SEQUENCE LISTING

SEQ.I.D.NO:1

FYIKDTYMH

SEQ.I.D.NO:2

TIDPANGNTKYVPKFQG

SEQ.I.D.NO:3

SIYDDYHYDDYYAMDY

SEQ.I.D.NO:4

RSSQNIVHINGNTYLE

SEQ.I.D.NO:5

KISDRFS

SEQ.I.D.NO:6

FQGSHVPWT

SEQ.I.D.NO:7

EIQLQQSVAELVRPGASVRLSCTASGFYIKDTYMHWVIQRPEQGLEWIGTIDPAN
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AMDYWGQGTSVTVSS.

SEQ.I.D.NO:8

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ISDRFSGVPDRFSGSGSGTDFTLKISRVEAEDLGVYYCFQGSHVPWTFGGGTKLE
IK.

SEQ.I.D.NO:9

GPVPPSTALRELIEELVNITQNQKAPLCNGSMVWSINLTAGMYCAALESLINVSG
CSAIEKTQRMLSGFCPHKVSAGQFSSLHVRDTKIEVAQFVKDLLLHLKKLFREGR
FN

SEQ.I.D.NO:10

GGCCCTGTGCCTCCCTCTACAGCCCTCAGGGAGCTCATTGAGGAGCTGGTCAACA
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CCTGACAGCTGGCATGTACTGTGCAGCCCTGGAATCCCTGATCAACGTGTCAGGC
TGCAGTGCCATCGAGAAGACCCAGAGGATGCTGAGCGGATTCTGCCCGCACAAGG
TCTCAGCTGGGCAGTTTTCCAGCTTGCATGTCCGAGACACCAAAATCGAGGTGGC
CCAGTTTGTAAAGGACCTGCTCTTACATTTAAAGAAACTTTTTCGCGAGGGACGG
TTCAACTGA

SEQ.I.D.NO:11

QVQLVQSGAEVKKPGSSVKVSCKASGFYIKDTYMHWVRQAPGQGLEWMGTIDPAN
GNTKYVPKFQGRVTITADESTSTAYMELSSLRSEDTAVYYCARSIYDDYHYDDYY
AMDYWGQGTLVTVSS

SEQ.I.D.NO:12

QVQLVQSGAEVKKPGSSVKVSCKASGFYIKDTYMHWVIQAPGQGLEWMGTIDPAN
GNTKYVPKFQGRVTITADESTSTAYMELSSLRSEDTAVYYCARSIYDDYHYDDYY
AMDYWGQGTLVTVSS

SEQ.I.D.NO:13

QVQLVQSGAEVKKPGSSVKVSCKASGFYIKDTYMHWVIQAPGQGLEWMGTIDPAN
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AMDYWGQGTLVTVSS

SEQ.I.D.NO:14

QVQLVQSGAEVKKPGSSVRVSCKASGFYIKDTYMHWVIQAPGQGLEWMGTIDPAN
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AMDYWGQGTLVTVSS

SEQ.I.D.NO:15

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IK

SEQ.I.D.NO:16

DIVMTQSPLSLPVTPGEPASISCRSSQNIVHINGNTYLEWYLQKPGQSPRLLIYK
ISDRFSGVPDRFSGSGSGTDFTLKISRVEADDVGVYYCFQGSHVPWTFGQGTKLE
IK

SEQ.I.D.NO:17

MGWSCIILFLVATATGVHS

SEQ.I.D.NO:18

QVQLVQSGAEVKKPGSSVKVSCKASGFYIKDTYMHWVRQAPGQGLEWMGTIDPAN
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KKVEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVS
HEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCK
VSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDI
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HNHYTQKSLSLSPGK

SEQ.I.D.NO:19

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HEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCK
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SEQ.I.D.NO:20

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VSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDI
AVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEAL
HNHYTQKSLSLSPGK

SEQ.I.D.NO:21

QVQLVQSGAEVKKPGSSVRVSCKASGFYIKDTYMHWVIQAPGQGLEWMGTIDPAN
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KKVEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVS
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VSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDI
AVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEAL
HNHYTQKSLSLSPGK

SEQ.I.D.NO:22

DIVMTQSPLSLPVTPGEPASISCRSSQNIVHINGNTYLEWYLQKPGQSPRLLIYK
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IKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQ
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SEQ.I.D.NO:23

DIVMTQSPLSLPVTPGEPASISCRSSQNIVHINGNTYLEWYLQKPGQSPRLLIYK
ISDRFSGVPDRFSGSGSGTDFTLKISRVEADDVGVYYCFQGSHVPWTFGQGTKLE
IKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQ
ESVTEQDSKDSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC

SEQ.I.D.NO:24

GAAATTCAGCTGCAGCAGTCTGTGGCAGAACTTGTGAGGCCAGGGGCCTCAGTCA
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GATTCAGAGGCCTGAACAGGGCCTGGAGTGGATTGGAACGATTGATCCTGCGAAT
GGTAATACTAAATATGTCCCGAAGTTCCAGGGCAAGGCCACTATAACTGCAGACA
CATCCTCCAACACAGCCTACCTGCGGCTCAGCAGCCTGACATCTGAGGACACTGC
CATCTATTACTGTGCTAGAAGCATCTATGATGATTACCACTACGACGATTACTAT
GCTATGGACTACTGGGGTCAAGGAACCTCAGTCACCGTCTCCTCA

SEQ.I.D.NO:25

GATGTTTTGATGACCCAAACTCCACTCTCCCTGCCTGTCAGTCTTGGAGATCAAG
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ATTTCCGACCGATTTTCTGGGGTCCCAGACAGGTTCAGTGGCAGTGGATCAGGGA
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ATCAAA

SEQ.I.D.NO:26

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GCGACAGGCCCCTGGACAAGGGCTTGAGTGGATGGGAACGATTGATCCTGCGAAT
GGTAATACTAAATATGTCCCGAAGTTCCAGGGCAGAGTCACGATTACCGCGGACG
AATCCACGAGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGAGGACACGGC
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GCTATGGACTACTGGGGCCAAGGGACACTAGTCACAGTCTCCTCA

SEQ.I.D.NO:27

CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGAAGCCTGGGTCCTCGGTGA
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GGTAATACTAAATATGTCCCGAAGTTCCAGGGCAGAGTCACGATTACCGCGGACG
AATCCACGAGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGAGGACACGGC
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SEQ.I.D.NO:28

CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGAAGCCTGGGTCCTCGGTGA
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GGTAATACTAAATATGTCCCGAAGTTCCAGGGCAGAGTCACGATTACCGCGGACA

CATCCACGAGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGAGGACACGGC
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GCTATGGACTACTGGGGCCAAGGGACACTAGTCACAGTCTCCTCA

SEQ.I.D.NO:29

CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGAAGCCTGGGTCCTCGGTGA
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SEQ.I.D.NO:30

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ATTTCCGACCGATTTTCTGGGGTCCCTGACAGGTTCAGTGGCAGTGGATCAGGCA
CAGATTTTACATTGAAAATCAGCAGAGTGGAGGCTGACGATGTTGGAATTTATTA
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ATCAAG

SEQ.I.D.NO:31

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ATTTCCGACCGATTTTCTGGGGTCCCTGACAGGTTCAGTGGCAGTGGATCAGGCA
CAGATTTTACATTGAAAATCAGCAGAGTGGAGGCTGACGATGTTGGAGTTTATTA
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SEQ.I.D.NO:32

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AGGGCCCATCGGTCTTCCCCCTGGCACCCTCCTCCAAGAGCACCTCTGGGGGCAC
AGCGGCCCTGGGCTGCCTGGTCAAGGACTACTTCCCCGAACCGGTGACGGTGTCG
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CCTCAGGACTCTACTCCCTCAGCAGCGTGGTGACCGTGCCCTCCAGCAGCTTGGG
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AAGAAAGTTGAGCCCAAATCTTGTGACAAAACTCACACATGCCCACCGTGCCCAG
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SEQ.I.D.NO:33

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GCCGTGGAGTGGGAGAGCAATGGGCAGCCGGAGAACAACTACAAGACCACGCCTC
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SEQ.I.D.NO:34

CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGAAGCCTGGGTCCTCGGTGA
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CCGTGCTGGACTCCGACGGCTCCTTCTTCCTCTACAGCAAGCTCACCGTGGACAA
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SEQ.I.D.NO:35

CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGAAGCCTGGGTCCTCGGTGA
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GATACAGGCCCCTGGACAAGGGCTTGAGTGGATGGGAACGATTGATCCTGCGAAT
GGTAATACTAAATATGTCCCGAAGTTCCAGGGCAGAGTCACGATTACCGCGGACA
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AGGGCCCATCGGTCTTCCCCCTGGCACCCTCCTCCAAGAGCACCTCTGGGGGCAC
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GCCGTGGAGTGGGAGAGCAATGGGCAGCCGGAGAACAACTACAAGACCACGCCTC
CCGTGCTGGACTCCGACGGCTCCTTCTTCCTCTACAGCAAGCTCACCGTGGACAA
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CACAACCACTACACGCAGAAGAGCCTCTCCCTGTCTCCGGGTAAATGA

SEQ.I.D.NO:36

GATATTGTGATGACTCAGTCTCCACTCTCCCTGCCCGTCACCCCTGGAGAGCCGG
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CTGCTTTCAAGGTTCACATGTTCCGTGGACGTTTGGCCAGGGGACCAAGCTGGAG
ATCAAGCGTACGGTGGCTGCACCATCTGTCTTCATCTTCCCGCCATCTGATGAGC
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GAGAGTGTCACAGAGCAGGACAGCAAGGACAGCACCTACAGCCTCAGCAGCACCC
TGACGCTGAGCAAAGCAGACTACGAGAAACACAAAGTCTACGCCTGCGAAGTCAC
CCATCAGGGCCTGAGCTCGCCCGTCACAAAGAGCTTCAACAGGGGAGAGTGTTAG

SEQ.I.D.NO:37

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ATCAAGCGTACGGTGGCTGCACCATCTGTCTTCATCTTCCCGCCATCTGATGAGC
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GAGAGTGTCACAGAGCAGGACAGCAAGGACAGCACCTACAGCCTCAGCAGCACCC
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SEQ.I.D.NO:38

SGSGPSTALRELIEELVNIT

SEQ.I.D.NO:39

SGSGLRELIEELVNITQNQK

SEQ.I.D.NO:40

SGSGIEELVNITQNQKAPLC

SEQ.I.D.NO:41

SGSGVNITQNQKAPLCNGSM

SEQ.I.D.NO:42

SGSGQNQKAPLCNGSMVWSI

SEQ.I.D.NO:43

SGSGAPLCNGSMVWSINLTA

SEQ.I.D.NO:44

SGSGNGSMVWSINLTAGMYC

SEQ.I.D.NO:45

SGSGVWSINLTAGMYCAALE

SEQ.I.D.NO:46

SGSGNLTAGMYCAALESLIN

SEQ.I.D.NO:47

SGSGGMYCAALESLINVSGC

SEQ.I.D.NO:48

SGSGAALESLINVSGCSAIE

SEQ.I.D.NO:49

SGSGSLINVSGCSAIEKTQR

SEQ.I.D.NO:50

SGSGVSGCSAIEKTQRMLSG

SEQ.I.D.NO:51

SGSGSAIEKTQRMLSGFCPH

SEQ.I.D.NO:52

SGSGKTQRMLSGFCPHKVSA

SEQ.I.D.NO:53

SGSGMLSGFCPHKVSAGQFS

SEQ.I.D.NO:54

SGSGFCPHKVSAGQFSSLHV

SEQ.I.D.NO:55

SGSGKVSAGQFSSLHVRDTK

SEQ.I.D.NO:56

SGSGGQFSSLHVRDTKIEVA

SEQ.I.D.NO:57

SGSGSLHVRDTKIEVAQFVK

SEQ.I.D.NO:58

SGSGRDTKIEVAQFVKDLLL

SEQ.I.D.NO:59

SGSGIEVAQFVKDLLLHLKK

SEQ.I.D.NO:60

SGSGQFVKDLLLHLKKLFRE

SEQ.I.D.NO:61

SGSGDLLLHLKKLFREGRFN

SEQ.I.D.NO:62

SGSGPSTALKELIEELVNIT

SEQ.I.D.NO:63

SGSGLKELIEELVNITQNQK

SEQ.I.D.NO:64

SGSGNGSMVWSINLTAGVYC

SEQ.I.D.NO:65

SGSGVWSINLTAGVYCAALE

SEQ.I.D.NO:66

SGSGNLTAGVYCAALESLIN

SEQ.I.D.NO:67

SGSGGVYCAALESLINVSGC

SEQ.I.D.NO:68

SGSGVSGCSAIEKTQRMLNG

SEQ.I.D.NO:69

SGSGSAIEKTQRMLNGFCPH

SEQ.I.D.NO:70

SGSGKTQRMLNGFCPHKVSA

SEQ.I.D.NO:71

SGSGMLNGFCPHKVSAGQFS

SEQ.I.D.NO:72

SGSGFCPHKVSAGQFSSLRV

SEQ.I.D.NO:73

SGSGKVSAGQFSSLRVRDTK

SEQ.I.D.NO:74

SGSGGQFSSLRVRDTKIEVA

SEQ.I.D.NO:75

SGSGSLRVRDTKIEVAQFVK

SEQ.I.D.NO:76

SGSGRDTKIEVAQFVKDLLV

SEQ.I.D.NO:77

SGSGIEVAQFVKDLLVHLKK

SEQ.I.D.NO:78

SGSGQFVKDLLVHLKKLFRE

SEQ.I.D.NO:79

SGSGDLLVHLKKLFREGQFN

SEQ.I.D.NO:80

QFVKDLLLHLKKLFRE

SEQ.I.D.NO:81

DLLLHLKKLFREGRFN

SEQ.I.D.NO:82

QFVKDLLVHLKKLFRE

SEQ.I.D.NO:83

DLLVHLKKLFREGQFN

SEQ.I.D.NO:84

DLLLHLKKLFRE

SEQ.I.D.NO:85

DLLVHLKKLFRE

SEQ.I.D.NO:86

GATGAAGCTTGCCACCATGAAATGCAGCTGGGTCATC

SEQ.I.D.NO:87

GATGGACTAGTGTTCCTTGACCCCAGTA

SEQ.I.D.NO:88

GATGAAGCTTGCCACCATGAAGTTGCCTGTTAGGCTG

SEQ.I.D.NO:89

GATGCGTACGTTTGATTTCCAGCTTGGTGCC

SEQ.I.D.NO:90

SPVPPSTALKELIEELVNITQNQKAPLCN
GSMVWSINLTAGVYCAALESLINVSGCSA
IEKTQRMLNGFCPHKVSAGQFSSLRVRDT
KIEVAQFVKDLLVHLKKLFREGQFN

SEQ.I.D.NO:91

AGCCCTGTGCCTCCCTCTACAGCCCTCAAGGAGCTCATTGAGGAGCTGGTCAACA
TCACCCAGAACCAGAAGGCCCCGCTCTGCAATGGCAGCATGGTGTGGAGCATCAA
CCTGACAGCTGGCGTGTACTGTGCAGCCCTGGAATCCCTGATCAACGTGTCAGGC
TGCAGTGCCATCGAGAAGACCCAGAGGATGCTGAACGGATTCTGCCCGCACAAGG
TCTCAGCTGGGCAGTTTTCCAGCTTGCGTGTCCGAGACACCAAAATCGAGGTGGC
CCAGTTTGTAAAGGACCTGCTCGTACATTTAAAGAAACTTTTTCGCGAGGGACAG
TTCAACTGA

SEQ.I.D.NO:92

QVQLVQSGAEVKKPGSSVKVSCKASGFYIKDTYMHWVRQAPGQGLEWMGTIDPAN
GNTKYVPKFQGRVTITADESTSTAYMELSSLRSEDTAVYYCARSIYDDYHYDDYY
AMDYWGQGTLVTVSSG

SEQ.I.D.NO:93

DIVMTQSPLSLPVTPGEPASISCRSSQNIVHINGNTYLEWYLQKPGQSPRLLIYK
ISDRFSGVPDRFSGSGSGTDFTLKISRVEADDVGIYYCFQGSHVPWTFGQGTKLE
IK

SEQ.I.D.NO:94

SGSGKDLLLHLKKLFREG

SEQ.I.D.NO:95

SGSGDLLLHLKKLFREG

SEQ.I.D.NO:96

SGSGLLLHLKKLFREG

SEQ.I.D.NO:97

SGSGLLHLKKLFREG

SEQ.I.D.NO:98

SGSGLHLKKLFREG

SEQ.I.D.NO:99

SGSGHLKKLFREG

SEQ.I.D.NO:100

SGSGLKKLFREG

SEQ.I.D.NO:101

SGSGKKLFREG

SEQ.I.D.NO:102

SGSGKLFREG

SEQ.I.D.NO:103

SGSGLFREG

SEQ.I.D.NO:104

SGSGFREG

SEQ.I.D.NO:105

SGSGKDLLLHLKKLFRE

SEQ.I.D.NO:106

SGSGKDLLLHLKKLFR

SEQ.I.D.NO:107

SGSGKDLLLHLKKLF

SEQ.I.D.NO:108

SGSGKDLLLHLKKL

SEQ.I.D.NO:109

SGSGKDLLLHLKK

SEQ.I.D.NO:110

SGSGKDLLLHLK

SEQ.I.D.NO:111

SGSGKDLLLHL

SEQ.I.D.NO:112

SGSGKDLLLH

SEQ.I.D.NO:113

SGSGKDLLL

SEQ.I.D.NO:114

SGSGKDLL

SEQ.I.D.NO:115

SGSGKDLLVHLKKLFREG

SEQ.I.D.NO:116

SGSGDLLVHLKKLFREG

SEQ.I.D.NO:117

SGSGLLVHLKKLFREG

SEQ.I.D.NO:118

SGSGLVHLKKLFREG

SEQ.I.D.NO:119

SGSGVHLKKLFREG

SEQ.I.D.NO:120

SGSGKDLLVHLKKLFRE

SEQ.I.D.NO:121

SGSGKDLLVHLKKLFR

SEQ.I.D.NO:122

SGSGKDLLVHLKKLF

SEQ.I.D.NO:123

SGSGKDLLVHLKKL

SEQ.I.D.NO:124

SGSGKDLLVHLKK

SEQ.I.D.NO:125

SGSGKDLLVHLK

SEQ.I.D.NO:126

SGSGKDLLVHL

SEQ.I.D.NO:127

SGSGKDLLVH

SEQ.I.D.NO:128

SGSGKDLLV

SEQ.I.D.NO:129

QFVKDLLLHLKKLFREGRFN

SEQ.I.D.NO:130

QFVKDLLLHAKKLFREGRFN

SEQ.I.D.NO:131

QFVKDLLLHLAKLFREGRFN

SEQ.I.D.NO:132

QFVKDLLLHLKALFREGRFN

SEQ.I.D.NO:133

QFVKDLLLHLKKAFREGRFN

SEQ.I.D.NO:134

QFVKDLLLHLKKLAREGRFN

SEQ.I.D.NO:135

QFVKDLLLHLKKLFAEGRFN

SEQ.I.D.NO:136

QFVKDLLLHLKKLFRAGRFN