

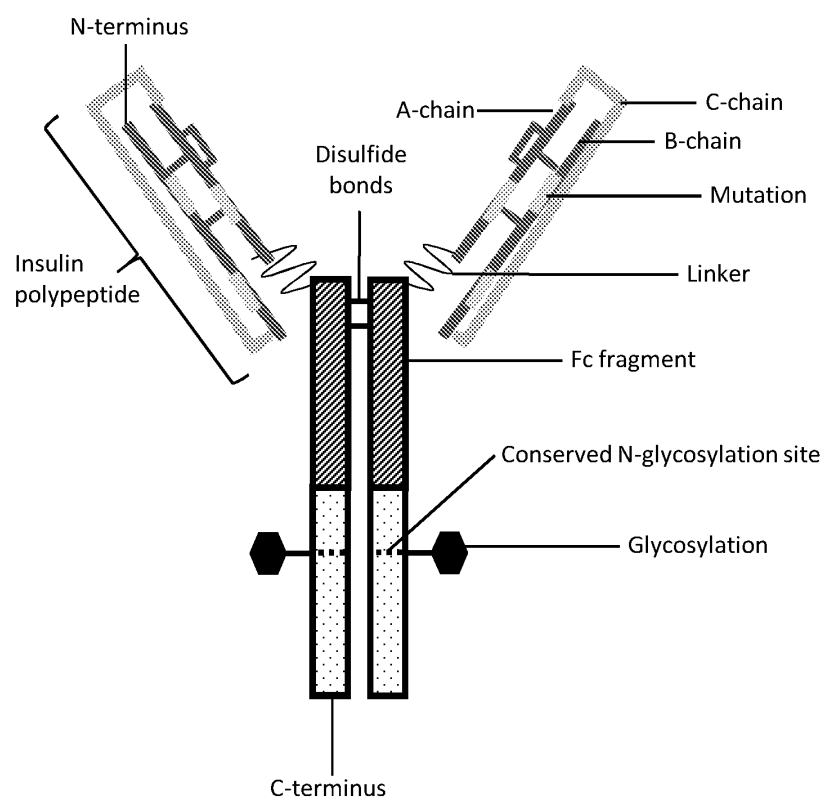


FIG. 1

2/30

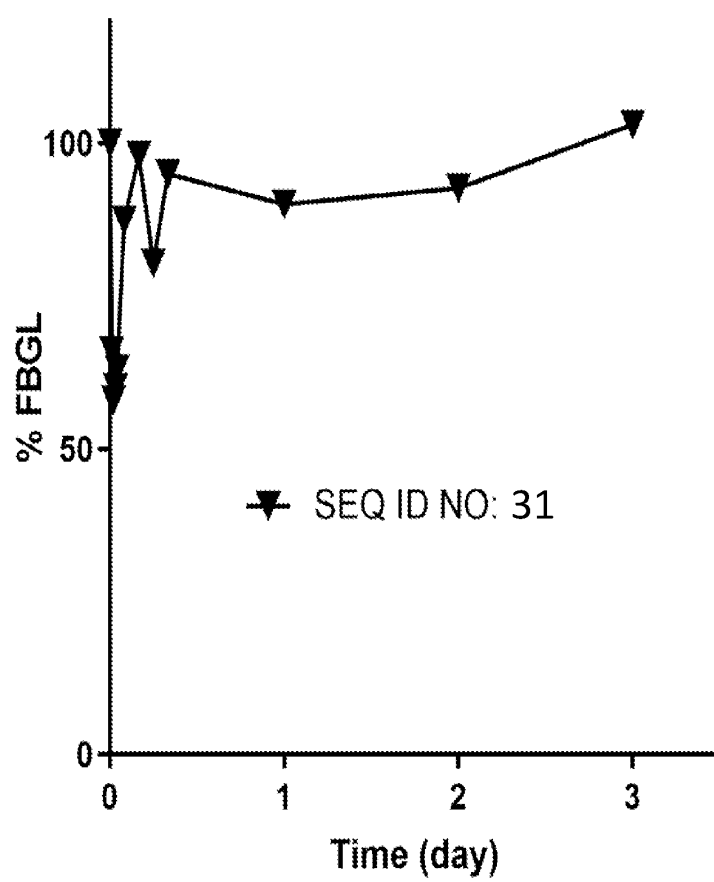


FIG. 2

3/30

```
SEQ ID NO: 32      FVNQHLCGSDLVEALALVCGERGFFYTDPTGGGPRRGIVEQCCHSICSLYQLENYCNGGG 60
SEQ ID NO: 33      FVNQHLCGSDLVEALALVCGERGFFYTDPTGGGPRRGIVEQCCHSICSLYQLENYCNGGG 60
SEQ ID NO: 34      FVNQHLCGSDLVEALALVCGERGFFYTDPTGGGPRRGIVEQCCHSICSLYQLENYCNGGG 60
SEQ ID NO: 31      FVNQHLCGSDLVEALALVCGERGFFYTDPTGGGPRRGIVEQCCHSICSLYQLENYCNGGG 60
SEQ ID NO: 35      FVNQHLCGSDLVEALALVCGERGFFYTDPTGGGPRRGIVEQCCHSICSLYQLENYCNGGG 60
*****

SEQ ID NO: 32      GAGGGGRCTDTPPCPVPEPLGGPSVLIFPPKPKDILRITRTEVTCVVLDLGREDPEVQI 120
SEQ ID NO: 33      GAGGGGRCTDTPPCPVPEPLGGPSVLIFPPKPKDILRITRTEVTCVVLDLGREDPEVQI 120
SEQ ID NO: 34      GAGGGGRCTDTPPCPVPEPLGGPSVLIFPPKPKDILRITRTEVTCVVLDLGREDPEVQI 120
SEQ ID NO: 31      GAGGGGRCTDTPPCPVPEPLGGPSVLIFPPKPKDILRITRTEVTCVVLDLGREDPEVQI 120
SEQ ID NO: 35      GAGGGGRCTDTPPCPVPEPLGGPSVLIFPPKPKDILRITRTEVTCVVLDLGREDPEVQI 120
*****

SEQ ID NO: 32      SWFVDGKEVHTAKTQSREQQFNGTYRVVSVLP IEHQDWLTGKEFKCRVNHIDLPSP IERT 180
SEQ ID NO: 33      SWFVDGKEVHTAKTQSREQQFNGTYRVVSVLP IEHQDWLTGKEFKCRVNHIDLPSP IERT 180
SEQ ID NO: 34      SWFVDGKEVHTAKTQSREQQFNGTYRVVSVLP IEHQDWLTGKEFKCRVNHIDLPSP IERT 180
SEQ ID NO: 31      SWFVDGKEVHTAKTQSREQQFNGTYRVVSVLP IEHQDWLTGKEFKCRVNHIDLPSP IERT 180
SEQ ID NO: 35      SWFVDGKEVHTAKTQSREQQFNGTYRVVSVLP IEHQDWLTGKEFKCRVNHIDLPSP IERT 180
*****

SEQ ID NO: 32      ISKARGRAHKPSVYVLPPSPKELSSSDTVSITCLIKDFYPPDIDVEWQSNQQEPEPKHR 240
SEQ ID NO: 33      ISKARGRAHKPSVYVLPPSPKELSSSDTVSITCLIKDFYPPDIDVEWQSNQQEPEPKHR 240
SEQ ID NO: 34      ISKARGRAHKPSVYVLPPSPKELSSSDTVSITCLIKDFYPPDIDVEWQSNQQEPEPKHR 240
SEQ ID NO: 31      ISKARGRAHKPSVYVLPPSPKELSSSDTVSITCLIKDFYPPDIDVEWQSNQQEPEPKHR 240
SEQ ID NO: 35      ISKARGRAHKPSVYVLPPSPKELSSSDTVSITCLIKDFYPPDIDVEWQSNQQEPEPKHR 240
*****

SEQ ID NO: 32      MTPPQLDEDGSYFLYSKLSVDKSRWQQGDPFTCAVLHEALHSHYTQKSLSLSPG 294
SEQ ID NO: 33      MTPPQLDEDGSYFLYSKLSVDKSRWQQGDPFTCAVLHETLQSHYTDLSLSHSPG 294
SEQ ID NO: 34      MTPPQLDEDGSYFLYSKLSVDKSRWQQGDPFTCAVMHETLQSHYTDLSLSHSPG 294
SEQ ID NO: 31      MTPPQLDEDGSYFLYSKLSVDKSRWQQGDPFTCAVMHETLQNHYTDLNHYTDLSLSHSPG 294
SEQ ID NO: 35      MTPPQLDEDGSYFLYSKLSVDKSRWQQGDPFTCAVLHETLQNHYTDLNHYTDLSLSHSPG 294
*****;*:.*:***: *** **
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FIG. 3

4/30

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SEQ ID NO: 31      FVNQHLCGSDLVEALALVCGERGFFYTDPTGGGPRRGIVEQCCHSICSLYQLENYCNGGG 60
SEQ ID NO: 38      FVNQHLCGSDLVEALALVCGERGFFYTDPTGGGPRRGIVEQCCHSICSLYQLENYCNGGG 60
SEQ ID NO: 36      FVNQHLCGSDLVEALALVCGERGFFYTDPTGGGPRRGIVEQCCHSICSLYQLENYCNGGG 60
SEQ ID NO: 37      FVNQHLCGSDLVEALALVCGERGFFYTDPTGGGPRRGIVEQCCHSICSLYQLENYCNGGG 60
                    *****

SEQ ID NO: 31      GAGGGGRCTDTPPCPVPEPLGGPSVLIFPPKPKDILRITRTPETCVVLDLGRDPEVQI 120
SEQ ID NO: 38      GAGGGGC---ISPCVPESLGGPSVFIFFPKPKDILRITRTPETCVVLDLGRDPEVQI 117
SEQ ID NO: 36      GAGGGGDCPK---CPAPEMLGGPSVFIFFPKPKDILLIARTPEVTCVVLDLDPEDPEVQI 117
SEQ ID NO: 37      GAGGGG-CNN-CPCPGCGLLGGPSVFIFFPKPKDILVTARTPTVTCVVVLDLDPENPEVQI 118
                    *****      **      *****;***** *      :*** :****;*. *;*****

SEQ ID NO: 31      SWFVDGKEVHTAKTQSREQQFNQTYRVVSVLP IEHQDWLTGKEFKCRVNHIDLPSPIERT 180
SEQ ID NO: 38      SWFVDGKEVHTAKTQPREQQFNSTYRVVSVLP IEHQDWLTGKEFKCRVNHIGLPSPIERT 177
SEQ ID NO: 36      SWFVDGKQMOTAKTQPREEQFNQTYRVVSVLP IGHQDWLKGKQFTCKVNNKALPSPIERT 177
SEQ ID NO: 37      SWFVDSKQVQTANTQPREEQSNGTYRVVSVLP IGHQDWLSGKQFKCKVNNKALPSPIEEI 178
                    *****.*;.:**;* **;* *.***** *****.*;.*;*: *****.

SEQ ID NO: 31      ISKARGRAHKPSVYVLPSPKELSSSDTVSITCLIKDFYPPDIDVEWQSNQOQEPERKHR 240
SEQ ID NO: 38      ISKARGQAHQPSVYVLPSPKELSSSDTVTLTCLIKDFFPPEIDVEWQSNQOQEPESKYH 237
SEQ ID NO: 36      ISKARGQAHQPSVYVLPSPREELS-KNTVSLTCLIKDFFPDIDVEWQSNQOQEPESKYR 236
SEQ ID NO: 37      ISKTPGQAHQPNVYVLPSPRDEMS-KNTVTLTCLVKDFFPPEIDVEWQSNQOQEPESKYR 237
                    ***: *.***.*.***** .*: * .:***:***:***:***:***** *** *:;

SEQ ID NO: 31      MTPPQLDEDGSYFLYSKLSVDKSRWQQGDPFTCAVMHETLQNHYTDLSSLSPG 294
SEQ ID NO: 38      TTAPQLDEDGSYFLYSKLSVDKSRWQQGDTFTCAVMHEALQNHYTDLSSLSPG 291
SEQ ID NO: 36      TTPPQLDEDGSYFLYSKLSVDKSRWQRGDTFICAVMHEALHNHYTQESLSPG 290
SEQ ID NO: 37      MTPPQLDEDGSYFLYSKLSVDKSRWQRGDTFICAVMHEALHNHYTQISLSPG 291
                    * *****;** * *****;*.****: *****

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FIG. 4

5/30

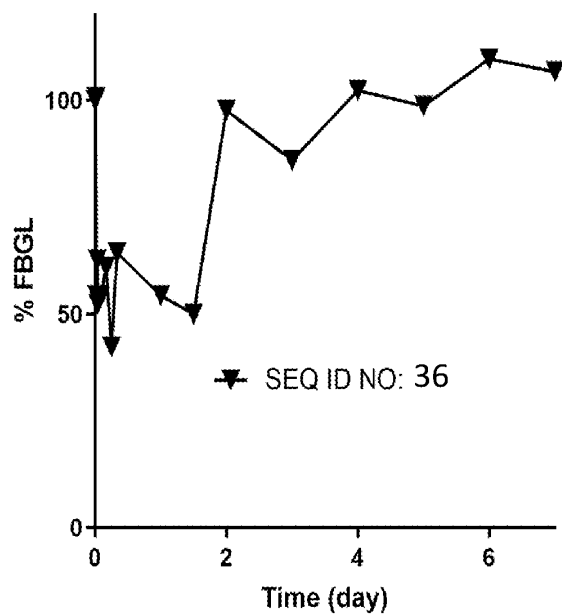


FIG. 5

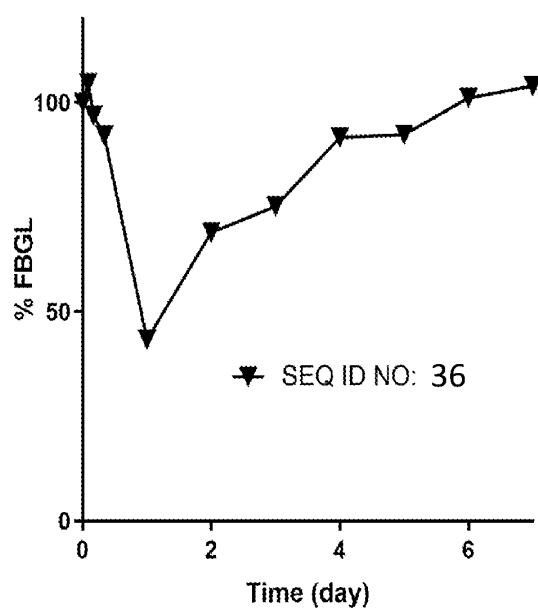


FIG. 6

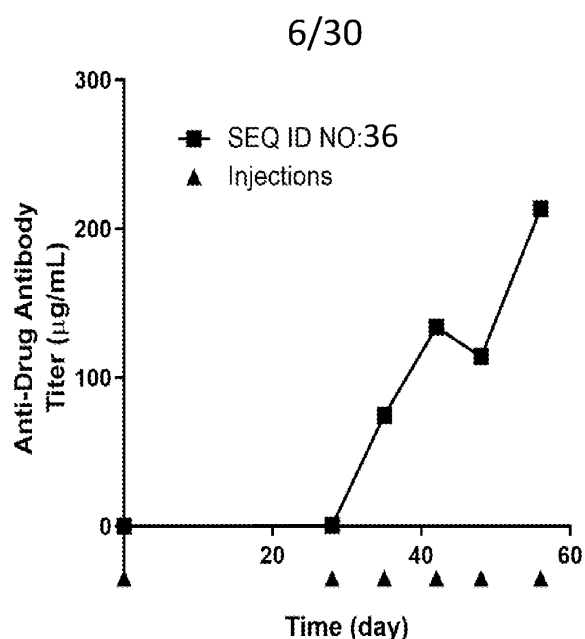


FIG. 7

SEQ ID NO: 39	FVNQHLCGSDLVEALALVCGERGFYTDPTGGGPRRGIVEQCCHSICSLYQLENYCNGGG	60
SEQ ID NO: 40	FVNQHLCGSDLVEALALVCGERGFYTDPTGGGPRRGIVEQCCHSICSLYQLENYCNGGG	60
SEQ ID NO: 41	FVNQHLCGSDLVEALALVCGERGFYTDPTGGGPRRGIVEQCCHSICSLYQLENYCNGGG	60
SEQ ID NO: 42	FVNQHLCGSDLVEALALVCGERGFYTDPTGGGPRRGIVEQCCHSICSLYQLENYCNGGG	60

SEQ ID NO: 39	GAGGGGDCPKCPAPEMLGGPSVFIFFPKPKDTLLIARTPEVTCVVVDLDPEDPEVQISWF	120
SEQ ID NO: 40	GAGGGGDCPKCPAPEMLGGPSVFIFFPKPKDTLLIARTPEVTCVVVDLDPEDPEVQISWF	120
SEQ ID NO: 41	GAGGGGDCPKCPAPEMLGGPSVFIFFPKPKDTLLIARTPEVTCVVVDLDPEDPEVQISWF	120
SEQ ID NO: 42	GAGGGGDCPKCPAPEMLGGPSVFIFFPKPKDTLLIARTPEVTCVVVDLDPEDPEVQISWF	120

SEQ ID NO: 39	VDGKQMQTAKTQPREEQFGTYRVVSVLPIGHQDWLKGKQFTCKVNNKALPSPIERTISK	180
SEQ ID NO: 40	VDGKQMQTAKTQPREEQFGTYRVVSVLPIGHQDWLKGKQFTCKVNNKALPSPIERTISK	180
SEQ ID NO: 41	VDGKQMQTAKTQPREEQFDGTYRVVSVLPIGHQDWLKGKQFTCKVNNKALPSPIERTISK	180
SEQ ID NO: 42	VDGKQMQTAKTQPREEQFKGTYRVVSVLPIGHQDWLKGKQFTCKVNNKALPSPIERTISK	180

SEQ ID NO: 39	ARGQAHQPSVYVLPSPREELSKNTVSLTCLIKDFFPPDIDVEWQSNQOQEPESKYRTTPP	240
SEQ ID NO: 40	ARGQAHQPSVYVLPSPREELSKNTVSLTCLIKDFFPPDIDVEWQSNQOQEPESKYRTTPP	240
SEQ ID NO: 41	ARGQAHQPSVYVLPSPREELSKNTVSLTCLIKDFFPPDIDVEWQSNQOQEPESKYRTTPP	240
SEQ ID NO: 42	ARGQAHQPSVYVLPSPREELSKNTVSLTCLIKDFFPPDIDVEWQSNQOQEPESKYRTTPP	240

SEQ ID NO: 39	QLDEDGSYFLYSKLSVDKSRWQRGDTFICAVMHEALHNHYTQESLSHSPG	290
SEQ ID NO: 40	QLDEDGSYFLYSKLSVDKSRWQRGDTFICAVMHEALHNHYTQESLSHSPG	290
SEQ ID NO: 41	QLDEDGSYFLYSKLSVDKSRWQRGDTFICAVMHEALHNHYTQESLSHSPG	290
SEQ ID NO: 42	QLDEDGSYFLYSKLSVDKSRWQRGDTFICAVMHEALHNHYTQESLSHSPG	290

FIG. 8

7/30

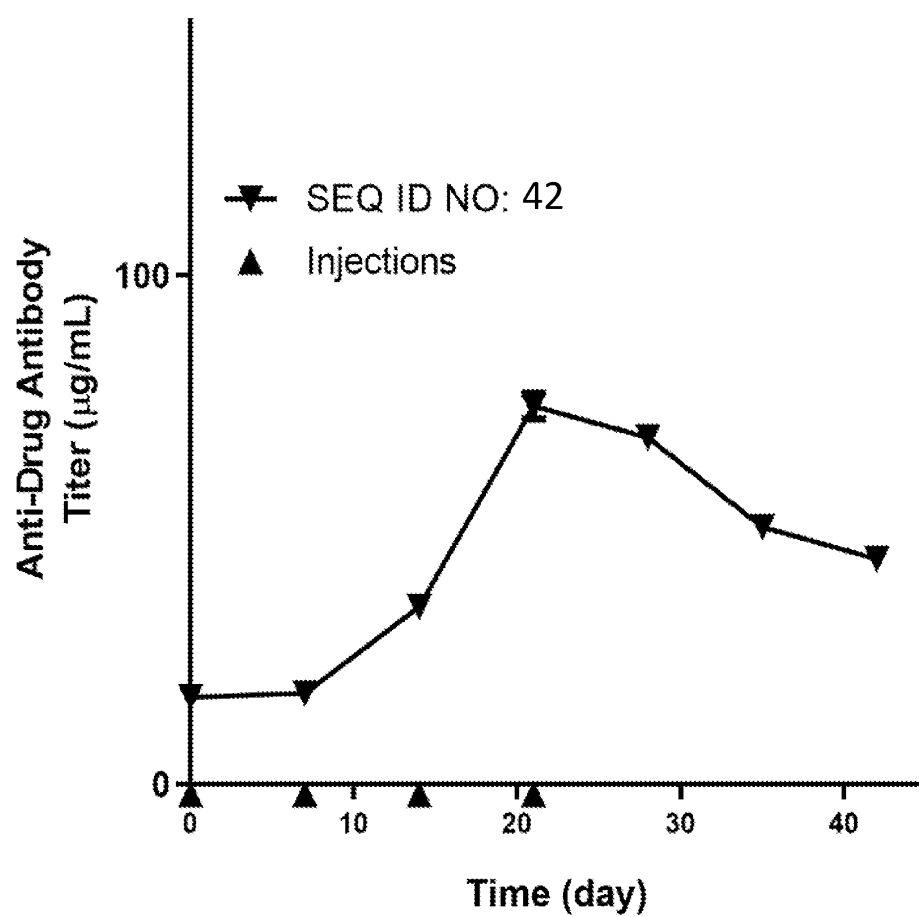


FIG. 9

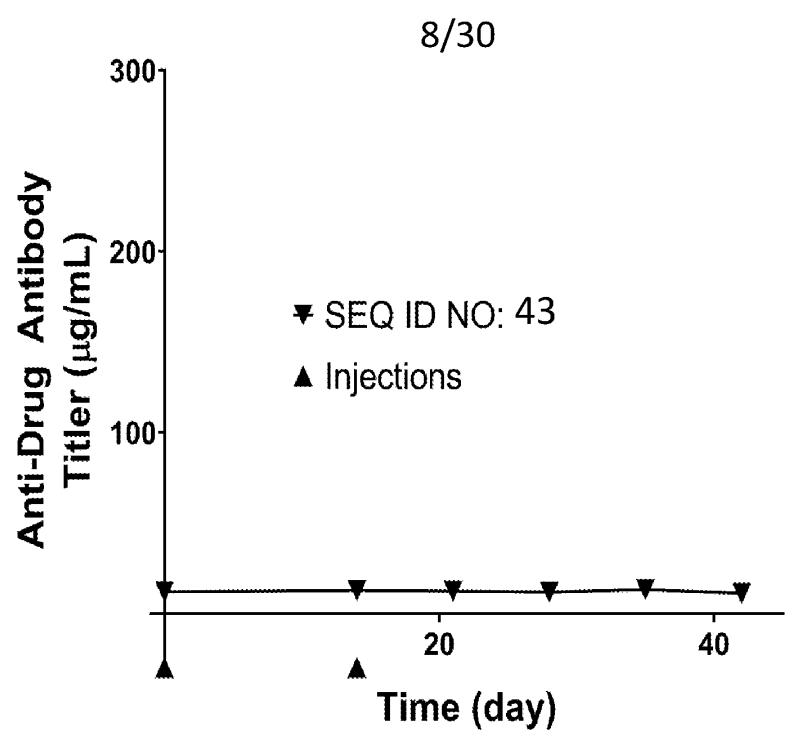


FIG. 10

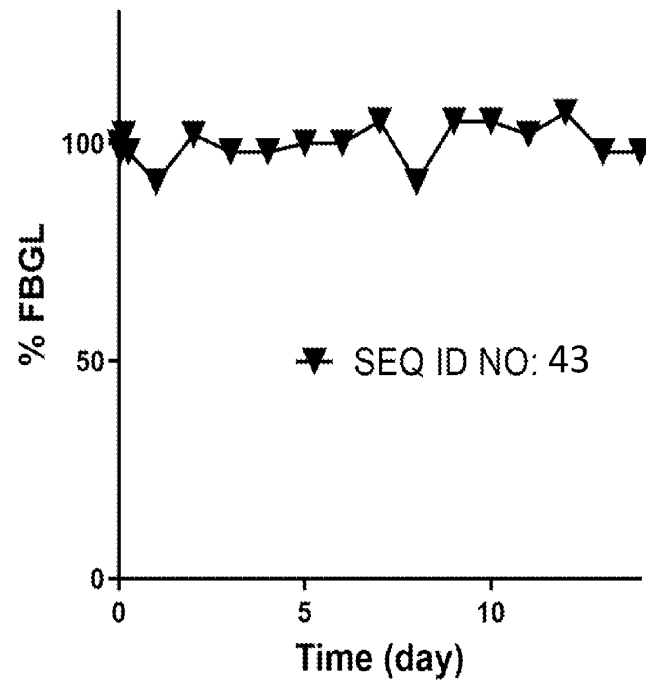


FIG. 11

9/30

```
SEQ ID NO: 43      FVNQHLCGSHLVEALALVCGERGFFYTDPTGGGPRRGIVEQCCTSICSSLYQLENYCCGG 60
SEQ ID NO: 44      FVNQHLCGSHLVQALYLVCGERGFFYTDPTGGGPRRGIVEQCCTSICSSLYQLENYCCGG-G 59
SEQ ID NO: 45      FVNQHLCGSELVEALALVCGERGFFYTDPTGGGPRRGIVEQCCTSICSSLYQLENYCCGG-G 59
SEQ ID NO: 46      FVNQHLCGSHLVEALALVCGEAGFFYTDPTGGGPRRGIVEQCCTSICSSLYQLENYCCGG-G 59
SEQ ID NO: 47      FVNQHLCGSHLVEALALVCGERGFFYTDPTGGGPRRGIVEQCCTSICSSLYQLENYCCGG-G 59
SEQ ID NO: 48      FVNQHLCGSHLVEALALVCGERGFFYTDPTGGGPRRGIVEQCCTSICSSLYQLENYCCGG-G 59
                    *****.**:** ***** **:*****

SEQ ID NO: 43      GAGGGGDCPKCPAPEMLGGPSVFIFPPKPKDTLLIARTPEVTCVVVDLDPEDPEVQISWF 120
SEQ ID NO: 44      GAGGGGDCPKCPAPEMLGGPSVFIFPPKPKDTLLIARTPEVTCVVVDLDPEDPEVQISWF 119
SEQ ID NO: 45      GAGGGGDCPKCPAPEMLGGPSVFIFPPKPKDTLLIARTPEVTCVVVDLDPEDPEVQISWF 119
SEQ ID NO: 46      GAGGGGDCPKCPAPEMLGGPSVFIFPPKPKDTLLIARTPEVTCVVVDLDPEDPEVQISWF 119
SEQ ID NO: 47      GAGGGGDCPKCPAPEMLGGPSVFIFPPKPKDTLLIARTPEVTCVVVDLDPEDPEVQISWF 119
SEQ ID NO: 48      GAGGGGDCPKCPAPEMLGGPSVFIFPPKPKDTLLIARTPEVTCVVVDLDPEDPEVQISWF 119
                    *****

SEQ ID NO: 43      VDGKQMQTAKTQPREEQFSGTYRVSVLPIGHQDWLKGKQFTCKVNNKALPSPIERTISK 180
SEQ ID NO: 44      VDGKQMQTAKTQPREEQFSGTYRVSVLPIGHQDWLKGKQFTCKVNNKALPSPIERTISK 179
SEQ ID NO: 45      VDGKQMQTAKTQPREEQFSGTYRVSVLPIGHQDWLKGKQFTCKVNNKALPSPIERTISK 179
SEQ ID NO: 46      VDGKQMQTAKTQPREEQFSGTYRVSVLPIGHQDWLKGKQFTCKVNNKALPSPIERTISK 179
SEQ ID NO: 47      VDGKQMQTAKTQPREEQFSGTYRVSVLPIGHQDWLKGKQFTCKVNNKALPSPIERTISK 179
SEQ ID NO: 48      VDGKQMQTAKTQPREEQFSGTYRVSVLPIGHQDWLKGKQFTCKVNNKALPSPIERTISK 179
                    *****

SEQ ID NO: 43      ARGQAHQPSVYVLPSPREELSKNTVSLTCLIKDFFPPDIDVEWQSNGOQEPESKYRTTPP 240
SEQ ID NO: 44      ARGQAHQPSVYVLPSPREELSKNTVSLTCLIKDFFPPDIDVEWQSNGOQEPESKYRTTPP 239
SEQ ID NO: 45      ARGQAHQPSVYVLPSPREELSKNTVSLTCLIKDFFPPDIDVEWQSNGOQEPESKYRTTPP 239
SEQ ID NO: 46      ARGQAHQPSVYVLPSPREELSKNTVSLTCLIKDFFPPDIDVEWQSNGOQEPESKYRTTPP 239
SEQ ID NO: 47      ARGQAHQPSVYVLPSPREELSKNTVSLTCLIKDFFPPDIDVEWQSNGOQEPESKYRTTPP 239
SEQ ID NO: 48      ARGQAHQPSVYVLPSPREELSKNTVSLTCLIKDFFPPDIDVEWQSNGOQEPESKYRTTPP 239
                    *****

SEQ ID NO: 43      QLDEDGSYFLYSKLSVDKSRWQRGDTFICAVMHEALHNHYTQESLSHSPG 290
SEQ ID NO: 44      QLDEDGSYFLYSKLSVDKSRWQRGDTFICAVMHEALHNHYTQESLSHSPG 289
SEQ ID NO: 45      QLDEDGSYFLYSKLSVDKSRWQRGDTFICAVMHEALHNHYTQESLSHSPG 289
SEQ ID NO: 46      QLDEDGSYFLYSKLSVDKSRWQRGDTFICAVMHEALHNHYTQESLSHSPG 289
SEQ ID NO: 47      QLDEDGSYFLYSKLSVDKSRWQRGDTFICAVMHEALHNHYTQESLSHSPG 289
SEQ ID NO: 48      QLDEDGSYFLYSKLSVDKSRWQRGDTFICAVMHEALHNHYTQESLSHSPG 289
                    *****
```

FIG. 12

10/30

SEQ ID NO: 43	FVNQHLCGSHLVEALALVCGERGFFYTDPTGG-----GPRRGIVEQCCTSI	55
SEQ ID NO: 49	FVNQHLCGSHLVQALYLVCGERGFFYTDPTQGGG--GGQRGIVEQCCTSI	58
SEQ ID NO: 50	FVNQHLCGSHLVEALALVCGERGFFYTDPTGGGGGGSGGGGIVEQCCTSI	60
SEQ ID NO: 51	FVNQHLCGSHLVEALALVCGERGFFYTDPGGGG----GGGGGIVEQCCTSI	56
SEQ ID NO: 52	FVNQHLCGSHLVEALALVCGERGFFYT-PGGGG----GGGGGIVEQCCTSI	55
*****: ** ***** *		
SEQ ID NO: 43	CNGGGGAGGGDCPKCPAPEMLGGPSVFIFFPKPKDTLLIARTPEVTCVVVDLDPEDPEV	115
SEQ ID NO: 49	CGG-GGAGGGDCPKCPAPEMLGGPSVFIFFPKPKDTLLIARTPEVTCVVVDLDPEDPEV	117
SEQ ID NO: 50	CGG-GGAGGGDCPKCPAPEMLGGPSVFIFFPKPKDTLLIARTPEVTCVVVDLDPEDPEV	119
SEQ ID NO: 51	CGG-GGAGGGDCPKCPAPEMLGGPSVFIFFPKPKDTLLIARTPEVTCVVVDLDPEDPEV	115
SEQ ID NO: 52	CGG-GGAGGGDCPKCPAPEMLGGPSVFIFFPKPKDTLLIARTPEVTCVVVDLDPEDPEV	114
*, * *****		
SEQ ID NO: 43	QISWFVDGKQMOTAKTQPREEQFGTYRVVSVLPIGHQDWLKGKQFTCKVNNKALPSPIE	175
SEQ ID NO: 49	QISWFVDGKQMOTAKTQPREEQFSGTYRVVSVLPIGHQDWLKGKQFTCKVNNKALPSPIE	177
SEQ ID NO: 50	QISWFVDGKQMOTAKTQPREEQFSGTYRVVSVLPIGHQDWLKGKQFTCKVNNKALPSPIE	179
SEQ ID NO: 51	QISWFVDGKQMOTAKTQPREEQFSGTYRVVSVLPIGHQDWLKGKQFTCKVNNKALPSPIE	175
SEQ ID NO: 52	QISWFVDGKQMOTAKTQPREEQFSGTYRVVSVLPIGHQDWLKGKQFTCKVNNKALPSPIE	174
***** , *****		
SEQ ID NO: 43	RTISKARGQAHQPSVYVLPSSREELSKNTVSLTCLIKDFFPPDIDVEWQSNQQEPESKY	235
SEQ ID NO: 49	RTISKARGQAHQPSVYVLPSSREELSKNTVSLTCLIKDFFPPDIDVEWQSNQQEPESKY	237
SEQ ID NO: 50	RTISKARGQAHQPSVYVLPSSREELSKNTVSLTCLIKDFFPPDIDVEWQSNQQEPESKY	239
SEQ ID NO: 51	RTISKARGQAHQPSVYVLPSSREELSKNTVSLTCLIKDFFPPDIDVEWQSNQQEPESKY	235
SEQ ID NO: 52	RTISKARGQAHQPSVYVLPSSREELSKNTVSLTCLIKDFFPPDIDVEWQSNQQEPESKY	234

SEQ ID NO: 43	RTTPPQLDEDGSYFLYSKLSVDKSRWQRGDTFICAVMHEALHNHYTQESLSHSPG	290
SEQ ID NO: 49	RTTPPQLDEDGSYFLYSKLSVDKSRWQRGDTFICAVMHEALHNHYTQESLSHSPG	292
SEQ ID NO: 50	RTTPPQLDEDGSYFLYSKLSVDKSRWQRGDTFICAVMHEALHNHYTQESLSHSPG	294
SEQ ID NO: 51	RTTPPQLDEDGSYFLYSKLSVDKSRWQRGDTFICAVMHEALHNHYTQESLSHSPG	290
SEQ ID NO: 52	RTTPPQLDEDGSYFLYSKLSVDKSRWQRGDTFICAVMHEALHNHYTQESLSHSPG	289

FIG. 13

11/30

SEQ ID NO: 43	FVNQHLCGSHLVEALALVCGERGFFYTDPTGGGPRRGIVEQCCTSI	60
SEQ ID NO: 53	FVNQHLCGSHLVEALALVCGERGFFYTDPTGGGPRRGIVEQCCTSI	60
SEQ ID NO: 48	FVNQHLCGSHLVEALALVCGERGFFYTDPTGGGPRRGIVEQCCTSI	60

SEQ ID NO: 43	GA-----GGGGDCPKCPAPEMLGGPSVFI	109
SEQ ID NO: 53	GQGGGQGGGGQGGGGDCPKCPAPEMLGGPSVFI	120
SEQ ID NO: 48	A-----GGGGDCPKCPAPEMLGGPSVFI	108

SEQ ID NO: 43	PEDPEVQISWFDGKQMQTAKTQPREEQFG	169
SEQ ID NO: 53	PEDPEVQISWFDGKQMQTAKTQPREEQFSG	180
SEQ ID NO: 48	PEDPEVQISWFDGKQMQTAKTQPREEQFSG	168

SEQ ID NO: 43	LPSPiERTISKARGQAHQPSVYVLP	229
SEQ ID NO: 53	LPSPiERTISKARGQAHQPSVYVLP	240
SEQ ID NO: 48	LPSPiERTISKARGQAHQPSVYVLP	228

SEQ ID NO: 43	EPESKYRTTPPQLDEDGSYFLYSKLSVDKSRWQRGDTFICAVMHEALHNHYTQESLSHSP	289
SEQ ID NO: 53	EPESKYRTTPPQLDEDGSYFLYSKLSVDKSRWQRGDTFICAVMHEALHNHYTQESLSHSP	300
SEQ ID NO: 48	EPESKYRTTPPQLDEDGSYFLYSKLSVDKSRWQRGDTFICAVMHEALHNHYTQESLSHSP	288

SEQ ID NO: 43	G 290	
SEQ ID NO: 53	G 301	
SEQ ID NO: 48	G 289	
	*	

FIG. 14

12/30

SEQ ID NO: 43	FVNQHLCGSHLVEALALVCGERGFFYTDP TGGG-PRRGIVEQCCTSI CSLYQLENYCNGG	59
SEQ ID NO: 51	FVNQHLCGSHLVEALALVCGERGFFYTDPGGGGGGGGGIVEQCCTSI CSLYQLENYCGG-	59
SEQ ID NO: 54	FVNQHLCGSHLVEALALVCGERGFFYTQG-GGGGGGGGIVEQCCTSI CSLYQLENYCGG-	58
SEQ ID NO: 52	FVNQHLCGSHLVEALALVCGERGFFYTPG-GGGGGGGGIVEQCCTSI CSLYQLENYCGG- ***** **	58
SEQ ID NO: 43	GGAGGGGDCPKCPAPEMLGGPSVFIFPPKPKDTLLIARTPEVTCVVVDLDPEDPEVQISW	119
SEQ ID NO: 51	GGAGGGGDCPKCPAPEMLGGPSVFIFPPKPKDTLLIARTPEVTCVVVDLDPEDPEVQISW	119
SEQ ID NO: 54	GGAGGGGDCPKCPAPEMLGGPSVFIFPPKPKDTLLIARTPEVTCVVVDLDPEDPEVQISW	118
SEQ ID NO: 52	GGAGGGGDCPKCPAPEMLGGPSVFIFPPKPKDTLLIARTPEVTCVVVDLDPEDPEVQISW *****	118
SEQ ID NO: 43	FVDGKQMQTAKTQPREEQFGTYRVVSVLPIGHQDWLKGKQFTCKVNNKALPSPIERTIS	179
SEQ ID NO: 51	FVDGKQMQTAKTQPREEQFSGT YRVVSVLPIGHQDWLKGKQFTCKVNNKALPSPIERTIS	179
SEQ ID NO: 54	FVDGKQMQTAKTQPREEQFSGT YRVVSVLPIGHQDWLKGKQFTCKVNNKALPSPIERTIS	178
SEQ ID NO: 52	FVDGKQMQTAKTQPREEQFSGT YRVVSVLPIGHQDWLKGKQFTCKVNNKALPSPIERTIS *****	178
SEQ ID NO: 43	KARGQAHQPSVYVLPSPREELSKNTVSLTCLIKDFFPPDIDVEWQSNQGQEPESKYRTTP	239
SEQ ID NO: 51	KARGQAHQPSVYVLPSPREELSKNTVSLTCLIKDFFPPDIDVEWQSNQGQEPESKYRTTP	239
SEQ ID NO: 54	KARGQAHQPSVYVLPSPREELSKNTVSLTCLIKDFFPPDIDVEWQSNQGQEPESKYRTTP	238
SEQ ID NO: 52	KARGQAHQPSVYVLPSPREELSKNTVSLTCLIKDFFPPDIDVEWQSNQGQEPESKYRTTP *****	238
SEQ ID NO: 43	PQLDEDGSYFLYSKLSVDKSRWQRGDTFICAVMHEALHNHYTQESLSHSPG	290
SEQ ID NO: 51	PQLDEDGSYFLYSKLSVDKSRWQRGDTFICAVMHEALHNHYTQESLSHSPG	290
SEQ ID NO: 54	PQLDEDGSYFLYSKLSVDKSRWQRGDTFICAVMHEALHNHYTQESLSHSPG	289
SEQ ID NO: 52	PQLDEDGSYFLYSKLSVDKSRWQRGDTFICAVMHEALHNHYTQESLSHSPG *****	289

FIG. 15

13/30

SEQ ID NO: 43	FVNQHLCGSHLVEALALVCGERGFFYTDPTGG-GPRRGIVEQCCTSICSLYQLENYCNGG	59
SEQ ID NO: 55	FVNQHLCGSHLVEALELVCGERGFFYTPKTGGSGGGGGIVEQCCTSTCSLDQLENYCGG-	59
SEQ ID NO: 56	FVNQHLCGSHLVEALELVCGERGFHYGGGGGSGGGGGIVEQCCTSTCSLDQLENYCNGH	60
SEQ ID NO: 28	FVNQHLCGSHLVEALELVCGERGFHYGGGGGSGGGGGIVEQCCTSTCSLDQLENYCNGG	60
SEQ ID NO: 26	FVNQHLCGSHLVEALELVCGERGFHYGGGGGSGGGGGIVEQCCTSTCSLDQLENYCGG-	59
SEQ ID NO: 57	FVNQHLCGSHLVEALELVCGERGFFYGGGGGSGGGGGIVEQCCTSTCSLDQLENYCGG- ***** * * * *	59
SEQ ID NO: 43	GG-----AGGGDCPKCPAPEMLGGPSVFIFFPKPKDTLLIARTPEVTCVVVD	107
SEQ ID NO: 55	GGGQGGGGQGGGGQGGGGDCPKCPAPEMLGGPSVFIFFPKPKDTLLIARTPEVTCVVVD	119
SEQ ID NO: 56	GGGQGGGGQGGGGQGGGGDCPKCPAPEMLGGPSVFIFFPKPKDTLLIARTPEVTCVVVD	120
SEQ ID NO: 28	GGGQGGGGQGGGGQGGGGDCPKCPAPEMLGGPSVFIFFPKPKDTLLIARTPEVTCVVVD	120
SEQ ID NO: 26	GGGQGGGGQGGGGQGGGGDCPKCPAPEMLGGPSVFIFFPKPKDTLLIARTPEVTCVVVD	119
SEQ ID NO: 57	GGGQGGGGQGGGGQGGGGDCPKCPAPEMLGGPSVFIFFPKPKDTLLIARTPEVTCVVVD ** ,*****	119
SEQ ID NO: 43	LDPEDPEVQISWFVDGKQMOTAKTQPREEQFGTYRVVSVLP IGHQDWLKGKQFTCKVNN	167
SEQ ID NO: 55	LDPEDPEVQISWFVDGKQMOTAKTQPREEQFNGTYRVVSVLP IGHQDWLKGKQFTCKVNN	179
SEQ ID NO: 56	LDPEDPEVQISWFVDGKQMOTAKTQPREEQFNGTYRVVSVLP IGHQDWLKGKQFTCKVNN	180
SEQ ID NO: 28	LDPEDPEVQISWFVDGKQMOTAKTQPREEQFNGTYRVVSVLP IGHQDWLKGKQFTCKVNN	180
SEQ ID NO: 26	LDPEDPEVQISWFVDGKQMOTAKTQPREEQFNGTYRVVSVLP IGHQDWLKGKQFTCKVNN	179
SEQ ID NO: 57	LDPEDPEVQISWFVDGKQMOTAKTQPREEQFNGTYRVVSVLP IGHQDWLKGKQFTCKVNN ***** ,*****	179
SEQ ID NO: 43	KALPSPIERTISKARGQAHQPSVYVLPSSREELSKNTVSLTCLIKDFFPPDIDVEWQSNG	227
SEQ ID NO: 55	KALPSPIERTISKARGQAHQPSVYVLPSSREELSKNTVSLTCLIKDFFPPDIDVEWQSNG	239
SEQ ID NO: 56	KALPSPIERTISKARGQAHQPSVYVLPSSREELSKNTVSLTCLIKDFFPPDIDVEWQSNG	240
SEQ ID NO: 28	KALPSPIERTISKARGQAHQPSVYVLPSSREELSKNTVSLTCLIKDFFPPDIDVEWQSNG	240
SEQ ID NO: 26	KALPSPIERTISKARGQAHQPSVYVLPSSREELSKNTVSLTCLIKDFFPPDIDVEWQSNG	239
SEQ ID NO: 57	KALPSPIERTISKARGQAHQPSVYVLPSSREELSKNTVSLTCLIKDFFPPDIDVEWQSNG *****	239
SEQ ID NO: 43	QQEPESKYRTTPPQLDEDGSYFLYSKLSVDKSRWQRGDTFICAVMHEALHNHYTQESLSH	287
SEQ ID NO: 55	QQEPESKYRTTPPQLDEDGSYFLYSKLSVDKSRWQRGDTFICAVMHEALHNHYTQESLSH	299
SEQ ID NO: 56	QQEPESKYRTTPPQLDEDGSYFLYSKLSVDKSRWQRGDTFICAVMHEALHNHYTQESLSH	300
SEQ ID NO: 28	QQEPESKYRTTPPQLDEDGSYFLYSKLSVDKSRWQRGDTFICAVMHEALHNHYTQESLSH	300
SEQ ID NO: 26	QQEPESKYRTTPPQLDEDGSYFLYSKLSVDKSRWQRGDTFICAVMHEALHNHYTQESLSH	299
SEQ ID NO: 57	QQEPESKYRTTPPQLDEDGSYFLYSKLSVDKSRWQRGDTFICAVMHEALHNHYTQESLSH *****	299
SEQ ID NO: 43	SPG 290	
SEQ ID NO: 55	SPG 302	
SEQ ID NO: 56	SPG 303	
SEQ ID NO: 28	SPG 303	
SEQ ID NO: 26	SPG 302	
SEQ ID NO: 57	SPG 302 ***	

FIG. 16

14/30

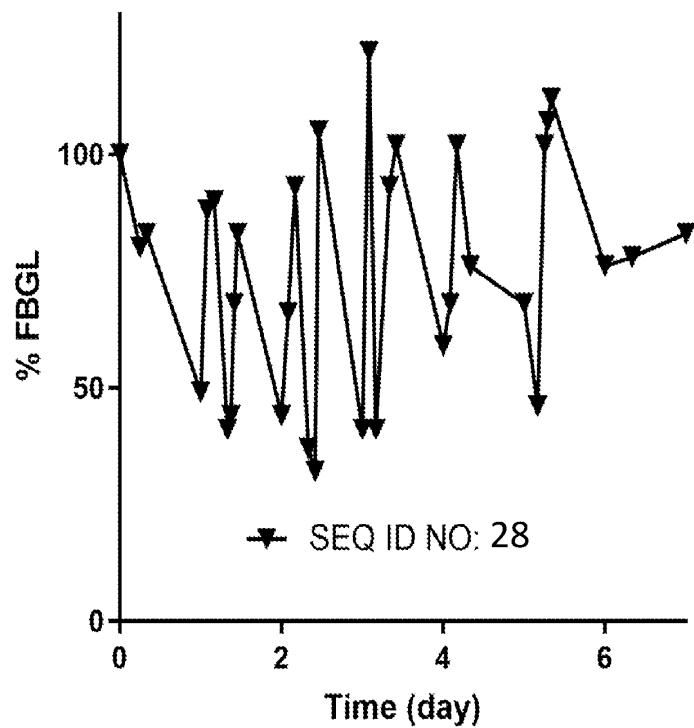


FIG. 17

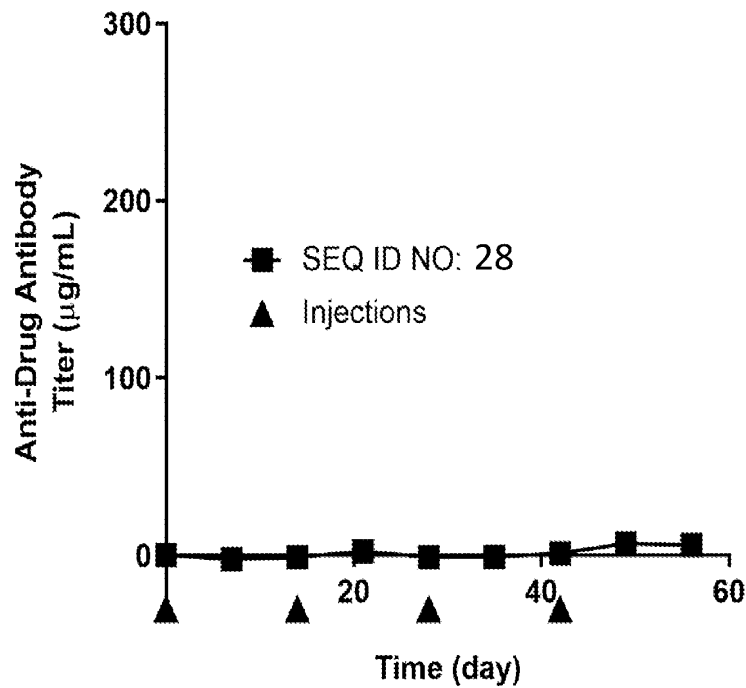


FIG. 18

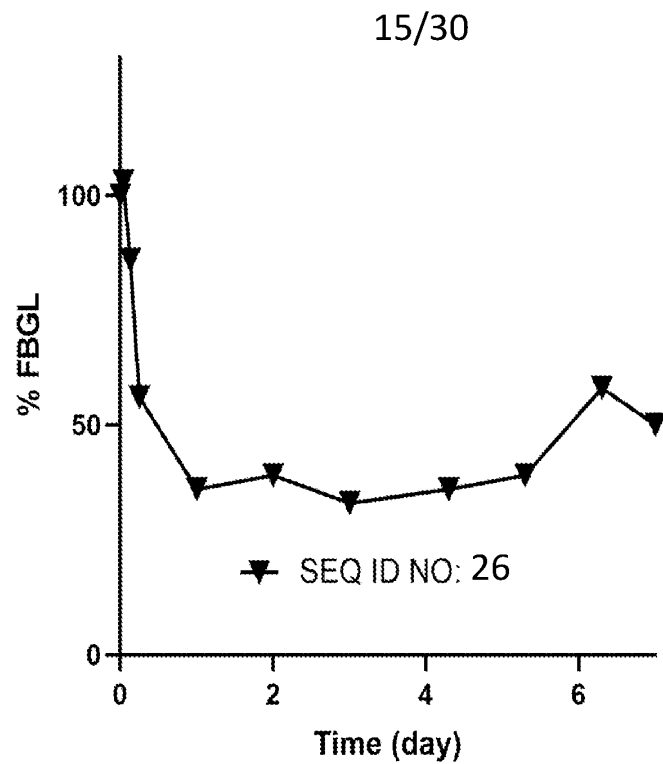


FIG. 19

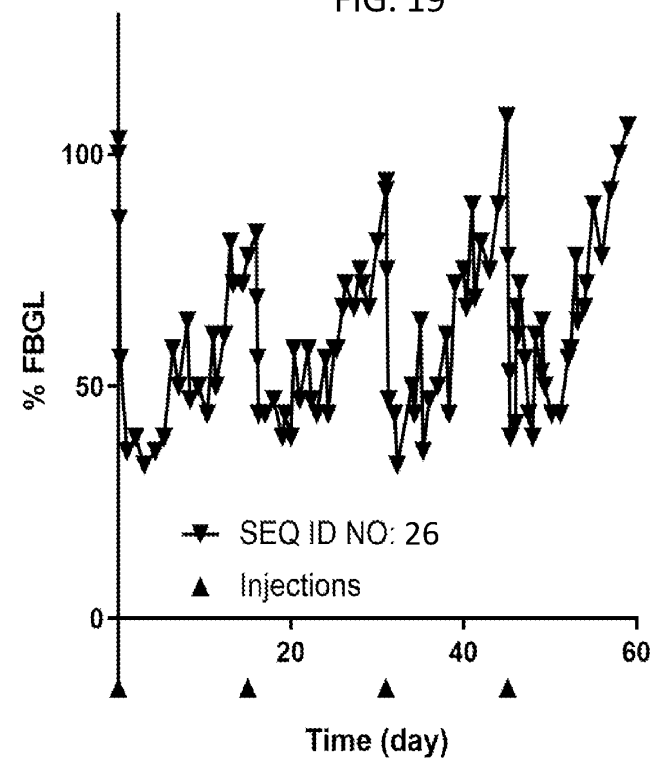


FIG. 20

16/30

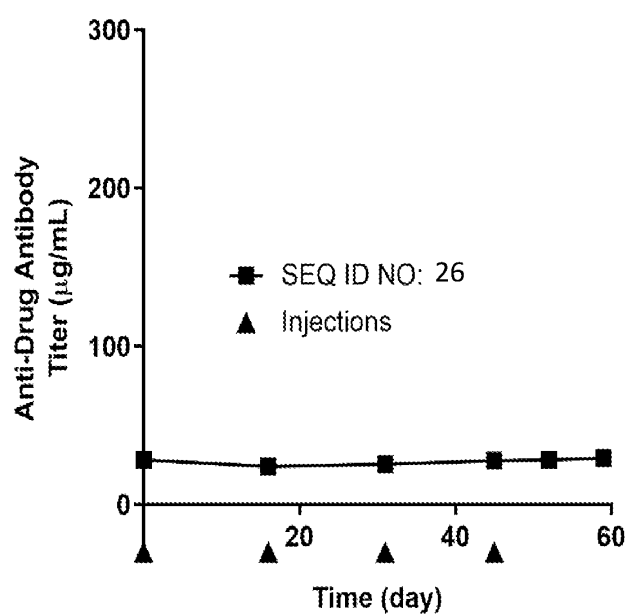


FIG. 21

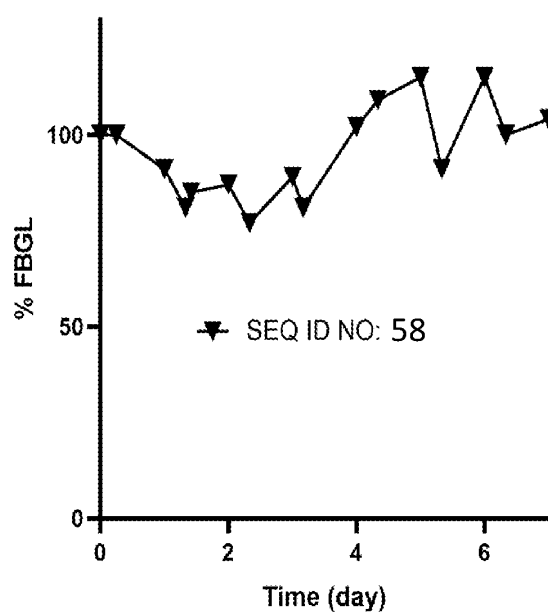


FIG. 22

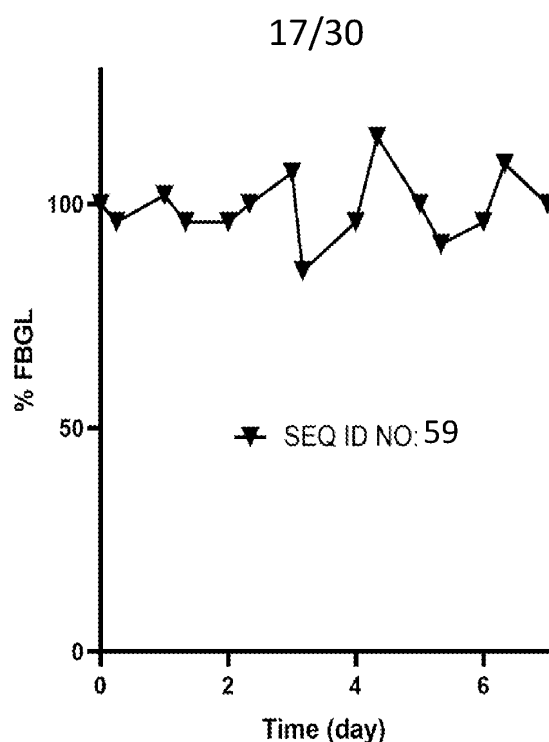


FIG. 23

SEQ ID NO: 61	FVNQHLCGSHLVEALELVCGERGPHYGGGGGGGGGGGIVEQCCTSTCSLDQLENYCGGG	60
SEQ ID NO: 62	FVNQHLCGSHLVEALELVCGERGPHYGGGGGGGGGGGIVEQCCTSTCSLDQLENYCGGG	60

SEQ ID NO: 61	GGQGGGGQGGGGQGGGGDCPKCPAPEMLGGPSVFIFPPKPKDTLLIARTPEVTCVVVAL	120
SEQ ID NO: 62	GGQGGGGQGGGGQGGGGDCPKCPAPEMLGGPSVFIFPPKPKDTLLIARTPEVTCVVVDL	120
***** *		
SEQ ID NO: 61	DPEDPEVQISWFDGKQMQTAKTQPREEQFSGTYRVVSVLPIGHQDWLKGKQFTCKVNNK	180
SEQ ID NO: 62	DPEDPEVQISWFDGKQMQTAKTQPREEQFSGTYRVVSVLPIGHQDWLKGKQFTCKVNNK	180

SEQ ID NO: 61	ALPSPPIERTISKARGQAHQPSVYVLPPSREELSKNTVSLTCLIKDFFPPDIDVEWQSNQ	240
SEQ ID NO: 62	ALPSPPIERTISKARGQAHQPSVYVLPPSREELSKNTVSLTCLIKDFFPPDIDVEWQSNQ	240

SEQ ID NO: 61	QEPESKYRTTPPQLDEDGSYFLYSKLSVDKSRWQRGDTFICAVMHEALHNHYTQESLSHS	300
SEQ ID NO: 62	QEPESKYRTTPPQLDEDGSYFLYSKLSVDKSRWQRGDTFICAVMHEALHNHYTQESLSHS	300

SEQ ID NO: 61	PG 302	
SEQ ID NO: 62	PG 302	
**		

FIG. 24

18/30

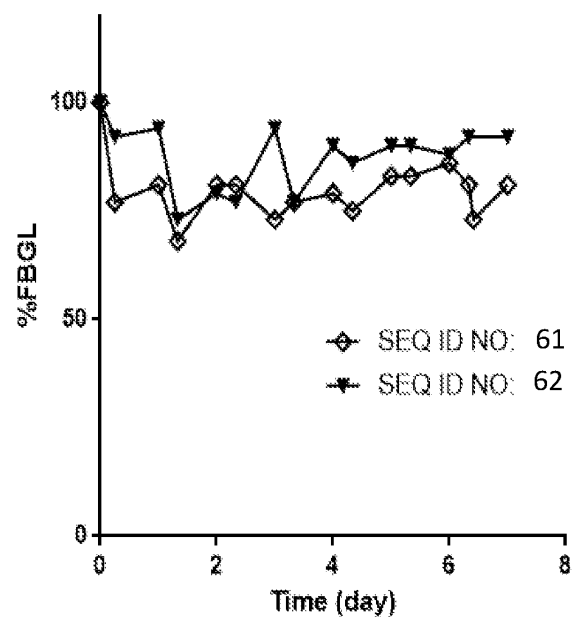


FIG. 25

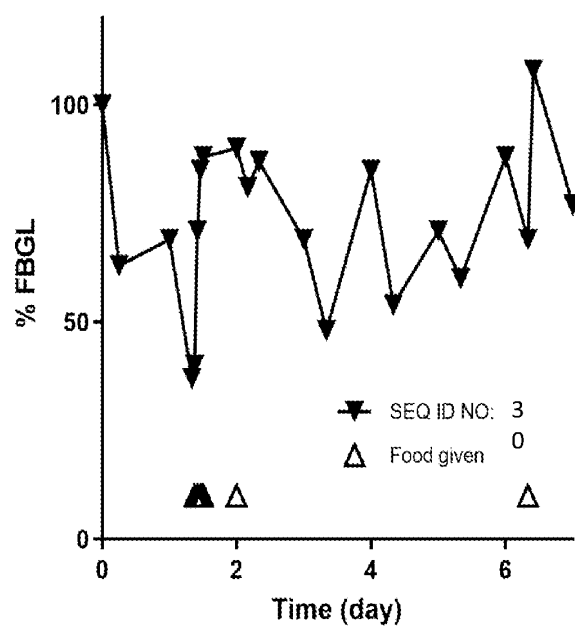


FIG. 26

19/30

SEQ ID NO: 76	FVNQHLCGSHLVEALELVCGERGFHYGGGGGGGGGGGIVEQCCTSTCSLDQLENYCGGG	60
SEQ ID NO: 91	FVNQHLCGSHLVEALELVCGERGFHYGGGGGGGGGGGIVEQCCTSTCSLDQLENYCGGG	60
SEQ ID NO: 78	FVNQHLCGSHLVEALALVCGERGFHYGGGGGGGGGGGIVEQCCTSTCSLDQLENYCGGG	60

SEQ ID NO: 76	GGQGGGGQGGGGQGGGGGDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCV	120
SEQ ID NO: 91	GGQGGGGQGGGGQGGGGGDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCV	120
SEQ ID NO: 78	GGQGGGGQGGGGQGGGGGDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCV	120

SEQ ID NO: 76	VVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCK	180
SEQ ID NO: 91	VVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYSSTYRVVSVLTVLHQDWLNGKEYKCK	180
SEQ ID NO: 78	VVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYSSTYRVVSVLTVLHQDWLNGKEYKCK	180

SEQ ID NO: 76	VSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE	240
SEQ ID NO: 91	VSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE	240
SEQ ID NO: 78	VSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE	240

SEQ ID NO: 76	SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVSCSMHEALHNHYTQKSLS	300
SEQ ID NO: 91	SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVSCSMHEALHNHYTQKSLS	300
SEQ ID NO: 78	SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVSCSMHEALHNHYTQKSLS	300

SEQ ID NO: 76	LSPG	304
SEQ ID NO: 91	LSPG	304
SEQ ID NO: 78	LSPG	304

FIG. 27

20/30

SEQ ID NO: 75	FVNQHLCGSHLVEALELVCGERGPHYGGGGGSGGGGIVEQCCTSTCSLDQLENYCGGG	60
SEQ ID NO: 76	FVNQHLCGSHLVEALELVCGERGPHYGGGGGSGGGGIVEQCCTSTCSLDQLENYCGGG	60
SEQ ID NO: 91	FVNQHLCGSHLVEALELVCGERGPHYGGGGGSGGGGIVEQCCTSTCSLDQLENYCGGG	60
SEQ ID NO: 92	FVNQHLCGSHLVEALELVCGERGPHYGGGGGSGGGGIVEQCCTSTCSLDQLENYCGGG	60
SEQ ID NO: 93	FVNQHLCGSHLVEALELVCGERGPHYGGGGGSGGGGIVEQCCTSTCSLDQLENYCGGG	60
SEQ ID NO: 94	FVNQHLCGSHLVEALELVCGERGPHYGGGGGSGGGGIVEQCCTSTCSLDQLENYCGGG	60
SEQ ID NO: 95	FVNQHLCGSHLVEALELVCGERGPHYGGGGGSGGGGIVEQCCTSTCSLDQLENYCGGG *****	60
SEQ ID NO: 75	GGQGGGGQGGGGQGGGGG---ECPPCPAPPV-AGPSVFLFPPKPKDTLMISRTPEVTCV	115
SEQ ID NO: 76	GGQGGGGQGGGGQGGGGGDKHTCPPCPAPPELLGGPSVFLFPPKPKDTLMISRTPEVTCV	120
SEQ ID NO: 91	GGQGGGGQGGGGQGGGGGDKHTCPPCPAPPELLGGPSVFLFPPKPKDTLMISRTPEVTCV	120
SEQ ID NO: 92	GGQGGGGQGGGGQGGGGGDKHTCPPCPAPPELLGGPSVFLFPPKPKDTLMISRTPEVTCV	120
SEQ ID NO: 93	GGQGGGGQGGGGQGGGGGDKHTCPPCPAPPELLGGPSVFLFPPKPKDTLMISRTPEVTCV	120
SEQ ID NO: 94	GGQGGGGQGGGGQGGGGGDKHTCPPCPAPPELLGGPSVFLFPPKPKDTLMISRTPEVTCV	120
SEQ ID NO: 95	GGQGGGGQGGGGQGGGGGDKHTCPPCPAPPELLGGPSVFLFPPKPKDTLMISRTPEVTCV ***** : *****	120
SEQ ID NO: 75	VVDVSHEDPEVQFNWYVDGVEVHNAKTKPREEQFNSTFRVSVLTVVHQDNLNGKEYKCK	175
SEQ ID NO: 76	VVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSYRVS SVLTVLHQDNLNGKEYKCK	180
SEQ ID NO: 91	VVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYSSYRVS SVLTVLHQDNLNGKEYKCK	180
SEQ ID NO: 92	VVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYDSYRVS SVLTVLHQDNLNGKEYKCK	180
SEQ ID NO: 93	VVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYASYRVS SVLTVLHQDNLNGKEYKCK	180
SEQ ID NO: 94	VVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYRSYRVS SVLTVLHQDNLNGKEYKCK	180
SEQ ID NO: 95	VVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYQSYRVS SVLTVLHQDNLNGKEYKCK ***** : ***** : ** : ***** : *****	180
SEQ ID NO: 75	VSNKGLPAPIEKTISKTKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWE	235
SEQ ID NO: 76	VSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE	240
SEQ ID NO: 91	VSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE	240
SEQ ID NO: 92	VSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE	240
SEQ ID NO: 93	VSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE	240
SEQ ID NO: 94	VSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE	240
SEQ ID NO: 95	VSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE **** : ***** : ***** : * : *****	240
SEQ ID NO: 75	SNGQPENNYKTTPPMLDSGDSFFLYSKLTVDKSRWQQGNVSCSVMHEALHNHYTQKSLS	295
SEQ ID NO: 76	SNGQPENNYKTTPPVLDSDGDSFFLYSKLTVDKSRWQQGNVSCSVMHEALHNHYTQKSLS	300
SEQ ID NO: 91	SNGQPENNYKTTPPVLDSDGDSFFLYSKLTVDKSRWQQGNVSCSVMHEALHNHYTQKSLS	300
SEQ ID NO: 92	SNGQPENNYKTTPPVLDSDGDSFFLYSKLTVDKSRWQQGNVSCSVMHEALHNHYTQKSLS	300
SEQ ID NO: 93	SNGQPENNYKTTPPVLDSDGDSFFLYSKLTVDKSRWQQGNVSCSVMHEALHNHYTQKSLS	300
SEQ ID NO: 94	SNGQPENNYKTTPPVLDSDGDSFFLYSKLTVDKSRWQQGNVSCSVMHEALHNHYTQKSLS	300
SEQ ID NO: 95	SNGQPENNYKTTPPVLDSDGDSFFLYSKLTVDKSRWQQGNVSCSVMHEALHNHYTQKSLS ***** : *****	300
SEQ ID NO: 75	LSPG 299	
SEQ ID NO: 76	LSPG 304	
SEQ ID NO: 91	LSPG 304	
SEQ ID NO: 92	LSPG 304	
SEQ ID NO: 93	LSPG 304	
SEQ ID NO: 94	LSPG 304	
SEQ ID NO: 95	LSPG 304 ****	

FIG. 28

21/30

SEQ ID NO: 76	FVNQHLCGSHLVEALALVCGERGFHYGGGGGSGGGGIVEQCCTSTCSLDQLENYCGGG	60
SEQ ID NO: 78	FVNQHLCGSHLVEALALVCGERGFHYGGGGGSGGGGIVEQCCTSTCSLDQLENYCGGG	60
SEQ ID NO: 80	FVNQHLCGSHLVEALALVCGERGFHYGGGGGSGGGGIVEQCCTSTCSLDQLENYCGGG	60
SEQ ID NO: 82	FVNQHLCGSHLVEALALVCGERGFHYGGGGGSGGGGIVEQCCTSTCSLDQLENYCGGG	60
SEQ ID NO: 84	FVNQHLCGSHLVEALALVCGERGFHYGGGGGSGGGGIVEQCCTSTCSLDQLENYCGGG	60
SEQ ID NO: 86	FVNQHLCGSHLVEALALVCGERGFHYGGGGGSGGGGIVEQCCTSTCSLDQLENYCGGG *****	60
SEQ ID NO: 76	GGQGGGQGGGQGGGGDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCV	120
SEQ ID NO: 78	GGQGGGQGGGQGGGGDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCV	120
SEQ ID NO: 80	GGQGGGQGGGQGGGGDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCV	120
SEQ ID NO: 82	GGQGGGQGGGQGGGGDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCV	120
SEQ ID NO: 84	GGQGGGQGGGQGGGGDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCV	120
SEQ ID NO: 86	GGQGGGQGGGQGGGGDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCV *****	120
SEQ ID NO: 76	VVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCK	180
SEQ ID NO: 78	VVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYSSTYRVVSVLTVLHQDWLNGKEYKCK	180
SEQ ID NO: 80	VVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYDSTYRVVSVLTVLHQDWLNGKEYKCK	180
SEQ ID NO: 82	VVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYASTYRVVSVLTVLHQDWLNGKEYKCK	180
SEQ ID NO: 84	VVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYRSTYRVVSVLTVLHQDWLNGKEYKCK	180
SEQ ID NO: 86	VVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYSTYRVVSVLTVLHQDWLNGKEYKCK *****	180
SEQ ID NO: 76	VSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE	240
SEQ ID NO: 78	VSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE	240
SEQ ID NO: 80	VSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE	240
SEQ ID NO: 82	VSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE	240
SEQ ID NO: 84	VSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE	240
SEQ ID NO: 86	VSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE *****	240
SEQ ID NO: 76	SNGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSQSVMEALHNHYTQKSLS	300
SEQ ID NO: 78	SNGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSQSVMEALHNHYTQKSLS	300
SEQ ID NO: 80	SNGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSQSVMEALHNHYTQKSLS	300
SEQ ID NO: 82	SNGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSQSVMEALHNHYTQKSLS	300
SEQ ID NO: 84	SNGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSQSVMEALHNHYTQKSLS	300
SEQ ID NO: 86	SNGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSQSVMEALHNHYTQKSLS *****	300
SEQ ID NO: 76	LSPG 304	
SEQ ID NO: 78	LSPG 304	
SEQ ID NO: 80	LSPG 304	
SEQ ID NO: 82	LSPG 304	
SEQ ID NO: 84	LSPG 304	
SEQ ID NO: 86	LSPG 304 ****	

FIG. 29

22/30

SEQ ID NO: 87	FVNQHLCGSHLVEALALVCGERGFHYGGGGGSGGGGGIVEQCCTSTCSDLQLENYCGGG	60
SEQ ID NO: 96	FVNQHLCGSHLVEALALVCGERGFHYGGGGGSGGGGGIVEQCCTSTCSDLQLENYCGGG	60
SEQ ID NO: 78	FVNQHLCGSHLVEALALVCGERGFHYGGGGGSGGGGGIVEQCCTSTCSDLQLENYCGGG	60
SEQ ID NO: 97	FVNQHLCGSHLVEALALVCGERGFHYGGGGGSGGGGGIVEQCCTSTCSDLQLENYCGGG	60
SEQ ID NO: 89	FVNQHLCGSHLVEALALVCGERGFHYGGGGGSGGGGGIVEQCCTSTCSDLQLENYCGGG	60
SEQ ID NO: 98	FVNQHLCGSHLVEALALVCGERGFHYGGGGGSGGGGGIVEQCCTSTCSDLQLENYCD-- *****	58
SEQ ID NO: 87	GGAGGGGAGGGGA-----GGGGGDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRT	115
SEQ ID NO: 96	GGQGGGGQGGGGQGGGGGQGGGGDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRT	120
SEQ ID NO: 78	GGQGGGGQGGGGQGG-----GGGDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRT	115
SEQ ID NO: 97	G-----QGGGDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRT	103
SEQ ID NO: 89	G-----AGGGGDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRT	103
SEQ ID NO: 98	-----KTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRT *****	94
SEQ ID NO: 87	EVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYSSTYRVVSVLTVLHQDWLNGK	175
SEQ ID NO: 96	EVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYSSTYRVVSVLTVLHQDWLNGK	180
SEQ ID NO: 78	EVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYSSTYRVVSVLTVLHQDWLNGK	175
SEQ ID NO: 97	EVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYSSTYRVVSVLTVLHQDWLNGK	163
SEQ ID NO: 89	EVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYSSTYRVVSVLTVLHQDWLNGK	163
SEQ ID NO: 98	EVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYSSTYRVVSVLTVLHQDWLNGK *****	154
SEQ ID NO: 87	EYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDI	235
SEQ ID NO: 96	EYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDI	240
SEQ ID NO: 78	EYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDI	235
SEQ ID NO: 97	EYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDI	223
SEQ ID NO: 89	EYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDI	223
SEQ ID NO: 98	EYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDI *****	214
SEQ ID NO: 87	AVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVSCSVMHEALHNHYT	295
SEQ ID NO: 96	AVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVSCSVMHEALHNHYT	300
SEQ ID NO: 78	AVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVSCSVMHEALHNHYT	295
SEQ ID NO: 97	AVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVSCSVMHEALHNHYT	283
SEQ ID NO: 89	AVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVSCSVMHEALHNHYT	283
SEQ ID NO: 98	AVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVSCSVMHEALHNHYT *****	274
SEQ ID NO: 87	QKSLSLSPG	304
SEQ ID NO: 96	QKSLSLSPG	309
SEQ ID NO: 78	QKSLSLSPG	304
SEQ ID NO: 97	QKSLSLSPG	292
SEQ ID NO: 89	QKSLSLSPG	292
SEQ ID NO: 98	QKSLSLSPG *****	283

FIG. 30

23/30

SEQ ID NO: 79 atggaatggagctgggtctttctcttcttctgtcagtaacgactgggtgtccactccttc
SEQ ID NO: 78 M E W S W V F L F F L S V T T G V H S F
gtgaaccagcacctgtgcggtcccacctgggtggaagctctggcactcgtgtgcggcgag
V N Q H L C G S H L V E A L A L V C G E
cggggcttccactacgggggtggcggaggaggttctggtggcggcggaggcatcgtggaa
R G F H Y G G G G G S G G G G G I V E
cagtgtgtcacctccacctgtccctggaccagctggaaaactactgcggtggcggaggt
Q C C T S T C S L D Q L E N Y C G G G G
gggtcaaggaggcgggtggacaggggtggaggtgggcaggaggaggcgggggagacaaaact
G Q G G G G Q G G G G Q G G G G G D K T
cacacatgcccaccgtgcccagcacctgaactcctggggggaccgtcagtccttctcttc
H T C P P C P A P E L L G G P S V F L F
ccccaaaacccaaggacaccctcatgatctcccggaaccctgaggtcacatgcgtgggtg
P P K P K D T L M I S R T P E V T C V V
gtggacgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcgtggag
V D V S H E D P E V K F N W Y V D G V E
gtgcataatgccaagacaaagccgcgggaggagcagtacagcagcacgtaccgtgtggtc
V H N A K T K P R E E Q Y S S T Y R V V
agcgtcctcaccgtcctgcaccaggactggctgaatggcaaggagtacaagtgaaggtc
S V L T V L H Q D W L N G K E Y K C K V
tccaacaaagccctcccagcccccatcgagaaaaccatctccaaagccaaagggcagccc
S N K A L P A P I E K T I S K A K G Q P
cgagaaccacaggtgtacaccctgcccccatcccgggatgagctgaccaagaaccaggtc
R E P Q V Y T L P P S R D E L T K N Q V
agcctgacctgcctgggtcaaaggcttctatcccagcgacatcgccgtggagtgggagagc
S L T C L V K G F Y P S D I A V E W E S
aatgggcagccggagaaactacaagaccacgcctcccgtgctggactccgacggctcc
N G Q P E N N Y K T T P P V L D S D G S
ttcttctctacagcaagctcaccgtggacaagagcaggtggcagcaggggaacgtcttc
F F L Y S K L T V D K S R W Q Q G N V F
tcatgtccgtgatgcatgaggtctgcacaaccactacacgcagaagagcctctccctg
S C S V M H E A L H N H Y T Q K S L S L
tctccgggttag
S P G -

FIG. 31

24/30

SEQ ID NO: 81 atggaatggagctgggtctttctcttcttctgtcagtaacgactgggtgtccactccttc
SEQ ID NO: 80 M E W S W V F L F F L S V T T G V H S F
gtgaaccagcacctgtgcggctcccacctggtggaagctctggcactcgtgtgcggcgag
V N Q H L C G S H L V E A L A L V C G E
cggggcttccactacgggggtggcggaggaggttctggtggcggcggaggcatcgtggaa
R G F H Y G G G G G S G G G G G I V E
cagtgtgtcacctccacctgtccctggaccagctggaaaactactgcggtggcggagggt
Q C C T S T C S L D Q L E N Y C G G G G
ggtcaaggaggcgggtggacaggggtggagggtgggcaggaggaggcgggggagacaaaact
G Q G G G G Q G G G G Q G G G G G D K T
cacacatgccaccgtgccagcacctgaactcctggggggaccgtcagttcttctcttc
H T C P P C P A P E L L G G P S V F L F
ccccaaaaccaaggacaccctcatgatctcccggaaccctgaggtcacatgcgtggtg
P P K P K D T L M I S R T P E V T C V V
gtggacgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcgtggag
V D V S H E D P E V K F N W Y V D G V E
gtgcataatgccaagacaaagccgcgggaggagcagtagcacagcacgtaccgtgtggtc
V H N A K T K P R E E Q Y D S T Y R V V
agcgtcctcaccgtcctgcaccaggactggctgaatggcaaggagtacaagtgaaggctc
S V L T V L H Q D W L N G K E Y K C K V
tccaacaaagccctcccagcccccatcgagaaaaccatctccaaagccaaagggcagccc
S N K A L P A P I E K T I S K A K G Q P
cgagaaccacaggtgtacaccctgcccccatcccggtatgagctgaccaagaaccaggtc
R E P Q V Y T L P P S R D E L T K N Q V
agcctgacctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtgggagagc
S L T C L V K G F Y P S D I A V E W E S
aatgggcagccggagaacaactacaagaccacgcctcccgtgctggactccgacgggtcc
N G Q P E N N Y K T T P P V L D S D G S
ttcttctctacagcaagctcaccgtggacaagagcaggtggcagcaggggaacgtcttc
F F L Y S K L T V D K S R W Q Q G N V F
tcatgtccgtgatgcatgaggctctgcacaaccactacacgcagaagagcctctccctg
S C S V M H E A L H N H Y T Q K S L S L
tctccgggttag
S P G -

FIG. 32

25/30

SEQ ID NO: 83 atggaatggagctgggtctttctcttcttctgtcagtaacgactgggtgtccactccttc
 SEQ ID NO: 82 M E W S W V F L F F L S V T T G V H S F
 gtgaaccagcacctgtgcggctccacctgggtggaagctctggcactcgtgtgcggcgag
 V N Q H L C G S H L V E A L A L V C G E
 cggggcttccactacgggggtggcggaggaggttctgggtggcggcgaggcatcgtggaa
 R G F H Y G G G G G S G G G G G I V E
 cagtgtgtcacctccacctgtccctggaccagctggaaaactactgcggtggcggaggt
 Q C C T S T C S L D Q L E N Y C G G G G
 ggtcaaggaggcgggtggacaggggtggaggtggcaggaggaggcgggggagacaaaact
 G Q G G G G Q G G G G G G G D K T
 cacacatgcccacgtgcccagcacctgaactcctggggggaccgtcagtccttctcttc
 H T C P P C P A P E L L G G P S V F L F
 cccccaaaaccaaggacaccctcatgatctcccggaccctgaggtcacatgcgtgggtg
 P P K P K D T L M I S R T P E V T C V V
 gtggacgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcgtggag
 V D V S H E D P E V K F N W Y V D G V E
 gtgcataatgccaagacaaagccgcgggaggagcagtagccagcacgtaccgtgtggtc
 V H N A K T K P R E E Q Y A S T Y R V V
 agcgtcctcaccgtcctgcaccaggactggctgaatggcaaggagtacaagtgaaggtc
 S V L T V L H Q D W L N G K E Y K C K V
 tccaacaaagccctcccagcccccatcgagaaaaccatctccaaagccaaagggcagccc
 S N K A L P A P I E K T I S K A K G Q P
 cgagaaccacaggtgtacaccctgcccccatcccgggatgagctgaccaagaaccaggtc
 R E P Q V Y T L P P S R D E L T K N Q V
 agcctgacctgcctgggtcaaaggcttctatcccagcgacatcgccgtggagtgggagagc
 S L T C L V K G F Y P S D I A V E W E S
 aatgggcagccggagaaactacaagaccacgcctcccgtgctggactccgacggctcc
 N G Q P E N N Y K T T P P V L D S D G S
 ttcttctctacagcaagctcaccgtggacaagagcaggtggcagcaggggaacgtcttc
 F F L Y S K L T V D K S R W Q Q G N V F
 tcatgtccgtgatgcatgaggctctgcacaaccactacacgcagaagagcctctccctg
 S C S V M H E A L H N H Y T Q K S L S L
 tctccgggttag
 S P G -

FIG. 33

26/30

SEQ ID NO: 85 atggaatggagctgggtctttctcttcttctcgtcagtaacgactgggtgtccactccttc
 SEQ ID NO: 84 M E W S W V F L F F L S V T T G V H S F
 gtgaaccagcacctgtgcggtcccacctgggtggaagctctggcactcgtgtgcggcgag
 V N Q H L C G S H L V E A L A L V C G E
 cggggcttccactacgggggtggcggaggaggttctgggtggcggcggaggcatcgtggaa
 R G F H Y G G G G G S G G G G G I V E
 cagtgtgtcacctccacctgtccctggaccagctggaaaactactgcggtggcggaggt
 Q C C T S T C S L D Q L E N Y C G G G G
 ggtcaaggaggcgggtggacagggtggaggtgggcagggaggaggcgggggagacaaaact
 G Q G G G G Q G G G G Q G G G G G D K T
 cacacatgccaccgtgccacgacactgaactcctggggggaccgtcagttcttctcttc
 H T C P P C P A P E L L G G P S V F L F
 ccccaaaaaccaaggacaccctcatgatctcccggaccctgaggtcacatgcgtgggtg
 P P K P K D T L M I S R T P E V T C V V
 gtggacgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcgtggag
 V D V S H E D P E V K F N W Y V D G V E
 gtgcataatgccaagacaaagccgcgaggagcagtacagaagcacgtaccgtgtggtc
 V H N A K T K P R E E Q Y R S T Y R V V
 agcgtcctcaccgtcctgcaccaggactggctgaatggcaaggagtacaagtgaagggtc
 S V L T V L H Q D W L N G K E Y K C K V
 tccaacaaagccctcccagcccccatcgagaaaaccatctccaaagccaaagggcagccc
 S N K A L P A P I E K T I S K A K G Q P
 cgagaaccacaggtgtacaccctgcccccatcccgggatgagctgaccaagaaccaggtc
 R E P Q V Y T L P P S R D E L T K N Q V
 agcctgacctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtgggagagc
 S L T C L V K G F Y P S D I A V E W E S
 aatgggcagccggagaacaactacaagaccacgcctcccgtgctggactccgacggctcc
 N G Q P E N N Y K T T P P V L D S D G S
 ttcttctctctacagcaagctcaccgtggacaagagcaggtggcagcaggggaacgtcttc
 F F L Y S K L T V D K S R W Q Q G N V F
 tcatgtctccgtgatgcatgaggctctgcacaaccactacacgcagaagagcctctccctg
 S C S V M H E A L H N H Y T Q K S L S L
 tctccgggttag
 S P G -

FIG. 34

27/30

SEQ ID NO: 88 atggaatggagctgggtctttctcttcttctgtcagtaacgactgggtgtccactccttc
SEQ ID NO: 87 M E W S W V F L F F L S V T T G V H S F
gtgaaccagcacctgtgcggctcccacctggtggaagctctggcactcgtgtgcggcgag
V N Q H L C G S H L V E A L A L V C G E
cggggcttccactacgggggtggcgaggaggttctggtggcgggcgaggcatcgtggaa
R G F H Y G G G G G S G G G G G I V E
cagtgtgcacctccacctgctccctggaccagctggaaaactactgcggtggcgagggt
Q C C T S T C S L D Q L E N Y C G G G G
ggtgcaggaggcggtggagccggtggaggtggggctggaggaggcgggggagacaaaact
G A G G G G A G G G G A G G G G D K T
cacacatgccaccgtgccagcacctgaactcctggggggaccgtcagtcctcctcttc
H T C P P C P A P E L L G G P S V F L F
ccccaaaacccaaggacaccctcatgatctcccggaaccctgaggtcacatgcgtgggtg
P P K P K D T L M I S R T P E V T C V V
gtggacgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcggtggag
V D V S H E D P E V K F N W Y V D G V E
gtgcataatgccaagacaaagccgcggggaggagcagtacagcagcacgtaccgtgtggtc
V H N A K T K P R E E Q Y S S T Y R V V
agcgtcctcaccgtcctgcaccaggactgggtgaatggcaaggagtacaagtgaagggtc
S V L T V L H Q D W L N G K E Y K C K V
tccaacaaagccctcccagcccccatcgagaaaaccatctccaaagccaaagggcagccc
S N K A L P A P I E K T I S K A K G Q P
cgagaaccacaggtgtacaccctgcccccatcccggtatgagctgaccaagaaccaggtc
R E P Q V Y T L P P S R D E L T K N Q V
agcctgacctgcctgggtcaaaggcttctatcccagcgacatcgccgtggagtgggagagc
S L T C L V K G F Y P S D I A V E W E S
aatgggcagccggagaaactacaagaccagcctcccgtgctggactccgacgggtcc
N G Q P E N N Y K T T P P V L D S D G S
ttcttcctctacagcaagctcaccgtggacaagagcaggtggcagcaggggaacgtcttc
F F L Y S K L T V D K S R W Q Q G N V F
tcatgctccgtgatgcatgaggctctgcacaaccactacacgcagaagagcctctccctg
S C S V M H E A L H N H Y T Q K S L S L
tctccgggttag
S P G -

FIG. 35

28/30

SEQ ID NO: 90 atggaatggagctgggtctttctcttcttctgtcagtaacgactgggtgtccactccttc
SEQ ID NO: 89 M E W S W V F L F F L S V T T G V H S F
gtgaaccagcacctgtgcggctcccacctggtggaagctctggcactcgtgtgcggcgag
V N Q H L C G S H L V E A L A L V C G E
cggggcttccactacgggggtggcgaggaggttctggtggcgggcgaggcatcgtggaa
R G F H Y G G G G G S G G G G G I V E
cagtgtgcacctccacctgctccctggaccagctggaaaactactgcggtggcgagggt
Q C C T S T C S L D Q L E N Y C G G G G
gccggaggcgggggagacaaaactcacacatgccaccgtgccagcacctgaactcctg
A G G G G D K T H T C P P C P A P E L L
gggggaccgtcagttctctcttcccccaaaacccaaggacaccctcatgatctcccg
G G P S V F L F P P K P K D T L M I S R
acccctgaggtcacatgcgtggtggtggacgtgagccacgaagaccctgaggtcaagttc
T P E V T C V V V D V S H E D P E V K F
aactggtacgtggacggcgtggaggtgcataatgccaagacaaagccgcgggaggagcag
N W Y V D G V E V H N A K T K P R E E Q
tacagcagcacgtaccgtgtggtcagcgtcctcaccgtcctgcaccaggactggctgaat
Y S S T Y R V V S V L T V L H Q D W L N
ggcaaggagtacaagtgaaggtctccaacaaagccctcccagcccccatcgagaaaacc
G K E Y K C K V S N K A L P A P I E K T
atctccaaagccaaagggcagccccgagaaccacaggtgtacaccctgcccccatcccg
I S K A K G Q P R E P Q V Y T L P P S R
gatgagctgaccaagaaccaggtcagcctgacctgctggtcaaaggcttctatcccagc
D E L T K N Q V S L T C L V K G F Y P S
gacatcgccgtggagtgggagagcaatgggcagccggagaacaactacaagaccacgct
D I A V E W E S N G Q P E N N Y K T T P
cccgtgctggactccgacggctccttcttctctacagcaagctcaccgtggacaagagc
P V L D S D G S F F L Y S K L T V D K S
aggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctctgcacaaccac
R W Q Q G N V F S C S V M H E A L H N H
tacacgcagaagagcctctccctgtctccgggttag
Y T Q K S L S L S P G -

FIG. 36

29/30

SEQ ID NO: 100 atggaatggagctgggtctttctcttcttctgtcagtaacgactgggtgtccactccttc
 SEQ ID NO: 86 M E W S W V F L F F L S V T T G V H S F
 gtgaaccagcacctgtgcggtcccacctgggtggaagctctggcactcgtgtgcggcgag
 V N Q H L C G S H L V E A L A L V C G E
 cggggcttccactacgggggtggcggaggaggttctgggtggcggcgaggcatcgtggaa
 R G F H Y G G G G G S G G G G G I V E
 cagtgtgtcacctccacctgtctccctggaccagctggaaaactactgcggtggcggaggt
 Q C C T S T C S L D Q L E N Y C G G G G
 ggtcaaggaggcgggtggacaggggtggaggtgggcaggaggaggcggggagacaaaact
 G Q G G G Q G G G G Q G G G G G D K T
 cacacatgcccaccgtgccagcacctgaactcctggggggaccgtcagtcttctcttc
 H T C P P C P A P E L L G G P S V F L F
 cccccaaaaccaaggacaccctcatgatctcccggacccctgaggtcacatgcgtgggtg
 P P K P K D T L M I S R T P E V T C V V
 gtggacgtgagccacgaagaccctgaggtcaagttcaactggtacgtggcggcgtggag
 V D V S H E D P E V K F N W Y V D G V E
 gtgcataatgccaagacaaagccgcgggaggagcagtaccaaagcacgtaccgtgtggtc
 V H N A K T K P R E E Q Y Q S T Y R V V
 agcgtcctcaccgtcctgcaccaggactggctgaatggcaaggagtacaagtgaaggtc
 S V L T V L H Q D W L N G K E Y K C K V
 tccaacaaagccctcccagcccccatcgagaaaaccatctccaaagccaaagggcagccc
 S N K A L P A P I E K T I S K A K G Q P
 cgagaaccacaggtgtacaccctgcccccatcccgggatgagctgaccaagaaccaggtc
 R E P Q V Y T L P P S R D E L T K N Q V
 agcctgacctgcctgggtcaaaggcttctatcccagcgacatcgccgtggagtgggagagc
 S L T C L V K G F Y P S D I A V E W E S
 aatgggcagccggagaacaactacaagaccacgcctcccgtgctggactccgacggctcc
 N G Q P E N N Y K T T P P V L D S D G S
 ttcttctctacagcaagctcaccgtggacaagagcaggtggcagcaggggaacgtcttc
 F F L Y S K L T V D K S R W Q Q G N V F
 tcatgtccgtgatgatgaggtctgtcacaccactacacgcagaagagcctctccctg
 S C S V M H E A L H N H Y T Q K S L S L
 tctccgggttag
 S P G -

FIG. 37

30/30

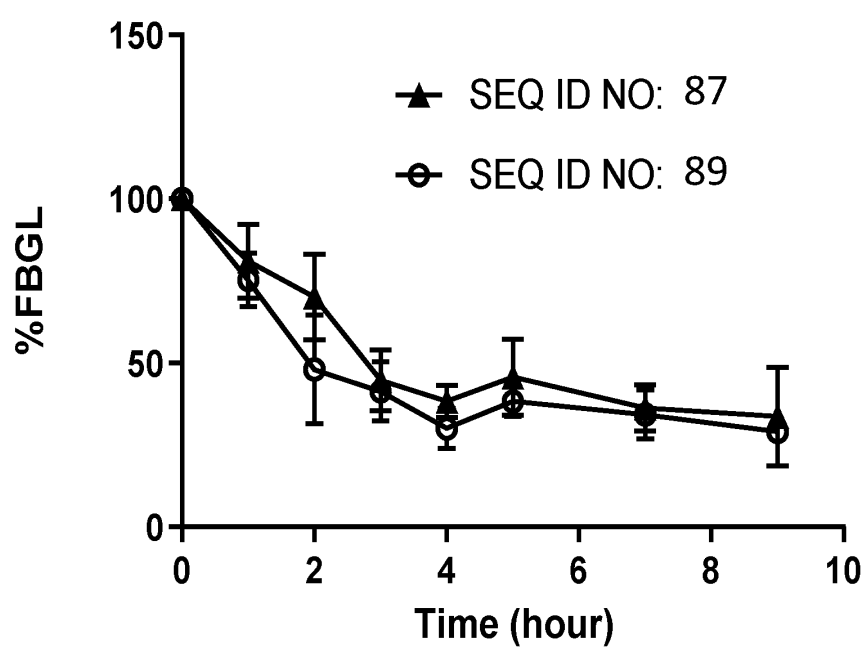


FIG. 38