

ILLUSTRATIONS**Fig. 1**

SEQ ID NO:1

EVQLLESGGGLVQPGGSLRLSCAASGFTFSNYWMSWVRQAPGKGLEWVSAISGSGGSTRYADSVKGRFTIS
RDNSKNTLYLQMNSLRAEDTAVYYCTTQRRELGATN WGQGT LVT VSS

SEQ ID NO:2

NYWMS

SEQ ID NO:3

AISGSGGSTRYADSVKG

SEQ ID NO:4

QRRELGATN

SEQ ID NO:5

QSVLTQPPSASGTPGQRTISCTGSSSNIGAGYVVHWYQQLPGTAPKLLIYSNNQRPSGVPDRFSGSKSGTS
ASLAISGLRSEDEADYYCQSYDSSLGSGVVFGGGTKLTVL

SEQ ID NO:6

TGSSSNIGAGYVVH

SEQ ID NO:7

SNNQRPS

SEQ ID NO:8

QSYDSSLGSGVV

SEQ ID NO:9

EVQLLESGGGLVQPGGSLRLSCAASGFTFSNYWMSWVRQAPGKGLEWVSAISGSGGSTRYADSVKGRFTIS
RDNSKNTLYLQMNSLRAEDTAVYYCTTQRRELGATN WGQGT LVT VSSASTKGPSVFPLAPSSKSTSGGTAAL
GCLVKDYFPEPTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKV
EPKSCDKHTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNA
KTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTK
NQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEA
LHNHYTQKSLSLSPG

SEQ ID NO:10

QSVLTQPPSASGTPGQRTISCTGSSSNIGAGYVVHWYQQLPGTAPKLLIYSNNQRPSGVPDRFSGSKSGTS
ASLAISGLRSEDEADYYCQSYDSSLGSGVVFGGGTKLTVLGQPKAAPSVTLFPPSSEELQANKATLVCLISDFYP
GAVTVAWKADSSPVKAGVETTTTPSKQSNNKYAASSYLSLTPEQWKSHRSYSCQVTHEGSTVEKTVAPTECS

SEQ ID NO:11

EVQLLESGGGLVQPGGSLRLSCAASGFTFSNYWMSWVRQAPGKGLEWVSAISGSGGSTYYADSVKGRFTIS
RDNSKNTLYLQMNSLRAEDTAVYYCTVLRRELGATN WGQGT LVT VSS

SEQ ID NO:12

NYWGS

SEQ ID NO:13

AISGSGGSTYYADSVKG

(Fig. 1 continued)

SEQ ID NO:14
LRRELGATN

SEQ ID NO:15
QSVLTQPPSASGTPGQRTISCTGSSSNIGAGYVVHWYQQLPGTAPKLLIYSNNQRPSGVPDRFSGSKSGTS
ASLAISGLRSEDEADYYCQSYDSSLGSGVVFSGGTCLTVL

SEQ ID NO:16
TGSSSNIGAGYVVH

SEQ ID NO:17
SNNQRPS

SEQ ID NO:18
QSYDSSLGSGV

SEQ ID NO:19
EVQLLESGGGLVQPGGSLRLSCAASGFTFSNYWGSWVRQAPGKGLEWVSAISGSGGSTYYADSVKGRFTIS
RDNSKNTLYLQMNSLRAEDTAVYYCTVLRRELGATNWGGGTLTVSSASTKGPSVFPLAPSSKSTSGGTAAL
GCLVKDYFPEPTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVTVPSSSLGTQTYICNVNHKPSNTKVDKKV
EPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNA
KTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTK
NQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEA
LHNHYTQKSLSLSPG

SEQ ID NO:20
QSVLTQPPSASGTPGQRTISCTGSSSNIGAGYVVHWYQQLPGTAPKLLIYSNNQRPSGVPDRFSGSKSGTS
ASLAISGLRSEDEADYYCQSYDSSLGSGVVFSGGTCLTVLGQPKAAPSVTLFPPSSEELQANKATLVCLISDFYP
GAVTVAWKADSSPVKAGVETTTTPSKQSNNKYAASSYLSLTPEQWKSHRSYSCQVTHEGSTVEKTVAPTECS

SEQ ID NO:21
EVQLLESGGGLVQPGGSLRLSCAASGFTFSNNWMSWVRQAPGKGLEWVSAISGSGGSTYYADSVKGRFTIS
RDNSKNTLYLQMNSLRAEDTAVYYCNVQRRELGATNWGGGTLTVTVSS

SEQ ID NO:22
NNWMS

SEQ ID NO:23
AISGSGGSTYYADSVKG

SEQ ID NO:24
QRRELGATN

SEQ ID NO:25
QSVLTQPPSASGTPGQRTISCTGSSSNIGAGYVVHWYQQLPGTAPKLLIYSNNQRPSGVPDRFSGSKSGTS
ASLAISGLRSEDEADYYCQSYDSSLGSGVVFSGGTCLTVL

SEQ ID NO:26
TGSSSNIGAGYVVH

SEQ ID NO:27
SNNQRPS

SEQ ID NO:28

(Fig. 1 continued)

QSYDSSLGCV

SEQ ID NO:29

EVQLLESGGGLVQPGGSLRLSCAASGFTFSNNWMSWVRQAPGKGLEWVSAISGSGGSTYYADSVKGRFTIS
RDNSKNTLYLQMNSLRAEDTAVYYCNVQRRELGATNWGGGTLVTVSSASTKGPSVFPLAPSSKSTSGGTAA
LGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVTVPSSSLGTQTYICNVNHKPSNTKVDKK
VEPKSCDKHTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVDVSHEDPEVKFNWYVDGVEVHN
AKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDEL
TKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHE
ALHHYTKQSLSLSPG

SEQ ID NO:30

QSVLTQPPSASGTPGQRVTISCTGSSSNIGAGYVHVHYQQLPGTAPKLLIYSNNQRPSGVPDRFSGSKSGTS
ASLAISGLRSEDEADYYCQSYDSSLGCVVFGGGTKLTVLGQPKAAPSVTLFPPSSEELQANKATLVCLISDFYP
GAVTVAWKADSSPVKAGVETTTTPSKQSNNKYAASSYLSLTPEQWKSHRSYSCQVTHEGSTVEKTVAPTECS

SEQ ID NO:31

EVQLLESGGGLVQPGGSLRLSCAASGFTFSNYWMSWVRQAPGKGLEWVSAISGSGGSTYYADSVKGRFTIS
RDNSKNTLYLQMNSLRAEDTAVYYCTVQRRELGATNWGGGTLVTVSS

SEQ ID NO:32

NYWMS

SEQ ID NO:33

AISGSGGSTYYADSVKG

SEQ ID NO:34

QRRELGATN

SEQ ID NO:35

QSVLTQPPSASGTPGQRVTISCTGSSSNIGAGYVHVHYQQLPGTAPKLLIYSNNQRPSGVPDRFSGSKSGTS
ASLAISGLRSEDEADYYCQSYDSSLGCVVFGGGTKLTVL

SEQ ID NO:36

TGSSSNIGAGYVVH

SEQ ID NO:37

SNNQRPS

SEQ ID NO:38

QSYDSSLGCV

SEQ ID NO:39

EVQLLESGGGLVQPGGSLRLSCAASGFTFSNYWMSWVRQAPGKGLEWVSAISGSGGSTYYADSVKGRFTIS
RDNSKNTLYLQMNSLRAEDTAVYYCTVQRRELGATNWGGGTLVTVSSASTKGPSVFPLAPSSKSTSGGTAA
LGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVTVPSSSLGTQTYICNVNHKPSNTKVDKKV
EPKSCDKHTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVDVSHEDPEVKFNWYVDGVEVHNA
KTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTK
NQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEA
LHHYTKQSLSLSPG

SEQ ID NO:40

QSVLTQPPSASGTPGQRVTISCTGSSSNIGAGYVHVHYQQLPGTAPKLLIYSNNQRPSGVPDRFSGSKSGTS
ASLAISGLRSEDEADYYCQSYDSSLGCVVFGGGTKLTVLGQPKAAPSVTLFPPSSEELQANKATLVCLISDFYP
GAVTVAWKADSSPVKAGVETTTTPSKQSNNKYAASSYLSLTPEQWKSHRSYSCQVTHEGSTVEKTVAPTECS

(Fig. 1 continued)

SEQ ID NO:41

EVQLLESGGGLVQPGGSLRLSCAASGFTFSNYWMSWVRQAPGKGLEWVSAISGSGGTTYADSVKGRFTIS
RDNSKNTLYLQMNSLRAEDTAVYYCTTQRRELGATNHWGQGLTVTVSS

SEQ ID NO:42

NYWMS

SEQ ID NO:43

AISGSGGTTYADSVKG

SEQ ID NO:44

QRRELGATN

SEQ ID NO:45

QSVLTQPPSASGTPGQRVTISCTGSSSNIGAGYVHWHYQQLPGTAPKLLIYSNNQRPSGVPDRFSGSKSGTS
ASLAISGLRSEDEADYYCQSYDSSLGSGVFGGGTKLTVL

SEQ ID NO:46

TGSSSNIGAGYVVH

SEQ ID NO:47

SNNQRPS

SEQ ID NO:48

QSYDSSLGSGV

SEQ ID NO:49

EVQLLESGGGLVQPGGSLRLSCAASGFTFSNYWMSWVRQAPGKGLEWVSAISGSGGTTYADSVKGRFTIS
RDNSKNTLYLQMNSLRAEDTAVYYCTTQRRELGATNHWGQGLTVTVSSASTKGPSVFPLAPSSKSTSGGTAAL
GCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVTVPSSSLGTQTYICNVNHKPSNTKVDKKV
EPKSCDKHTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNA
KTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTK
NQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEA
LHNHYTQKSLSLSPG

SEQ ID NO:50

QSVLTQPPSASGTPGQRVTISCTGSSSNIGAGYVHWHYQQLPGTAPKLLIYSNNQRPSGVPDRFSGSKSGTS
ASLAISGLRSEDEADYYCQSYDSSLGSGVFGGGTKLTVLGQPKAAPSVTLFPPSSEELQANKATLVCLISDFYP
GAVTVAWKADSSPVKAGVETTTTPSKQSNNKYAASSYLSLTPEQWKSHRSYSCQVTHEGSTVEKTVAPTECS

SEQ ID NO:51

EVQLLESGGGLVQPGGSLRLSCAASGFTFSNNWMSWVRQAPGKGLEWVSAISGSGGSTYYADSVKGRFTIS
RDNSKNTLYLQMNSLRAEDTAVYYCTVQRRELGATNHWGQGLTVTVSS

SEQ ID NO:52

NNWMS

SEQ ID NO:53

AISGSGGSTYYADSVKG

SEQ ID NO:54

QRRELGATN

SEQ ID NO:55

(Fig. 1 continued)

QSVLTQPPSASGTPGQRTISCTGSSSNIGAGYVVHWYQQLPGTAPKLLIYSNNQRPSGVPDRFSGSKSGTS
ASLAISGLRSEADYYCQSYDSSLGSGVVFGGGTKLTVL

SEQ ID NO:56
TGSSSNIGAGYVVH

SEQ ID NO:57
SNNQRPS

SEQ ID NO:58
QSYDSSLGSGVV

SEQ ID NO:59
EVQLLESGGGLVQPGGSLRLSCAASGFTFSNNWMSWVRQAPGKGLEWVSAISGSGGSTYYADSVKGRFTIS
RDNSKNTLYLQMNSLRAEDTAVYYCTVQRRELGATNWGQGTTLTVSSASTKGPSVFPLAPSSKSTSGGTAAL
GCLVKDYFPEPVTISWNSGALTSGVHTFPAVLQSSGLYSLSSVTPSSSLGTQTYICNVNHKPSNTKVDKKV
EPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNA
KTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTK
NQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEA
LHNHYTQKSLSLSPG

SEQ ID NO:60
QSVLTQPPSASGTPGQRTISCTGSSSNIGAGYVVHWYQQLPGTAPKLLIYSNNQRPSGVPDRFSGSKSGTS
ASLAISGLRSEADYYCQSYDSSLGSGVVFGGGTKLTVLGQPKAAPSVTLFPPSSEELQANKATLVCLISDFYP
GAVTVAWKADSSPVKAGVETTTTPSKQSNKNYAASSYLSLTPEQWKSHRSYSCQVTHEGSTVEKTVAPTECS

SEQ ID NO:61
EVQLLESGGGLVQPGGSLRLSCAASGFTFSNYWMSWVRQAPGKGLEWVSAISGSGGSTYYADSVKGRFTIS
RDNSKNTLYLQMNSLRAEDTAVYYCTTLRRELGATNWGQGTTLTVSS

SEQ ID NO:62
NYWMS

SEQ ID NO:63
AISGSGGSTYYADSVKG

SEQ ID NO:64
LRRELGATN

SEQ ID NO:65
QSVLTQPPSASGTPGQRTISCTGSSSNIGAGYVVHWYQQLPGTAPKLLIYSNNQRPSGVPDRFSGSKSGTS
ASLAISGLRSEADYYCQSYDSSLGSGVVFGGGTKLTVL

SEQ ID NO:66
TGSSSNIGAGYVVH

SEQ ID NO:67
SNNQRPS

SEQ ID NO:68
QSYDSSLGSGVV

SEQ ID NO:69
EVQLLESGGGLVQPGGSLRLSCAASGFTFSNYWMSWVRQAPGKGLEWVSAISGSGGSTYYADSVKGRFTIS
RDNSKNTLYLQMNSLRAEDTAVYYCTTLRRELGATNWGQGTTLTVSSASTKGPSVFPLAPSSKSTSGGTAAL
GCLVKDYFPEPVTISWNSGALTSGVHTFPAVLQSSGLYSLSSVTPSSSLGTQTYICNVNHKPSNTKVDKKV

(Fig. 1 continued)

EPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVDVSHEDPEVKFNWYVDGVEVHNA
 KTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTK
 NQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEA
 LHNHYTQKSLSLSPG

SEQ ID NO:70

QSVLTQPPSASGTPGQRTISCTGSSSNIGAGYVWHYQQLPGTAPKLLIYSNNQRPSGVPDRFSGSKSGTS
 ASLAISGLRSEDEADYYCQSYDSSLGVSFVGGGTCLTVLGQPKAAPSVTLFPPSSEELQANKATLVCLISDFYP
 GAVTVAWKADSSPVKAGVETTTTPSKQSNKYAASSYLSLTPEQWKSHRSYSCQVTHEGSTVEKTVAPTECS

SEQ ID NO:71

EVQLLESQGGGLVQPGGSLRLSCAASGFTFSRYVMVWVRQAPGKGLEWVSGISPSGGVTRYAASVKGRFTIS
 RDNSKNTLYLQMNLSRAEDTAVYYCARIRKEMTTISYFFDYWGQGLTVTVSS

SEQ ID NO:72

RYVMV

SEQ ID NO:73

GISPSGGVTRYAASVKG

SEQ ID NO:74

IRKEMTTISYFFDY

SEQ ID NO:75

DIQMTQSPSSLSASVGDRTITCRASQGVDAYVAWYQQKPGKVPKLLIYSTSTLASGVPSRFSGSGSGTDFTL
 TISSLQPEDVATYYCQSHNAAVVTFGQGTREIK

SEQ ID NO:76

RASQGVDAVA

SEQ ID NO:77

STSTLAS

SEQ ID NO:78

QSHNAAVVT

SEQ ID NO:79

EVQLLESQGGGLVQPGGSLRLSCAASGFTFSRYVMVWVRQAPGKGLEWVSGISPSGGVTRYAASVKGRFTIS
 RDNSKNTLYLQMNLSRAEDTAVYYCARIRKEMTTISYFFDYWGQGLTVTVSSASTKGPSVFPLAPSSKSTSGG
 TAALGCLVKDYFPEPTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVTPSSSLGTQTYICNVNHKPSNTKV
 DKKVEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVDVSHEDPEVKFNWYVDGVE
 VHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRD
 ELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFCFSVM
 HEALHNHYTQKSLSLSPG

SEQ ID NO:80

DIQMTQSPSSLSASVGDRTITCRASQGVDAVAWYQQKPGKVPKLLIYSTSTLASGVPSRFSGSGSGTDFTL
 TISSLQPEDVATYYCQSHNAAVVTFGQGTREIKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQ
 WKVDNALQSGNSQESVTEQDSKSTYLSSTLTLSKADYEKHKVYACEVTHQGLSPVTKSFNRGEC

SEQ ID NO:81

MNYPLTLEMDLENLEDFWELDRIDNYNDTSLVENHLCPTGELMASFKAVFVPVAYSILFLLGVIGNVLVLVI
 LERHRQTRSSSTETFLFHLAVADLLLVFILPFAVAEGSVGWVLTGFLCKTVIALHKVNFYCSSLLACIAVDRLAI
 VHAVHAYRHRRLLSIHITCGTIWLVGFLALPEILFAKVSQGHNNLSLPRCTFSQENQAETHAWFTSRFLYHVA
 GFLPMLVMGWVCYGVVHRLRQAQRPRQRQKAVRVAILVTSIFFLCWSPYHIVIFDLTLARLKAVDNTCKLNG
 SLPVAITMCEFLGLAHCCLNPMPLYFAGVKFRSLSRLTLKLGCTGPASLCQLFPSWRRSSLSSEENATSLTTF