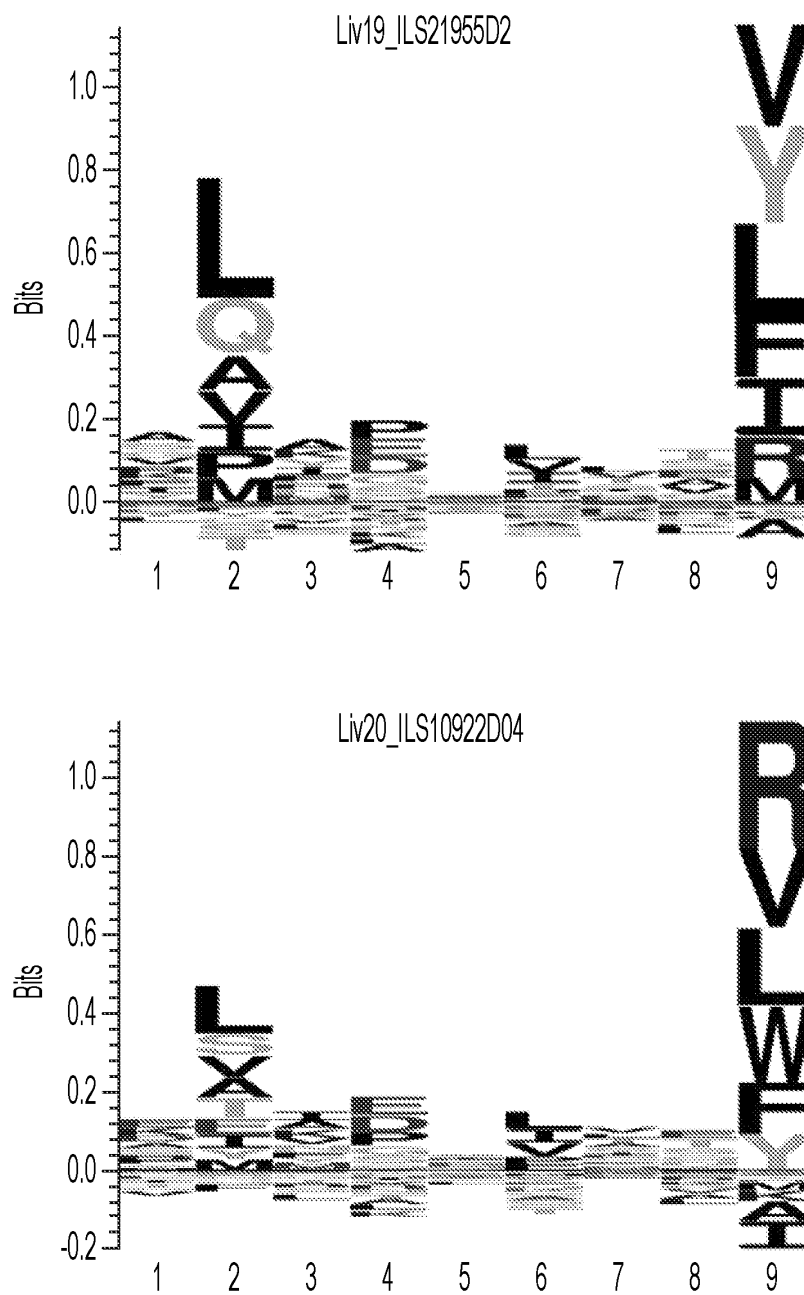


FIG. 7J

30/55

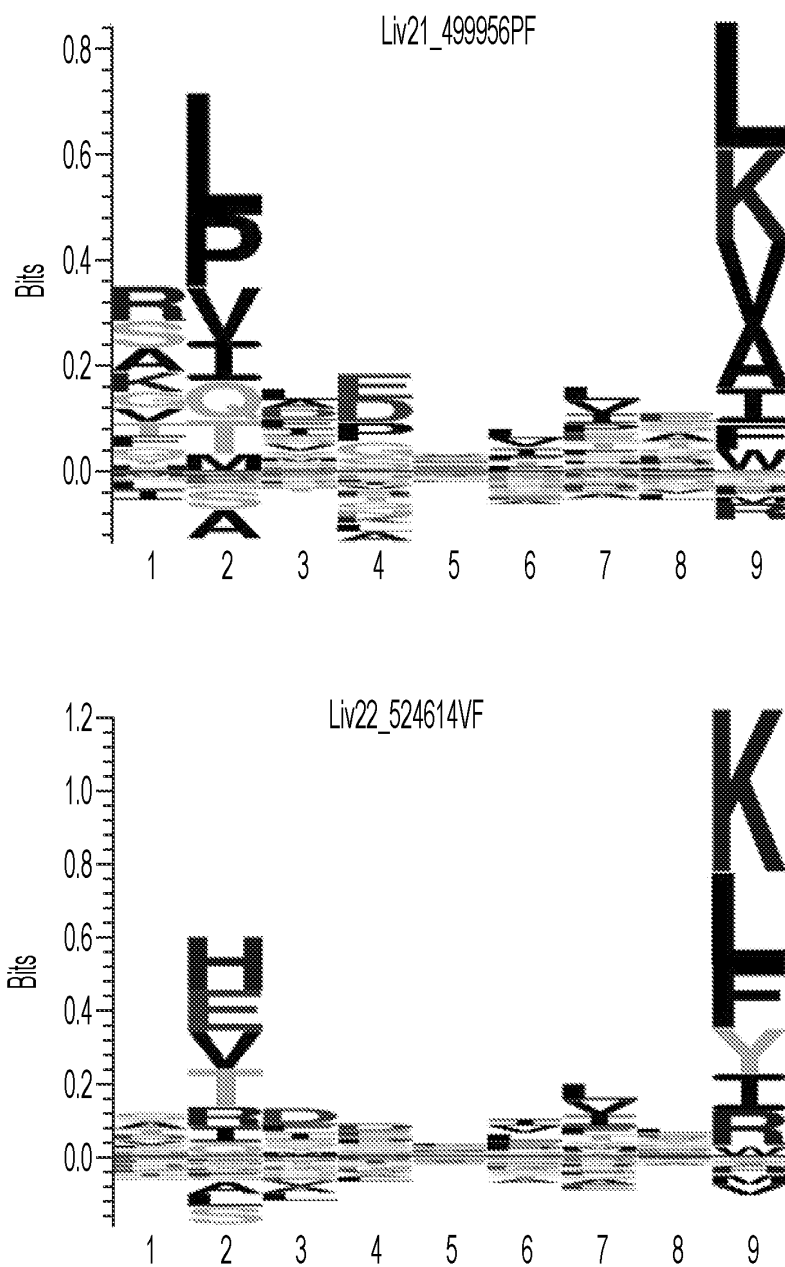


FIG. 7K

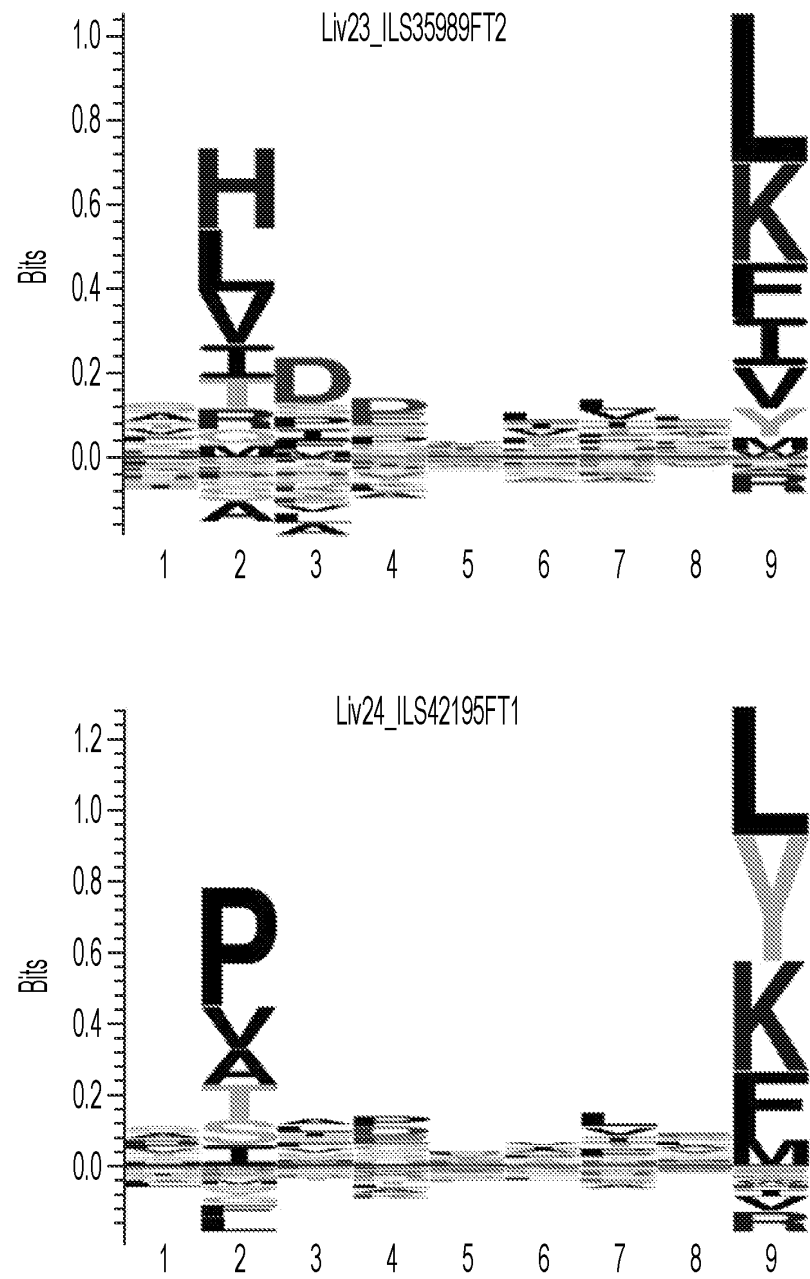


FIG. 7L

32/55

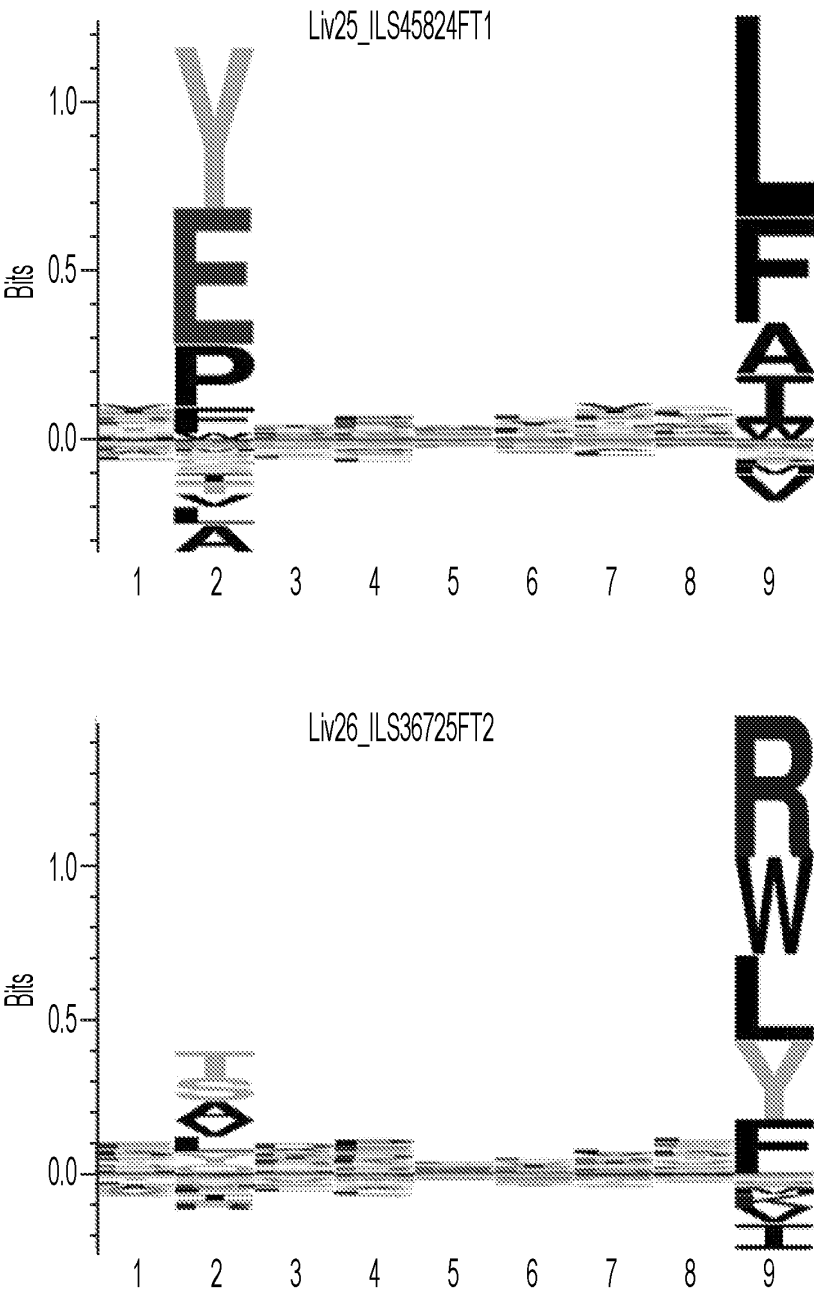


FIG. 7M

33/55

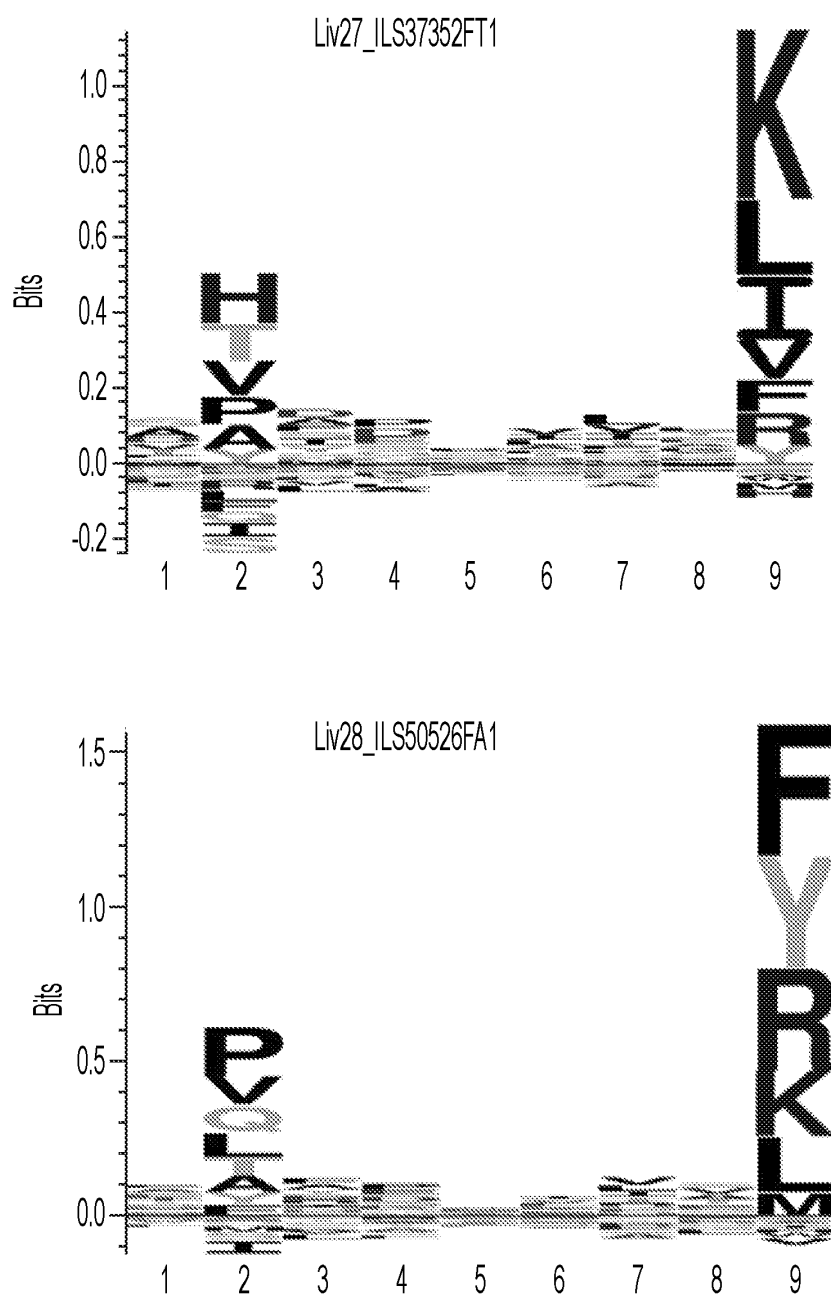


FIG. 7N

34/55

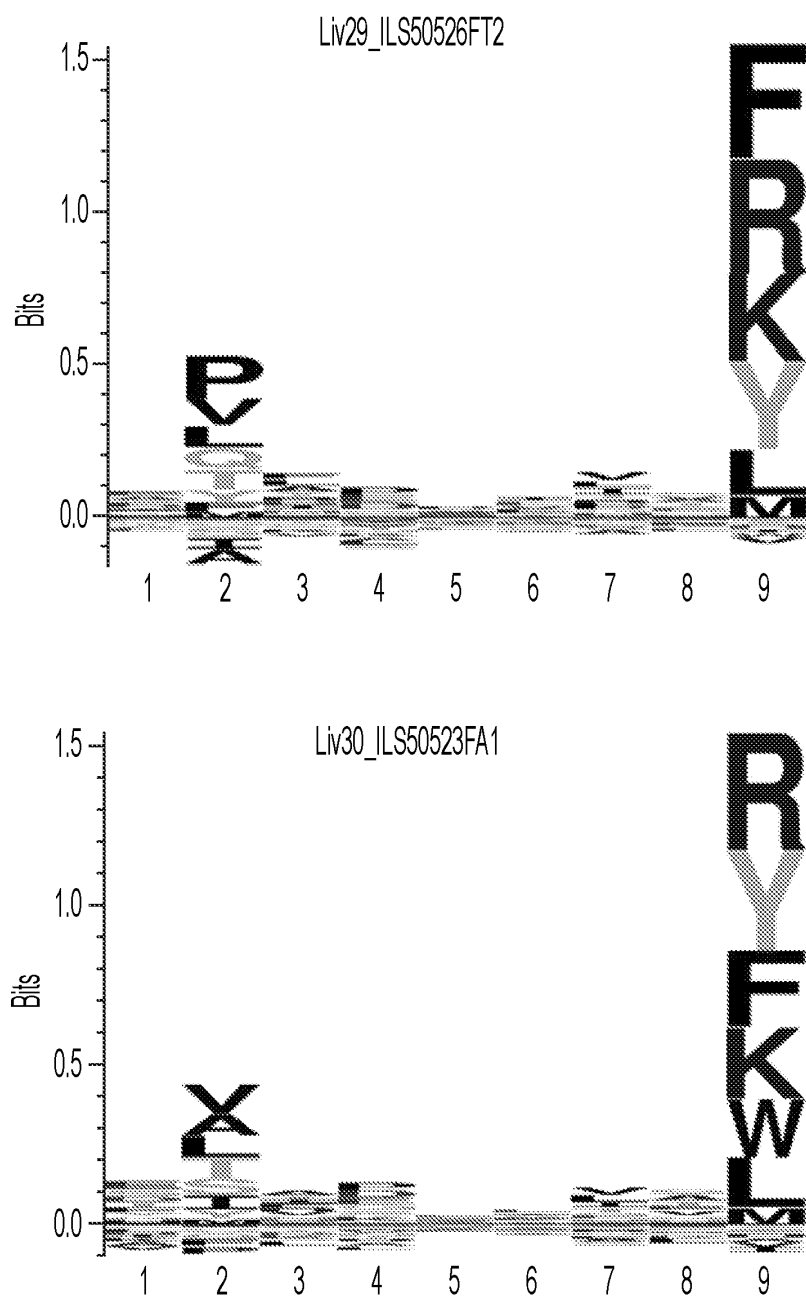


FIG. 70

35/55

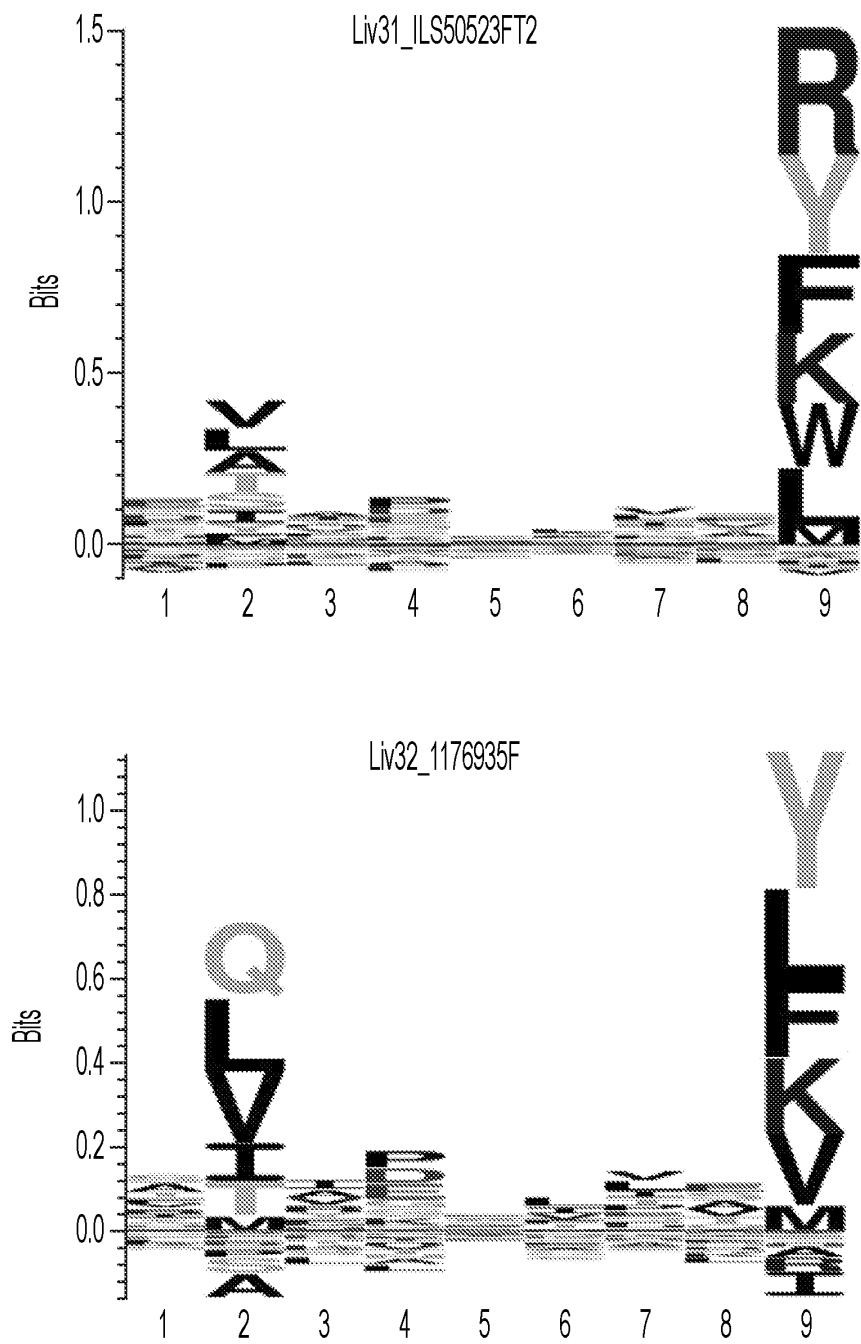


FIG. 7P

37/55

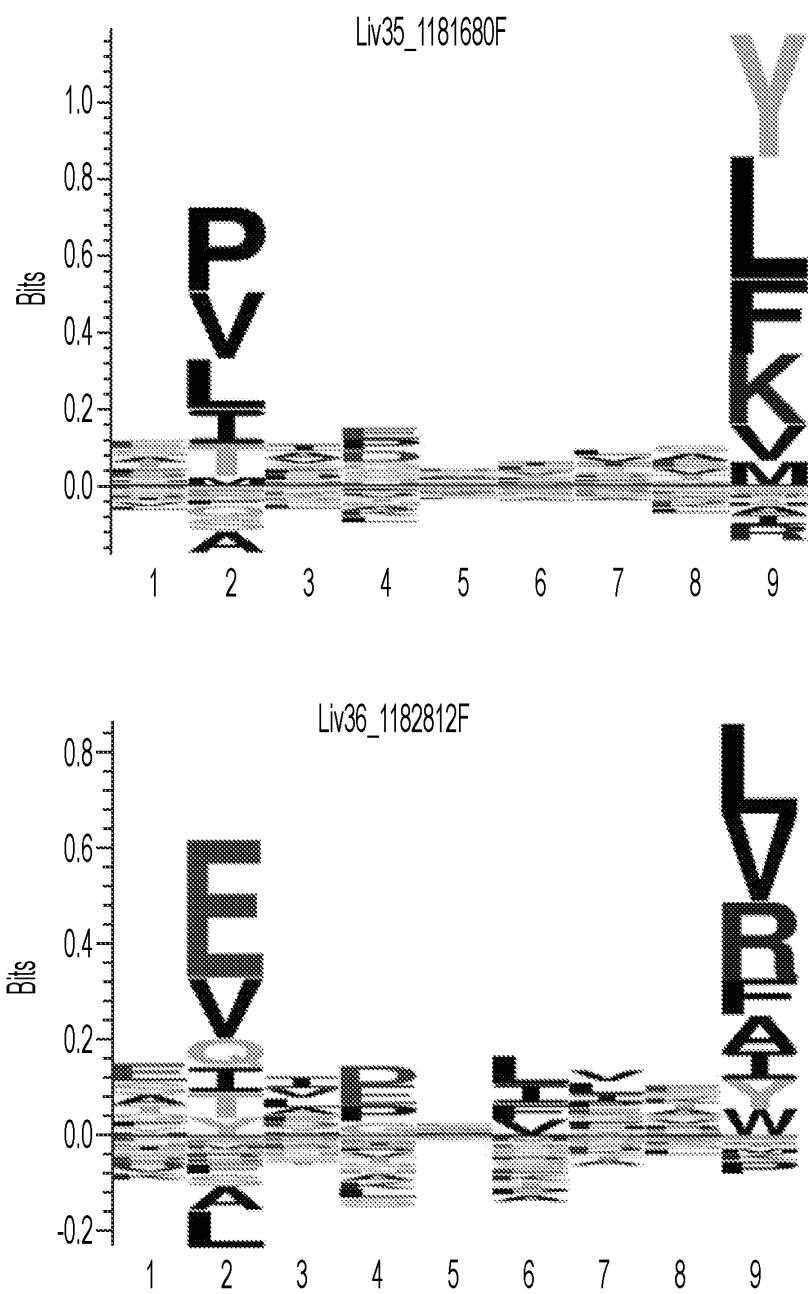


FIG. 7R

38/55

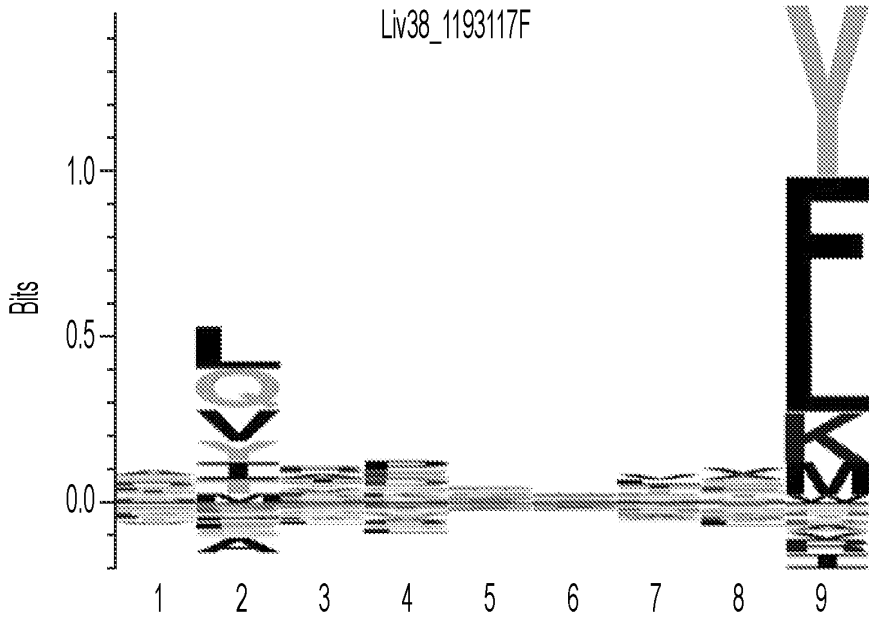
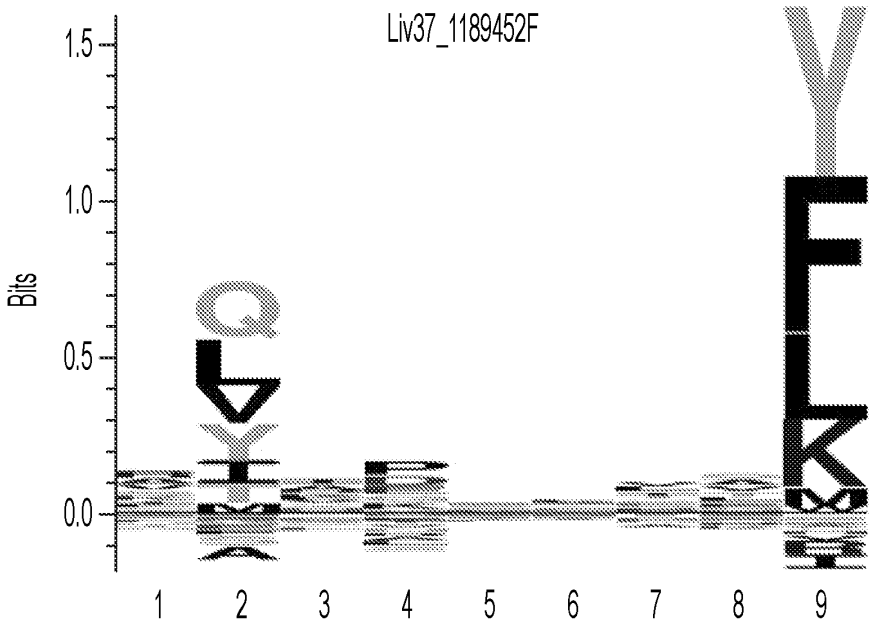


FIG. 7S

39/55

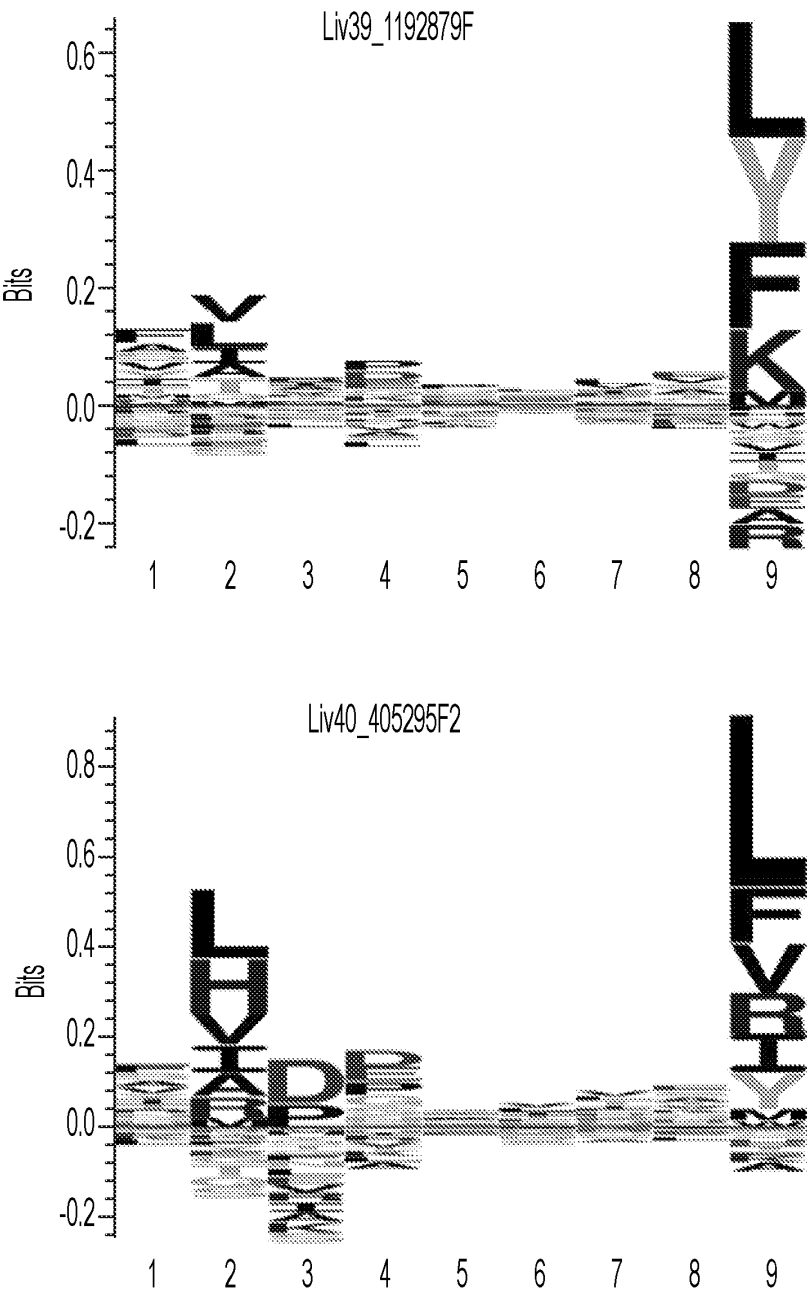


FIG. 7T

40/55

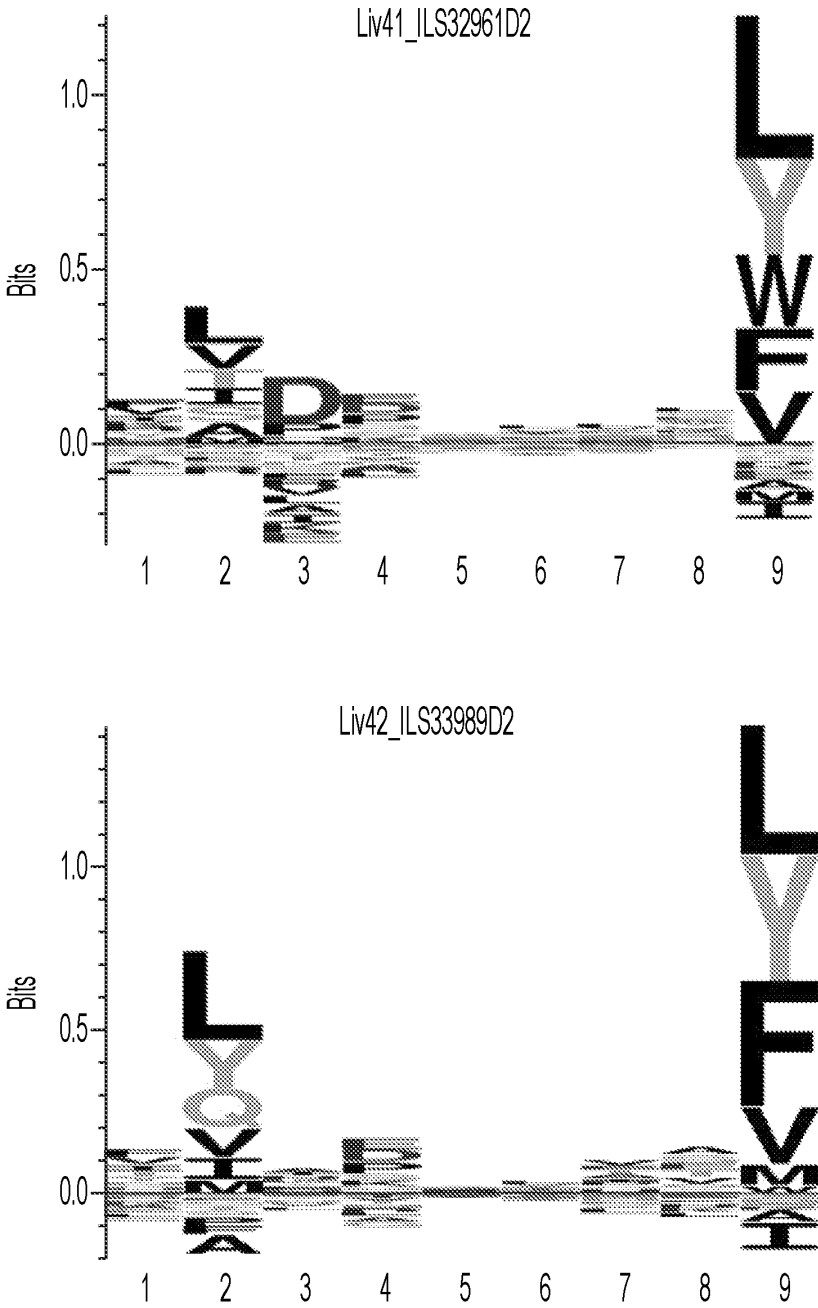


FIG. 7U

41/55

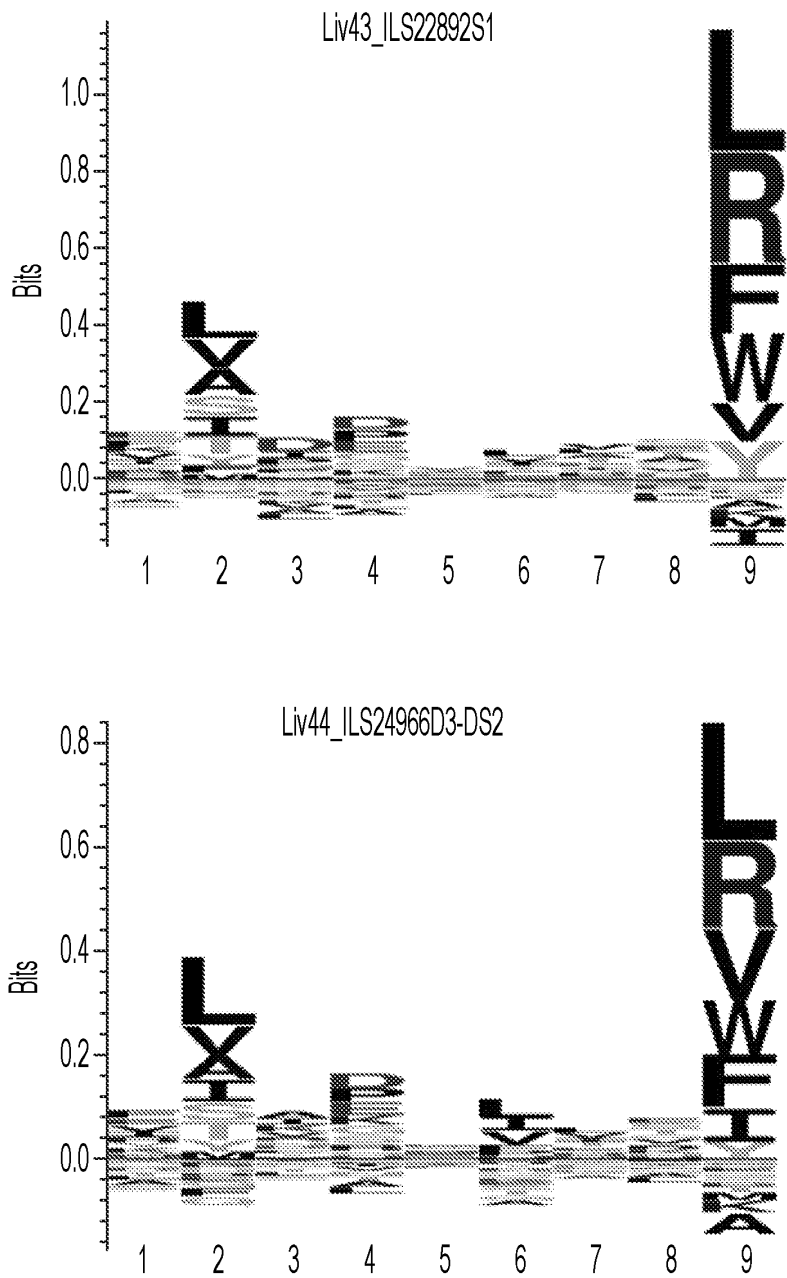


FIG. 7V

42/55

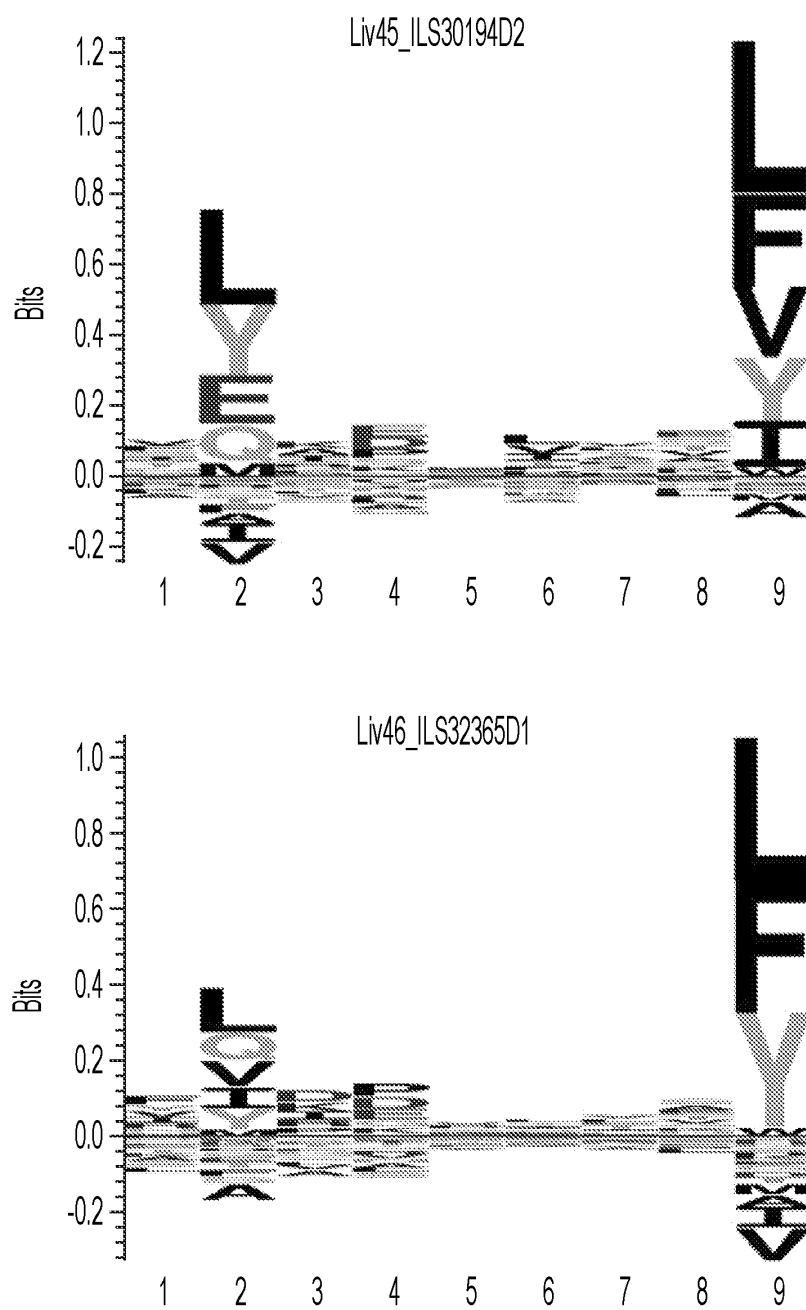


FIG. 7W

43/55

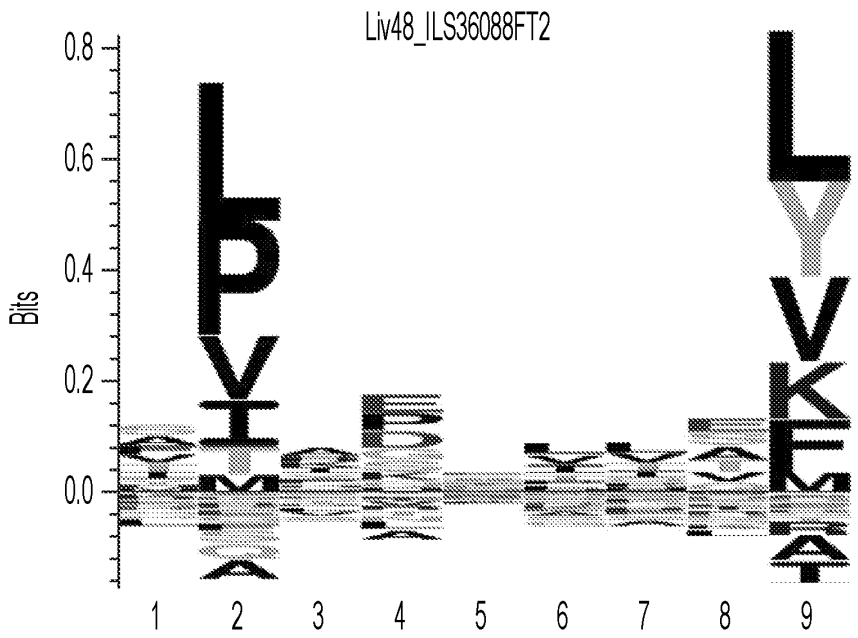
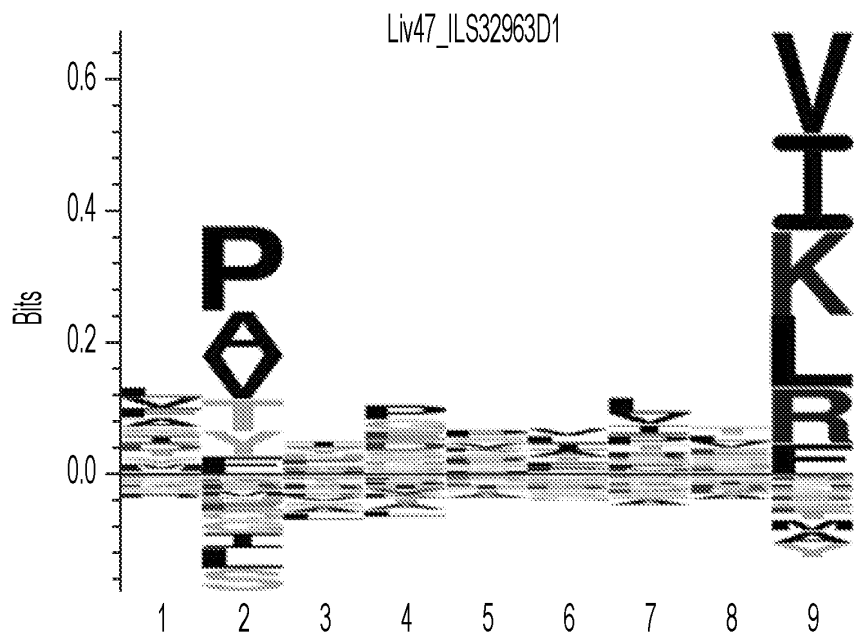


FIG. 7X

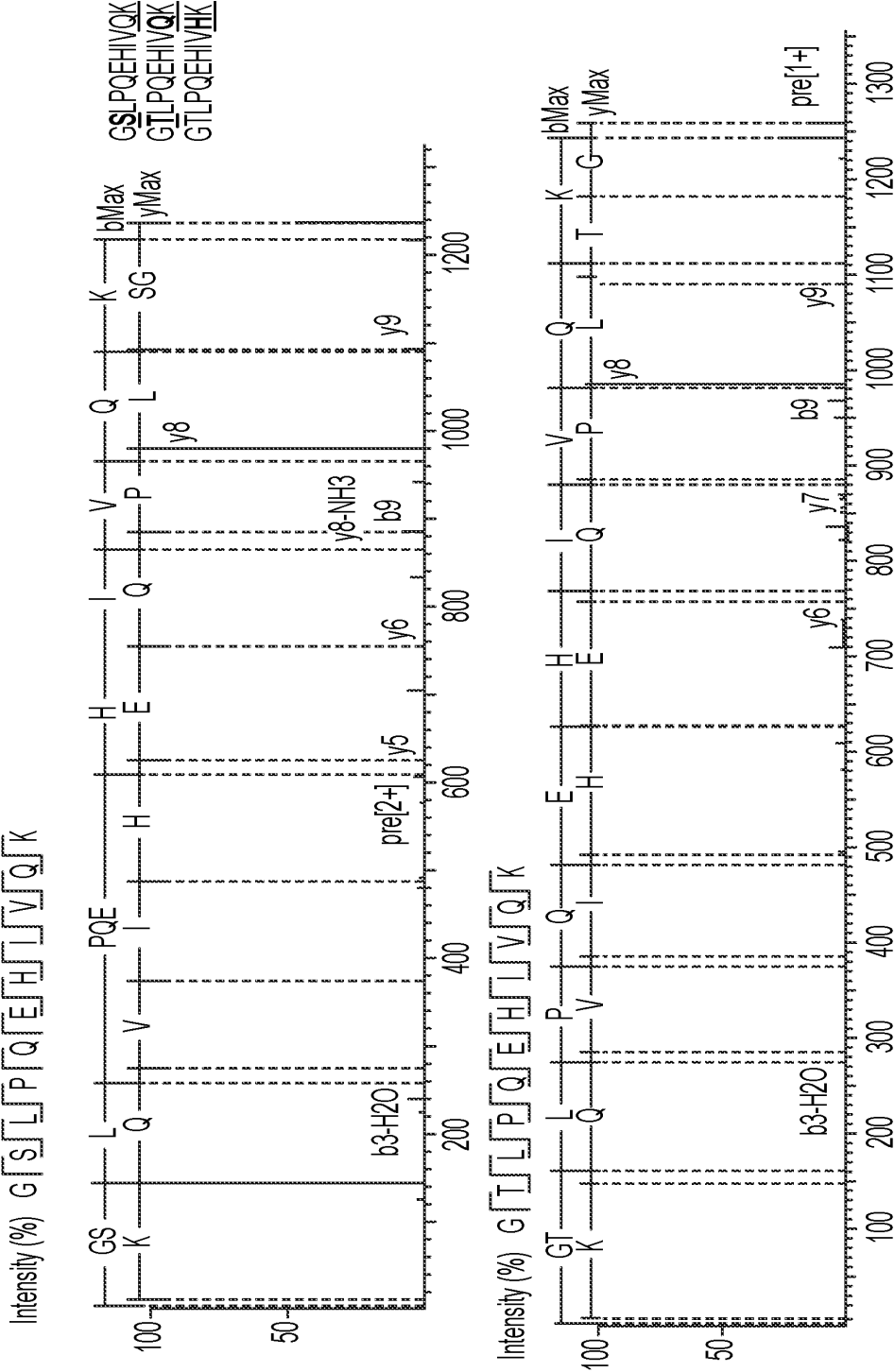


FIG. 8

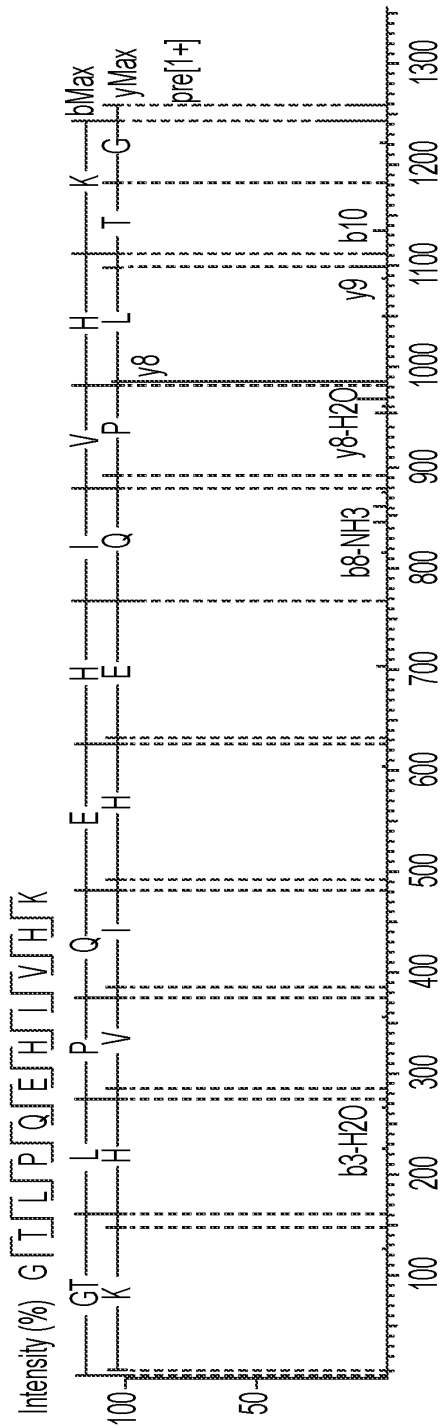


FIG. 8
CONTINUED

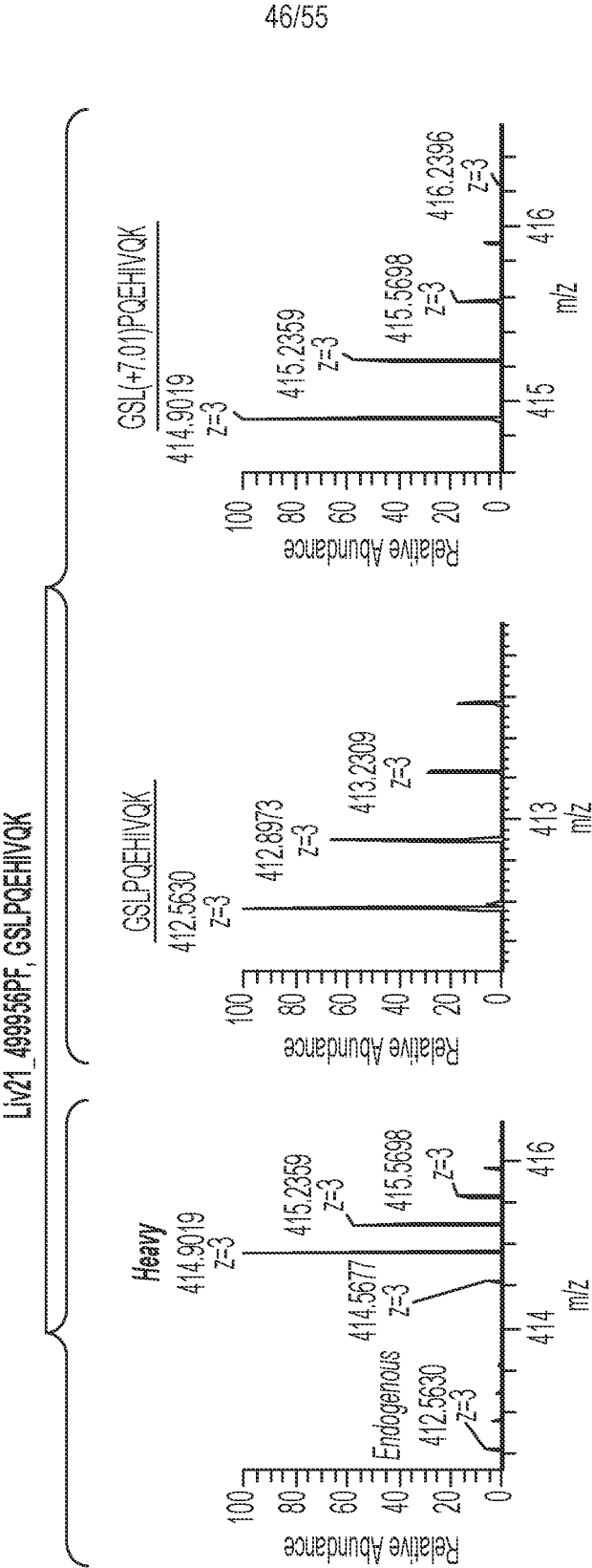


FIG. 9A

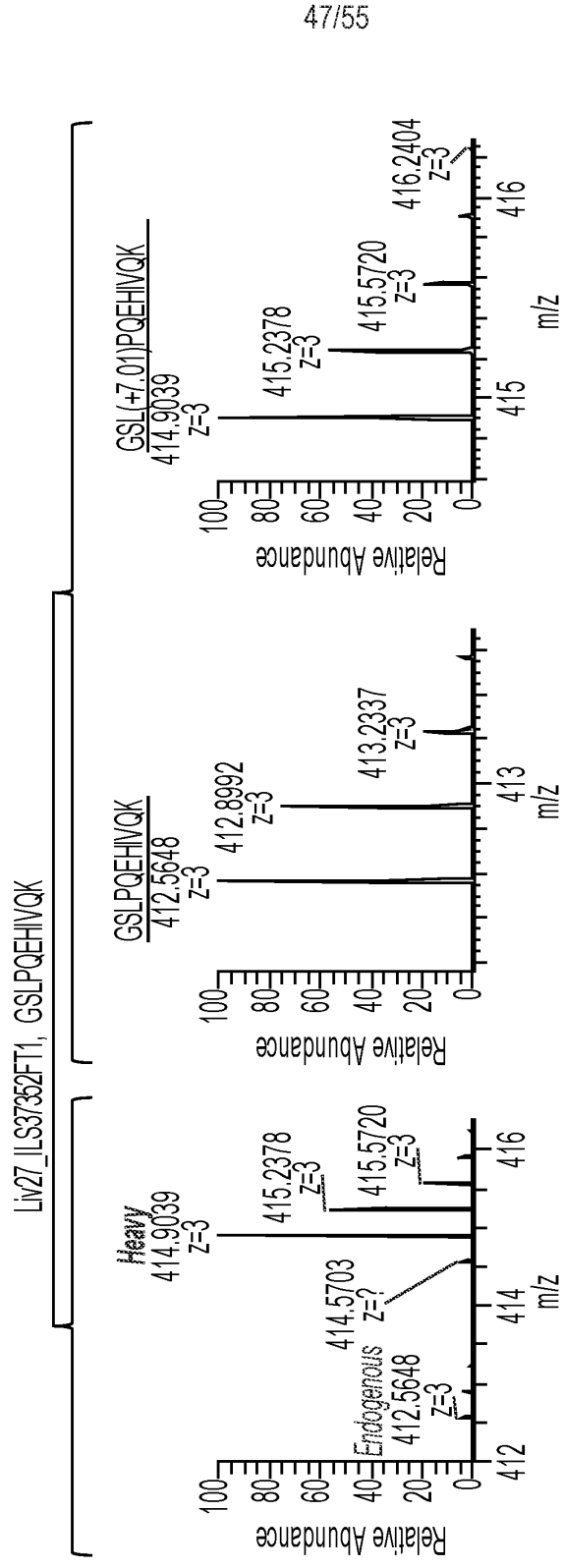


FIG. 9B

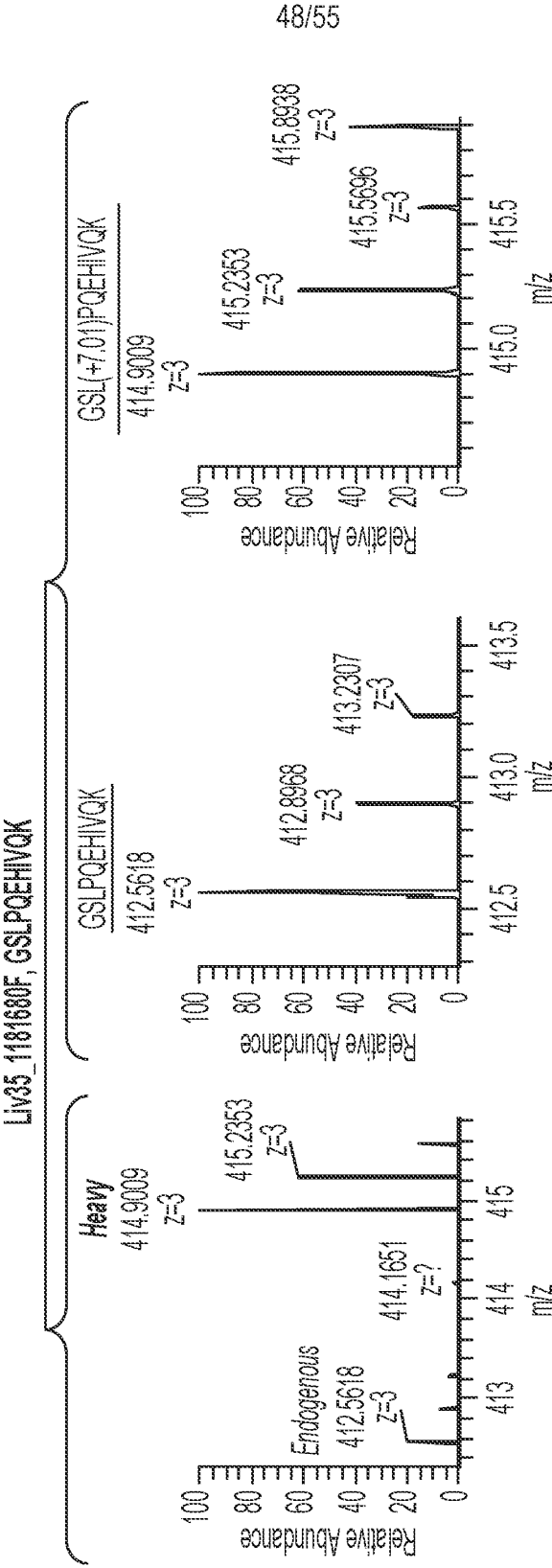


FIG. 9C

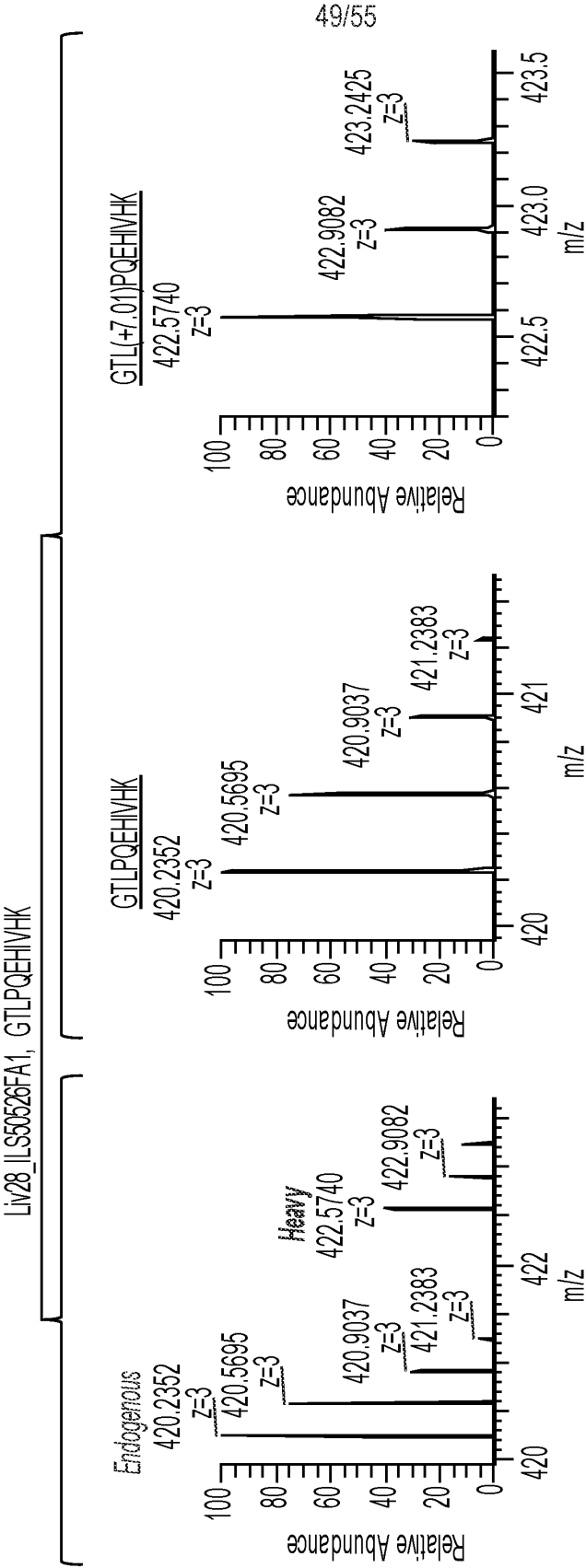


FIG. 9D

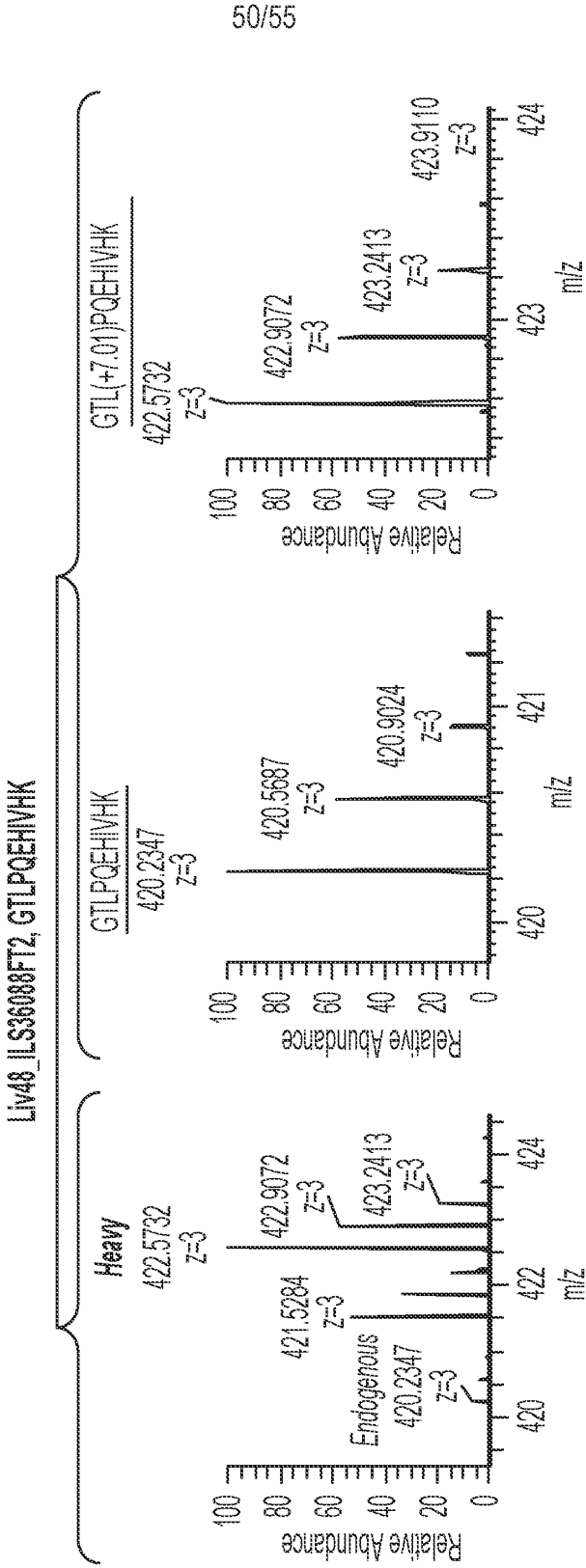


FIG. 9E

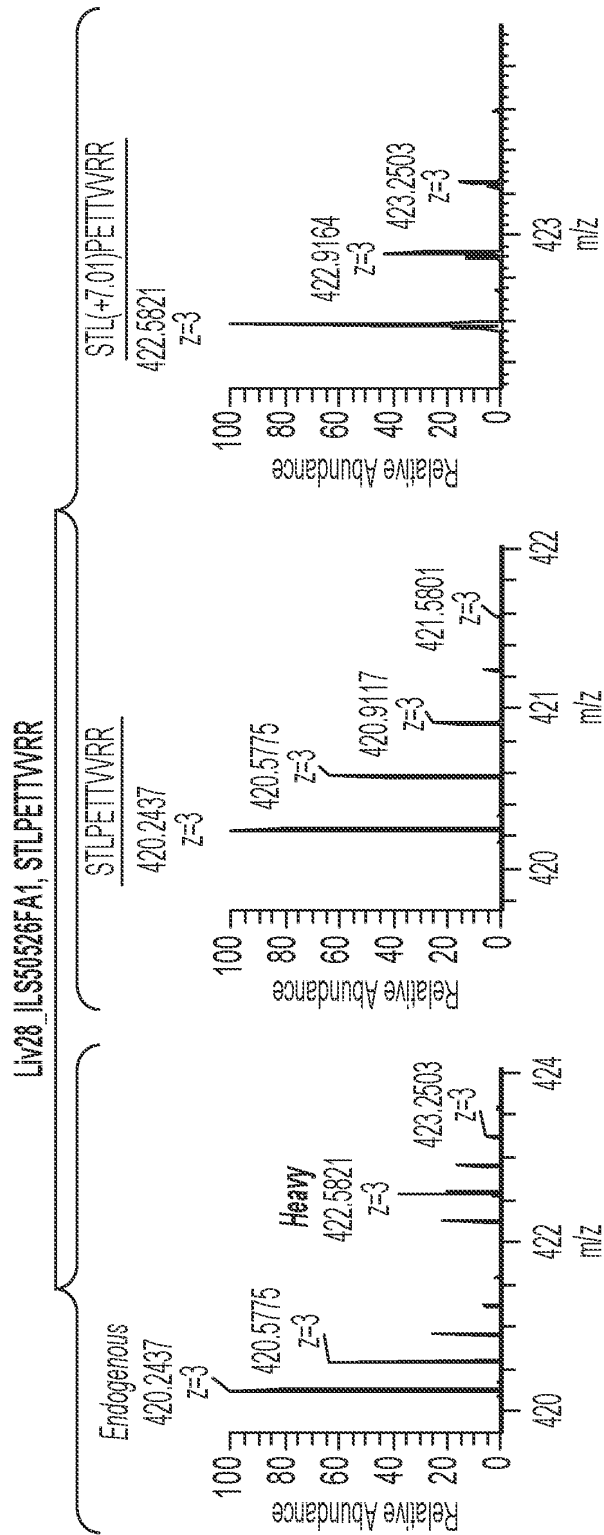


FIG. 9F

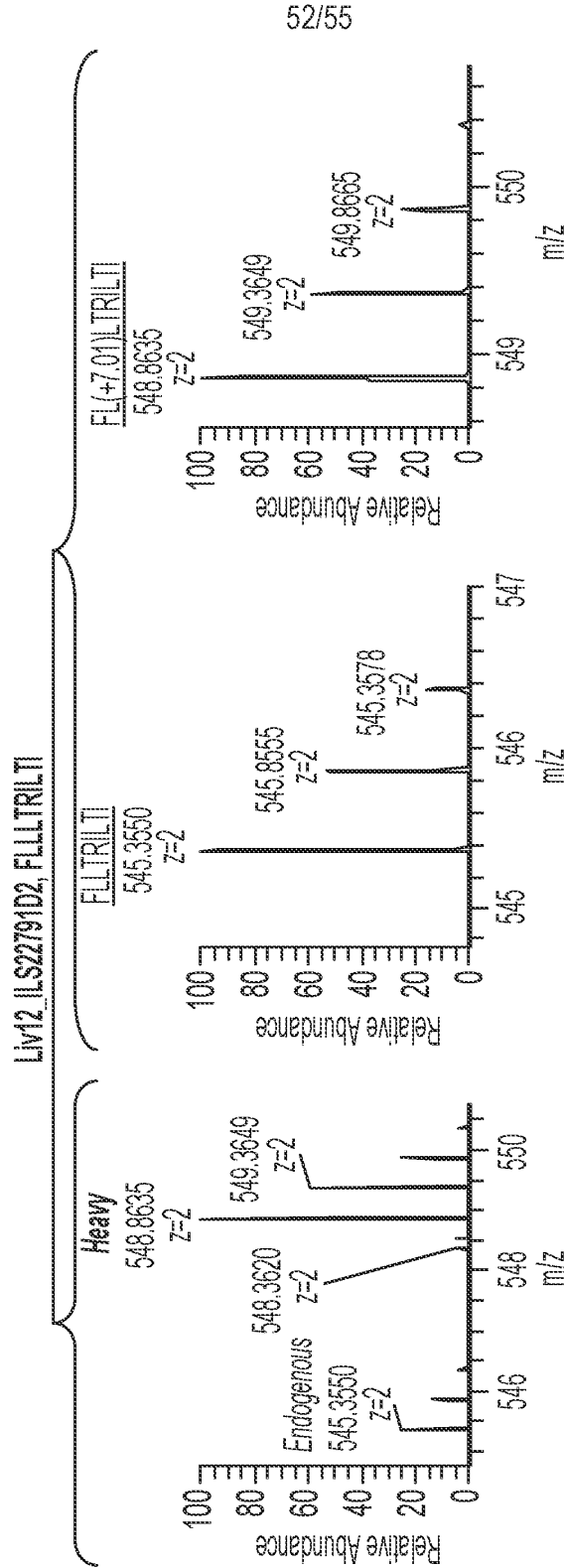


FIG. 9G

Figure	Sample ID	Peptide Sequence	Retention Time (MS1)	Light Intensity	Heavy Intensity	Estimated Copy Number
9a	Liv21_499956PF	GSLPQEHIVQK	24.70	3.24E+06	4.68E+07	42
9b	Liv27_ILS37352FT1	GSLPQEHIVQK	28.19	8.91E+06	1.72E+08	31
9c	Liv35_1181680F	GSLPQEHIVQK	14.71	1.75E+06	8.80E+06	120
9d	Liv28_ILS50526FA1	GTLPQEHIVHK	20.32	1.12E+06	4.55E+05	1482
9e	Liv48_ILS36088FT2	GTLPQEHIVHK	12.18	2.14E+06	3.21E+07	40
9f	Liv28_ILS50526FA1	STLPETTIVRR	30.53	2.65E+07	9.96E+06	1602
9g	Liv12_ILS22791D2	FLLTRILTI	99.35	2.52E+06	9.86E+06	154

FIG. 9H

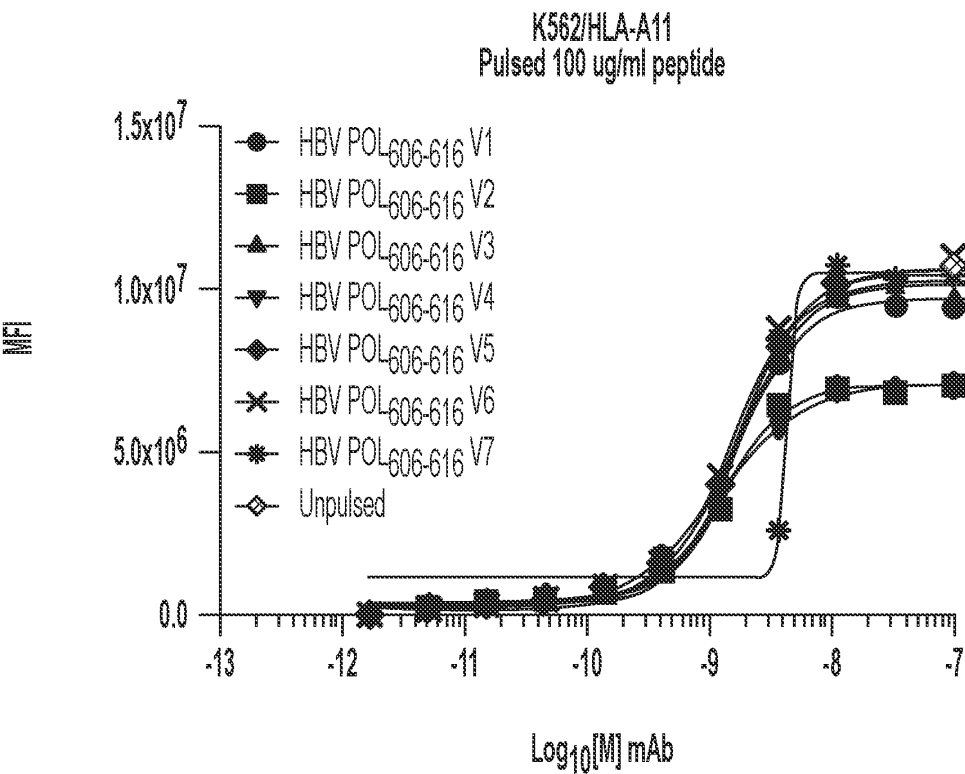


FIG. 10A

55/55

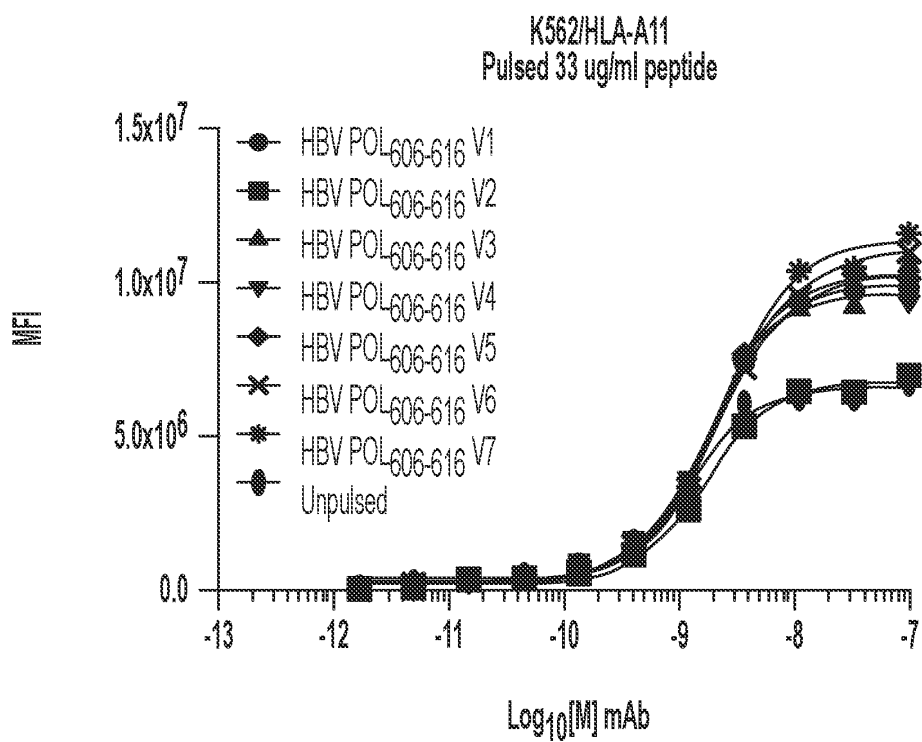


FIG. 10B