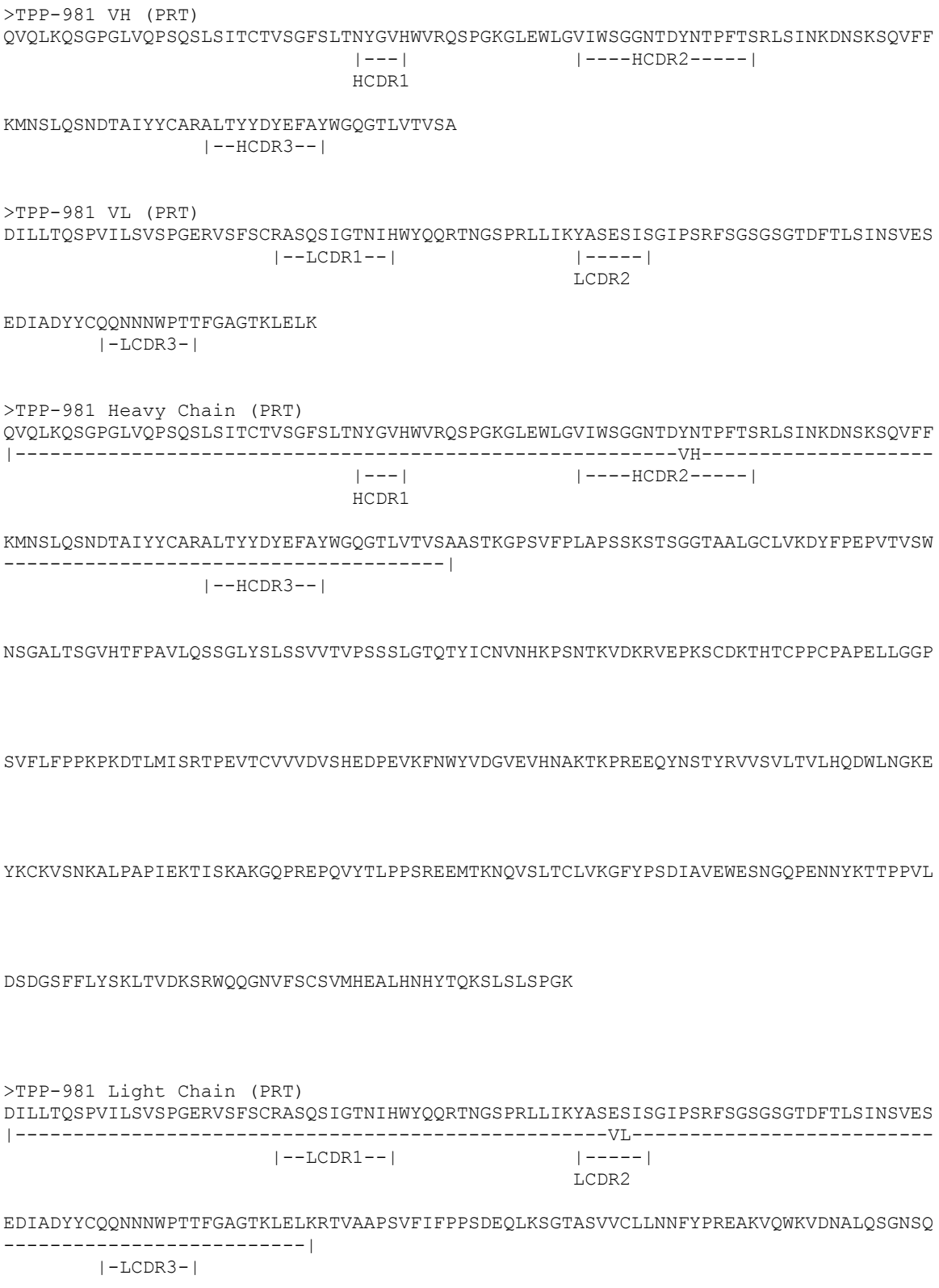
IMAGES

Fig. 1


>TPP-981 VH (PRT)
QVQLKQSGPGLVQPSQSLSITCTVSGFSLTNYGVHWVRQSPGKGLEWLGVIWSGGNTDYNTPFTSRLSINKDNSKSQVFF
|---|
HCDR1
|----HCDR2-----|
KMNSLQSNDTAIYYCARALTYYDYEFAYWGQGTLVTVSA
|--HCDR3--|
>TPP-981 VL (PRT)
DILLTQSPVILSVSPGERVSFSCRASQSIGTNIHWYQQRTNGSPRLLIKYASESISGIPSRFSGSGSGTDFTLSINSVES
--LCDR1--
LCDR2
EDIADYYCQQNNNWPTTFGAGTKLELK
-LCDR3-
>TPP-981 Heavy Chain (PRT)
QVQLKQSGPGLVQPSQSLSITCTVSGFSLTNYGVHWVRQSPGKGLEWLGVIWSGGNTDYNTPFTSRLSINKDNSKSQVFF
VH
|---|
HCDR1
|----HCDR2-----|
KMNSLQSNDTAIYYCARALTYYDYEFAYWGQGTLVTVSAASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSW
|--HCDR3--|
NSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKRVEPKSCDKTHTCPPCPAPELLGGP
SVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKE
YKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK
>TPP-981 Light Chain (PRT)
DILLTQSPVILSVSPGERVSFSCRASQSIGTNIHWYQQRTNGSPRLLIKYASESISGIPSRFSGSGSGTDFTLSINSVES
VL
--LCDR1--
LCDR2
EDIADYYCQQNNNWPTTFGAGTKLELKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQ
-LCDR3-

```
ESVTEQDSKDSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC



>TPP-1015 VH (PRT)
EVQLVESGGGLVQPGGSLRLSCAASGFNIKDTYIHWVRQAPGKGLEWVARIYPTNGYTRYADSVKGRFTISADTSKNTAY
                              |---|              |-----HCDR2-----|
                              HCDR1

LQMNSLRAEDTAVYYCSRWGGDGFYAMDYWGQGTLVTVSS
                  |--HCDR3--|


>TPP-1015 VL (PRT)
DIQMTQSPSSLSASVGDRVTITCRASQDVNTAVAWYQQKPGKAPKLLIYSASFLYSGVPSRFSGSRSGTDFTLTISSLQP
                        |--LCDR1--|               |-----|
                                                  LCDR2

EDFATYYCQQHYTTPPTFGQGTKVEIK
        |-LCDR3-|


>TPP-1015 Heavy Chain (PRT)
EVQLVESGGGLVQPGGSLRLSCAASGFNIKDTYIHWVRQAPGKGLEWVARIYPTNGYTRYADSVKGRFTISADTSKNTAY
|-------------------------------------------------------------VH-------------------
                              |---|              |-----HCDR2-----|
                              HCDR1

LQMNSLRAEDTAVYYCSRWGGDGFYAMDYWGQGTLVTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVS
---------------------------------------|
                  |--HCDR3--|


WNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELLGG



PSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGK



EYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPV



LDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK



>TPP-1015 Light Chain (PRT)
DIQMTQSPSSLSASVGDRVTITCRASQDVNTAVAWYQQKPGKAPKLLIYSASFLYSGVPSRFSGSRSGTDFTLTISSLQP
|-------------------------------------------------VL---------------------------
                        |--LCDR1--|               |-----|
                                                  LCDR2

EDFATYYCQQHYTTPPTFGQGTKVEIKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQ
-------------------------|
        |-LCDR3-|
```

```
ESVTEQDSKDSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC



>TPP-6013 VH (PRT)
QVQLQESGPGLVKPSQSLSLTCSVTDYSITSGYYWNWIRQFPGNKLEWMGYISYDGSNNYNPSLKNRISITRDTSKNQFF
                              |----|              |----HCDR2-----|
                              HCDR1

LKLSSVTTEDTATYYCSRGEGFYFDSWGQGTTLTVSS
                  |------|
                  HCDR3

>TPP-6013 VL (PRT)
DIMMSQSPSSLAVSVGEKFTMTCKSSQSLFFGSTQKNYLAWYQQKPGQSPKLLIYWASTRESGVPDRFTGSGSGTDFTLA
                        |-----LCDR1-----|               |-----|
                                                        LCDR2

ISSVMPEDLAVYYCQQYYNYPWTFGGGTKLEIK
              |-LCDR3-|


>TPP-6013 Heavy Chain (PRT)
QVQLQESGPGLVKPSQSLSLTCSVTDYSITSGYYWNWIRQFPGNKLEWMGYISYDGSNNYNPSLKNRISITRDTSKNQFF
|-------------------------------------------------------VH---------------------
                              |----|              |----HCDR2-----|
                              HCDR1

LKLSSVTTEDTATYYCSRGEGFYFDSWGQGTTLTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNS
-----------------------------------|
                  |------|
                  HCDR3

GALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELLGGPSV



FLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYK



CKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDS



DGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPG



>TPP-6013 Light Chain (PRT)
DIMMSQSPSSLAVSVGEKFTMTCKSSQSLFFGSTQKNYLAWYQQKPGQSPKLLIYWASTRESGVPDRFTGSGSGTDFTLA
|-------------------------------------------------------VL-----------------------
                        |-----LCDR1-----|               |-----|
                                                        LCDR2

ISSVMPEDLAVYYCQQYYNYPWTFGGGTKLEIKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNAL
---------------------------------|
              |-LCDR3-|
```

```
QSGNSQESVTEQDSKDSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC



>TPP-7006 VH (PRT)
QVQLQQSGPELVKPGASVKMSCKASGYTFTDFIIAWVKQRTGQGLEWIGEIYPGTGRTYYSEKFRGKATLTADKSSNTAY
                              |---|              |-----HCDR2-----|
                              HCDR1

MQLSSLTSVDSAVYFCARRTIYYDYDGDYWGQGTTLTVSS
                  |--HCDR3--|


>TPP-7006 VL (PRT)
DIVMTQAAFSNPVTLGTSASISCRSSKSLLHSNGITYLYWYLQKPGQSPQLLIYQMSNLASGVPDRFSSSGSGTDFTLRI
                        |----LCDR1-----|               |-----|
                                                      LCDR2

SRVEAEDVGVYYCAHNLELPWTFGGGTKLELK
             |-LCDR3-|


>TPP-7006 Heavy Chain (PRT)
QVQLQQSGPELVKPGASVKMSCKASGYTFTDFIIAWVKQRTGQGLEWIGEIYPGTGRTYYSEKFRGKATLTADKSSNTAY
|-------------------------------------------------------------VH------------------
                              |---|              |-----HCDR2-----|
                              HCDR1

MQLSSLTSVDSAVYFCARRTIYYDYDGDYWGQGTTLTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVS
---------------------------------------|
                  |--HCDR3--|


WNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELLGG



PSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGK



EYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPV



LDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPG



>TPP-7006 Light Chain (PRT)
DIVMTQAAFSNPVTLGTSASISCRSSKSLLHSNGITYLYWYLQKPGQSPQLLIYQMSNLASGVPDRFSSSGSGTDFTLRI
|-----------------------------------------------------VL------------------------
                        |----LCDR1-----|               |-----|
                                                      LCDR2

SRVEAEDVGVYYCAHNLELPWTFGGGTKLELKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQ
--------------------------------|
             |-LCDR3-|
```

```
SGNSQESVTEQDSKDSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC



>TPP-7007 VH (PRT)
QVQLVQSGAEVKKPGASVKVSCKASGYTFTDFIIAWVKQAPGQGLEWIGEIYPGTGRTYYSEKFRGKATLTADTSTSTAY
                              |---|              |-----HCDR2-----|
                              HCDR1

MELSSLRSEDTAVYFCARRTIYYDYDGDYWGQGTLVTVSS
                  |--HCDR3--|


>TPP-7007 VL (PRT)
DIVMTQSPLSLPVTPGEPASISCRSSKSLLHSNGITYLYWYLQKPGQSPQLLIYQMSNLASGVPDRFSGSGSGTDFTLKI
                        |----LCDR1-----|               |-----|
                                                      LCDR2

SRVEAEDVGVYYCAHNLELPWTFGQGTKVEIK
             |-LCDR3-|


>TPP-7007 Heavy Chain (PRT)
QVQLVQSGAEVKKPGASVKVSCKASGYTFTDFIIAWVKQAPGQGLEWIGEIYPGTGRTYYSEKFRGKATLTADTSTSTAY
|-------------------------------------------------------------VH-------------------
                              |---|              |-----HCDR2-----|
                              HCDR1

MELSSLRSEDTAVYFCARRTIYYDYDGDYWGQGTLVTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVS
---------------------------------------|
                  |--HCDR3--|


WNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELLGG



PSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGK



EYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPV



LDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPG



>TPP-7007 Light Chain (PRT)
DIVMTQSPLSLPVTPGEPASISCRSSKSLLHSNGITYLYWYLQKPGQSPQLLIYQMSNLASGVPDRFSGSGSGTDFTLKI
|-----------------------------------------------------VL-----------------------
                        |----LCDR1-----|               |-----|
                                                      LCDR2

SRVEAEDVGVYYCAHNLELPWTFGQGTKVEIKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQ
--------------------------------|
             |-LCDR3-|
```

```
SGNSQESVTEQDSKDSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC



>TPP-8382 VH (PRT)
EVQLLESGGGLVQPGGSLRLSCAASGFTFSSYAMSWVRQAPGKGLEWVSSISGSGGSTLYADSVKGRFTISRDNSKNTLY
                              |---|              |-----HCDR2-----|
                              HCDR1

LQMNSLRAEDTAVYYCAKLTGTSFDYWGQGTLVTVSS
                  |------|
                  HCDR3

>TPP-8382 VL (PRT)
QSVLTQPPSASGTPGQRVTISCSGSSSNIGSNPVNWYQQLPGTAPKLLIYSNNQRPSGVPDRFSGSKSGTSASLAITGLQ
                       |---LCDR1---|               |-----|
                                                   LCDR2

SEDEADYYCQSFDSSLKKVFGGGTKLTVL
         |-LCDR3--|


>TPP-8382 Heavy Chain (PRT)
EVQLLESGGGLVQPGGSLRLSCAASGFTFSSYAMSWVRQAPGKGLEWVSSISGSGGSTLYADSVKGRFTISRDNSKNTLY
|-------------------------------------------------------VH----------------------
                              |---|              |-----HCDR2-----|
                              HCDR1

LQMNSLRAEDTAVYYCAKLTGTSFDYWGQGTLVTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNS
-----------------------------------|
                  |------|
                  HCDR3

GALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELLGGPSV



FLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYK



CKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDS



DGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPG



>TPP-8382 Light Chain (PRT)
QSVLTQPPSASGTPGQRVTISCSGSSSNIGSNPVNWYQQLPGTAPKLLIYSNNQRPSGVPDRFSGSKSGTSASLAITGLQ
|-----------------------------------------------------VL-------------------------
                       |---LCDR1---|               |-----|
                                                   LCDR2

SEDEADYYCQSFDSSLKKVFGGGTKLTVLGQPKAAPSVTLFPPSSEELQANKATLVCLISDFYPGAVTVAWKADSSPVKA
----------------------------|
         |-LCDR3--|
```

```
GVETTTPSKQSNNKYAASSYLSLTPEQWKSHRSYSCQVTHEGSTVEKTVAPTECS



>TPP-8987 VH (PRT)
QVQLVQSGAEVKKPGSSVKVSCKASGGTFSDYYMKWVRQAPGQGLEWMGDIIPSNGATFYNQKFKGQVTITADESTSTAY
                              |---|              |-----HCDR2-----|
                              HCDR1

MELSSLRSEDTAVYYCARSHLLRASWFAYWGQGTLVTVSS
                  |--HCDR3--|


>TPP-8987 VL (PRT)
DIVMTQSPDSLAVSLGERATINCESSQSVLNSGNQKNYLTWYQQKPGQPPKLLIYWASTRESGVPDRFSGSGSGTDFTLT
                        |-----LCDR1-----|               |-----|
                                                        LCDR2

ISSLQAEDVAVYYCQNDYSYPYTFGQGTKLEIK
              |-LCDR3-|


>TPP-8987 Heavy Chain (PRT)
QVQLVQSGAEVKKPGSSVKVSCKASGGTFSDYYMKWVRQAPGQGLEWMGDIIPSNGATFYNQKFKGQVTITADESTSTAY
|-------------------------------------------------------------VH------------------
                              |---|              |-----HCDR2-----|
                              HCDR1

MELSSLRSEDTAVYYCARSHLLRASWFAYWGQGTLVTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVS
---------------------------------------|
                  |--HCDR3--|


WNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELLGG



PSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGK



EYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPV



LDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPG



>TPP-8987 Light Chain (PRT)
DIVMTQSPDSLAVSLGERATINCESSQSVLNSGNQKNYLTWYQQKPGQPPKLLIYWASTRESGVPDRFSGSGSGTDFTLT
|-----------------------------------------------------VL-----------------------
                        |-----LCDR1-----|               |-----|
                                                        LCDR2

ISSLQAEDVAVYYCQNDYSYPYTFGQGTKLEIKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNAL
---------------------------------|
              |-LCDR3-|
```

```
QSGNSQESVTEQDSKDSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC



>TPP-8988 VH (PRT)
EVQLLESGGGLVQPGGSLRLSCAVSDYSITSGYYWNWIRQAPGKKLEWMGYISYDGSNNYNPSLKNGRITISRDTSKNTF
                              |----|              |-----HCDR2-----|
                              HCDR1

YLQMNSLRAEDTAVYYCARGEGFYFDSWGQGTLVTVSS
                   |------|
                   HCDR3

>TPP-8988 VL (PRT)
EIVLTQSPGTLSLSPGERATLSCKSSQSLFFGSTQKNYLAWYQQKPGQAPRLLIYWASTRESGIPDRFSGSGSGTDFTLT
                        |-----LCDR1-----|               |-----|
                                                        LCDR2

ISRLEPEDFAVYYCQQYYNYPWTFGQGTKLEIK
              |-LCDR3-|


>TPP-8988 Heavy Chain (PRT)
EVQLLESGGGLVQPGGSLRLSCAVSDYSITSGYYWNWIRQAPGKKLEWMGYISYDGSNNYNPSLKNGRITISRDTSKNTF
|-------------------------------------------------------VH--------------------
                              |----|              |-----HCDR2-----|
                              HCDR1

YLQMNSLRAEDTAVYYCARGEGFYFDSWGQGTLVTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWN
-------------------------------------|
                   |------|
                   HCDR3

SGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELLGGPS



VFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEY



KCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLD



SDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPG



>TPP-8988 Light Chain (PRT)
EIVLTQSPGTLSLSPGERATLSCKSSQSLFFGSTQKNYLAWYQQKPGQAPRLLIYWASTRESGIPDRFSGSGSGTDFTLT
|-----------------------------------------------------VL-----------------------
                        |-----LCDR1-----|               |-----|
                                                        LCDR2

ISRLEPEDFAVYYCQQYYNYPWTFGQGTKLEIKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNAL
---------------------------------|
              |-LCDR3-|
```

```
QSGNSQESVTEQDSKDSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC



>TPP-9476 VH (PRT)
QVQLVQSGAEVKKPGSSVKVSCKASGGTFSDYYMKWVRQAPGQGLEWMGDIIPSNGATFYNQKFKGRVTITADESTSTAY
                              |---|              |-----HCDR2-----|
                              HCDR1

MELSSLRSEDTAVYYCARSHLLRASWFAYWGQGTLVTVSS
                  |--HCDR3--|


>TPP-9476 VL (PRT)
DIVMTQSPDSLAVSLGERATINCESSQSVLNSGNQKNYLTWYQQKPGQPPKLLIYWASTRESGVPDRFSGSGSGTDFTLT
                        |-----LCDR1-----|               |-----|
                                                        LCDR2

ISSLQAEDVAVYYCQNDYSYPYTFGQGTKLEIK
              |-LCDR3-|


>TPP-9476 Heavy Chain (PRT)
QVQLVQSGAEVKKPGSSVKVSCKASGGTFSDYYMKWVRQAPGQGLEWMGDIIPSNGATFYNQKFKGRVTITADESTSTAY
|-------------------------------------------------------------VH-------------------
                              |---|              |-----HCDR2-----|
                              HCDR1

MELSSLRSEDTAVYYCARSHLLRASWFAYWGQGTLVTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVS
---------------------------------------|
                  |--HCDR3--|


WNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELLGG



PSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGK



EYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPV



LDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPG



>TPP-9476 Light Chain (PRT)
DIVMTQSPDSLAVSLGERATINCESSQSVLNSGNQKNYLTWYQQKPGQPPKLLIYWASTRESGVPDRFSGSGSGTDFTLT
|-----------------------------------------------------VL-----------------------
                        |-----LCDR1-----|               |-----|
                                                        LCDR2

ISSLQAEDVAVYYCQNDYSYPYTFGQGTKLEIKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNAL
---------------------------------|
              |-LCDR3-|
```

```
QSGNSQESVTEQDSKDSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC



>TPP-9574 VH (PRT)
EVQLVESGGGLIQPGGSLRLSCAASGFTFSTSGMHWFRQAPGKGLEWVAYISSSSGFVYADAVKGRFTISRDNSKNTLYL
                              |---|              |----HCDR2-----|
                              HCDR1

QMNSLRAEDTAVYYCARSEAAFWGQGTLVTVSS
                 |---|
                 HCDR3

>TPP-9574 VL (PRT)
DIVMTQSPLSLPVTPGEPASISCRSQKSRLSRMGITPLNWYLQKPGQSPQLLIYRMSNLASGVPDRFSGSGSGTDFTLKI
                        |----LCDR1-----|               |-----|
                                                      LCDR2

SRVEAEDVGVYYCAQFLEYPPTFGQGTKLEIK
             |-LCDR3-|


>TPP-9574 Heavy Chain (PRT)
EVQLVESGGGLIQPGGSLRLSCAASGFTFSTSGMHWFRQAPGKGLEWVAYISSSSGFVYADAVKGRFTISRDNSKNTLYL
|-----------------------------------------------------VH-----------------------
                              |---|              |----HCDR2-----|
                              HCDR1

QMNSLRAEDTAVYYCARSEAAFWGQGTLVTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALT
--------------------------------|
                 |---|
                 HCDR3

SGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELLGGPSVFLFP



PKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVS



NKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSF



FLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPG



>TPP-9574 Light Chain (PRT)
DIVMTQSPLSLPVTPGEPASISCRSQKSRLSRMGITPLNWYLQKPGQSPQLLIYRMSNLASGVPDRFSGSGSGTDFTLKI
|-----------------------------------------------------VL-----------------------
                        |----LCDR1-----|               |-----|
                                                      LCDR2

SRVEAEDVGVYYCAQFLEYPPTFGQGTKLEIKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQ
--------------------------------|
             |-LCDR3-|
```

```
SGNSQESVTEQDSKDSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC



>TPP-9580 VH (PRT)
EVQLVESGGGLIQPGGSLRLSCAASGFTFSTSGMHWVRQAPGKGLEWVSYISSSSGFVYADAVKGRFTISRDNSKNTLYL
                              |---|              |----HCDR2-----|
                              HCDR1

QMNSLRAEDTAVYYCARSEAAFWGQGTLVTVSS
                 |---|
                 HCDR3

>TPP-9580 VL (PRT)
DIVMTQSPLSLPVTPGEPASISCRSQKSRLSRMGITPLNWYLQKPGQSPQLLIYRMSNLASGVPDRFSGSGSGTDFTLKI
                        |----LCDR1-----|               |-----|
                                                      LCDR2

SRVEAEDVGVYYCAQFLEYPPTFGQGTKLEIK
             |-LCDR3-|


>TPP-9580 Heavy Chain (PRT)
EVQLVESGGGLIQPGGSLRLSCAASGFTFSTSGMHWVRQAPGKGLEWVSYISSSSGFVYADAVKGRFTISRDNSKNTLYL
|-----------------------------------------------------VH-----------------------
                              |---|              |----HCDR2-----|
                              HCDR1

QMNSLRAEDTAVYYCARSEAAFWGQGTLVTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALT
--------------------------------|
                 |---|
                 HCDR3

SGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELLGGPSVFLFP



PKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVS



NKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSF



FLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPG



>TPP-9580 Light Chain (PRT)
DIVMTQSPLSLPVTPGEPASISCRSQKSRLSRMGITPLNWYLQKPGQSPQLLIYRMSNLASGVPDRFSGSGSGTDFTLKI
|-----------------------------------------------------VL-----------------------
                        |----LCDR1-----|               |-----|
                                                      LCDR2

SRVEAEDVGVYYCAQFLEYPPTFGQGTKLEIKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQ
--------------------------------|
             |-LCDR3-|

SGNSQESVTEQDSKDSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC
```

Fig. 2

<SEQ ID NO:1>
QVQLKQSGPGLVQPSQSLSITCTVSGFSLTNYGVHWVRQSPGKGLEWLGVIWSGGNTDYNTPFTSR
LSINKDNSKSQVFFKMNSLQSNDTAIYYCARALTYYDYEFAYWGQGTLVTVSA

<SEQ ID NO:2>
NYGVH

<SEQ ID NO:3>
VIWSGGNTDYNTPFTS

<SEQ ID NO:4>
ALTYYDYEFAY

<SEQ ID NO:5>
DILLTQSPVILSVSPGERVSFSCRASQSIGTNIHWYQQRTNGSPRLLIKYASESISGIPSRFSGSG
SGTDFTLSINSVESEDIADYYCQQNNNWPTTFGAGTKLELK

<SEQ ID NO:6>
RASQSIGTNIH

<SEQ ID NO:7>
YASESIS

<SEQ ID NO:8>
QQNNNWPTT

<SEQ ID NO:9>
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LSINKDNSKSQVFFKMNSLQSNDTAIYYCARALTYYDYEFAYWGQGTLVTVSAASTKGPSVFPLAP
SSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQ
TYICNVNHKPSNTKVDKRVEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCV
VVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKAL
PAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTT
PPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

<SEQ ID NO:10>
DILLTQSPVILSVSPGERVSFSCRASQSIGTNIHWYQQRTNGSPRLLIKYASESISGIPSRFSGSG
SGTDFTLSINSVESEDIADYYCQQNNNWPTTFGAGTKLELKRTVAAPSVFIFPPSDEQLKSGTASV
VCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSKDSTYSLSSTLTLSKADYEKHKVYACEVTH
QGLSSPVTKSFNRGEC

<SEQ ID NO:11>
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<SEQ ID NO:12>
DTYIH

<SEQ ID NO:13>
RIYPTNGYTRYADSVKG

<SEQ ID NO:14>
WGGDGFYAMDY

<SEQ ID NO:15>
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SGTDFTLTISSLQPEDFATYYCQQHYTTPPTFGQGTKVEIK

<SEQ ID NO:16>
RASQDVNTAVA

<SEQ ID NO:17>
SASFLYS

<SEQ ID NO:18>
QQHYTTPPT

<SEQ ID NO:19>
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PSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGT
QTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTC
VVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKA
LPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKT
TPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

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SGTDFTLTISSLQPEDFATYYCQQHYTTPPTFGQGTKVEIKRTVAAPSVFIFPPSDEQLKSGTASV
VCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSKDSTYSLSSTLTLSKADYEKHKVYACEVTH
QGLSSPVTKSFNRGEC

<SEQ ID NO:21>
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RISITRDTSKNQFFLKLSSVTTEDTATYYCSRGEGFYFDSWGQGTTLTVSS

<SEQ ID NO:22>
SGYYWN

<SEQ ID NO:23>
YISYDGSNNYNPSLKN

<SEQ ID NO:24>
GEGFYFDS

<SEQ ID NO:25>
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RFTGSGSGTDFTLAISSVMPEDLAVYYCQQYYNYPWTFGGGTKLEIK

<SEQ ID NO:26>
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<SEQ ID NO:27>
WASTRES

<SEQ ID NO:28>
QQYYNYPWT

<SEQ ID NO:29>
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KSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTY
ICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVV
DVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPA
PIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPP
VLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPG

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RFTGSGSGTDFTLAISSVMPEDLAVYYCQQYYNYPWTFGGGTKLEIKRTVAAPSVFIFPPSDEQLK
SGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSKDSTYSLSSTLTLSKADYEKHKVY
ACEVTHQGLSSPVTKSFNRGEC

<SEQ ID NO:31>
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KATLTADKSSNTAYMQLSSLTSVDSAVYFCARRTIYYDYDGDYWGQGTTLTVSS

<SEQ ID NO:32>
DFIIA

<SEQ ID NO:33>
EIYPGTGRTYYSEKFRG

<SEQ ID NO:34>
RTIYYDYDGDY

<SEQ ID NO:35>
DIVMTQAAFSNPVTLGTSASISCRSSKSLLHSNGITYLYWYLQKPGQSPQLLIYQMSNLASGVPDR
FSSSGSGTDFTLRISRVEAEDVGVYYCAHNLELPWTFGGGTKLELK

<SEQ ID NO:36>
RSSKSLLHSNGITYLY

<SEQ ID NO:37>
QMSNLAS

<SEQ ID NO:38>
AHNLELPWT

<SEQ ID NO:39>
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KATLTADKSSNTAYMQLSSLTSVDSAVYFCARRTIYYDYDGDYWGQGTTLTVSSASTKGPSVFPLA
PSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGT
QTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTC
VVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKA
LPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKT
TPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPG

<SEQ ID NO:40>
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FSSSGSGTDFTLRISRVEAEDVGVYYCAHNLELPWTFGGGTKLELKRTVAAPSVFIFPPSDEQLKS
GTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSKDSTYSLSSTLTLSKADYEKHKVYA
CEVTHQGLSSPVTKSFNRGEC

<SEQ ID NO:41>
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KATLTADTSTSTAYMELSSLRSEDTAVYFCARRTIYYDYDGDYWGQGTLVTVSS

<SEQ ID NO:42>
DFIIA

<SEQ ID NO:43>
EIYPGTGRTYYSEKFRG

<SEQ ID NO:44>
RTIYYDYDGDY

<SEQ ID NO:45>
DIVMTQSPLSLPVTPGEPASISCRSSKSLLHSNGITYLYWYLQKPGQSPQLLIYQMSNLASGVPDR
FSGSGSGTDFTLKISRVEAEDVGVYYCAHNLELPWTFGQGTKVEIK

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<SEQ ID NO:47>
QMSNLAS

<SEQ ID NO:48>
AHNLELPWT

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KATLTADTSTSTAYMELSSLRSEDTAVYFCARRTIYYDYDGDYWGQGTLVTVSSASTKGPSVFPLA

PSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGT
QTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTC
VVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKA
LPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKT
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GTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSKDSTYSLSSTLTLSKADYEKHKVYA
CEVTHQGLSSPVTKSFNRGEC

<SEQ ID NO:51>
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RFTISRDNSKNTLYLQMNSLRAEDTAVYYCAKLTGTSFDYWGQGTLVTVSS

<SEQ ID NO:52>
SYAMS

<SEQ ID NO:53>
SISGSGGSTLYADSVKG

<SEQ ID NO:54>
LTGTSFDY

<SEQ ID NO:55>
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KSGTSASLAITGLQSEDEADYYCQSFDSSLKKVFGGGTKLTVL

<SEQ ID NO:56>
SGSSSNIGSNPVN

<SEQ ID NO:57>
SNNQRPS

<SEQ ID NO:58>
QSFDSSLKKV

<SEQ ID NO:59>
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KSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTY
ICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVV
DVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPA
PIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPP
VLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPG

<SEQ ID NO:60>
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ATLVCLISDFYPGAVTVAWKADSSPVKAGVETTTPSKQSNNKYAASSYLSLTPEQWKSHRSYSCQV
THEGSTVEKTVAPTECS

<SEQ ID NO:61>
QVQLVQSGAEVKKPGSSVKVSCKASGGTFSDYYMKWVRQAPGQGLEWMGDIIPSNGATFYNQKFKG
QVTITADESTSTAYMELSSLRSEDTAVYYCARSHLLRASWFAYWGQGTLVTVSS

<SEQ ID NO:62>
DYYMK

<SEQ ID NO:63>
DIIPSNGATFYNQKFKG

<SEQ ID NO:64>
SHLLRASWFAY

<SEQ ID NO:65>
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RFSGSGSGTDFTLTISSLQAEDVAVYYCQNDYSYPYTFGQGTKLEIK

<SEQ ID NO:66>
ESSQSVLNSGNQKNYLT

<SEQ ID NO:67>
WASTRES

<SEQ ID NO:68>
QNDYSYPYT

<SEQ ID NO:69>
QVQLVQSGAEVKKPGSSVKVSCKASGGTFSDYYMKWVRQAPGQGLEWMGDIIPSNGATFYNQKFKG
QVTITADESTSTAYMELSSLRSEDTAVYYCARSHLLRASWFAYWGQGTLVTVSSASTKGPSVFPLA
PSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGT
QTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTC
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GRITISRDTSKNTFYLQMNSLRAEDTAVYYCARGEGFYFDSWGQGTLVTVSS

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SGYYWN

<SEQ ID NO:73>
YISYDGSNNYNPSLKNG

<SEQ ID NO:74>
GEGFYFDS

<SEQ ID NO:75>
EIVLTQSPGTLSLSPGERATLSCKSSQSLFFGSTQKNYLAWYQQKPGQAPRLLIYWASTRESGIPD
RFSGSGSGTDFTLTISRLEPEDFAVYYCQQYYNYPWTFGQGTKLEIK

<SEQ ID NO:76>
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<SEQ ID NO:77>
WASTRES

<SEQ ID NO:78>
QQYYNYPWT

<SEQ ID NO:79>
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SKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQT
YICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVV
VDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALP
APIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTP
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RFSGSGSGTDFTLTISRLEPEDFAVYYCQQYYNYPWTFGQGTKLEIKRTVAAPSVFIFPPSDEQLK
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DYYMK

<SEQ ID NO:83>
DIIPSNGATFYNQKFKG

<SEQ ID NO:84>
SHLLRASWFAY

<SEQ ID NO:85>
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ESSQSVLNSGNQKNYLT

<SEQ ID NO:87>
WASTRES

<SEQ ID NO:88>
QNDYSYPYT

<SEQ ID NO:89>
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<SEQ ID NO:92>
TSGMH

<SEQ ID NO:93>
YISSSSGFVYADAVKG

<SEQ ID NO:94>
SEAAF

<SEQ ID NO:95>
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FSGSGSGTDFTLKISRVEAEDVGVYYCAQFLEYPPTFGQGTKLEIK

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<SEQ ID NO:97>
RMSNLAS

<SEQ ID NO:98>
AQFLEYPPT

<SEQ ID NO:99>
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EDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEK
TISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDS
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GTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSKDSTYSLSSTLTLSKADYEKHKVYA
CEVTHQGLSSPVTKSFNRGEC

<SEQ ID NO:101>
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<SEQ ID NO:102>
TSGMH

<SEQ ID NO:103>
YISSSSGFVYADAVKG

<SEQ ID NO:104>
SEAAF

<SEQ ID NO:105>
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FSGSGSGTDFTLKISRVEAEDVGVYYCAQFLEYPPTFGQGTKLEIK

<SEQ ID NO:106>
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GGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNV
NHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSH
EDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEK
TISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDS
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FSGSGSGTDFTLKISRVEAEDVGVYYCAQFLEYPPTFGQGTKLEIKRTVAAPSVFIFPPSDEQLKS
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CEVTHQGLSSPVTKSFNRGEC

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FVVFSQIEILTPPNMTAKCNKTHSFMHWKMRSHFNRKFRYELQIQKRMQPVITEQVRDRTSFQLLN

PGTYTVQIRARERVYEFLSAWSTPQRFECDQEEGANTRAWRTSLLIALGTLLALVCVFVICRRYLV
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<SEQ ID NO:112>
MNYPLTLEMDLENLEDLFWELDRLDNYNDTSLVENHLCPATEGPLMASFKAVFVPVAYSLIFLLGV
IGNVLVLVILERHRQTRSSTETFLFHLAVADLLLVFILPFAVAEGSVGWVLGTFLCKTVIALHKVN
FYCSSLLLACIAVDRYLAIVHAVHAYRHRRLLSIHITCGTIWLVGFLLALPEILFAKVSQGHHNNS
LPRCTFSQENQAETHAWFTSRFLYHVAGFLLPMLVMGWCYVGVVHRLRQAQRRPQRQKAVRVAILV
TSIFFLCWSPYHIVIFLDTLARLKAVDNTCKLNGSLPVAITMCEFLGLAHCCLNPMLYTFAGVKFR
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<SEQ ID NO:113>
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WQLTDTKQLVHSFAEGQDQGSAYANRTALFPDLLAQGNASLRLQRVRVADEGSFTCFVSIRDFGSA
AVSLQVAAPYSKPSMTLEPNKDLRPGDTVTITCSSYQGYPEAEVFWQDGQGVPLTGNVTTSQMANE
QGLFDVHSILRVVLGANGTYSCLVRNPVLQQDAHSSVTITPQRSPTGAVEVQVPEDPVVALVGTDA
TLRCSFSPEPGFSLAQLNLIWQLTDTKQLVHSFTEGRDQGSAYANRTALFPDLLAQGNASLRLQRV
RVADEGSFTCFVSIRDFGSAAVSLQVAAPYSKPSMTLEPNKDLRPGDTVTITCSSYRGYPEAEVFW
QDGQGVPLTGNVTTSQMANEQGLFDVHSVLRVVLGANGTYSCLVRNPVLQQDAHGSVTITGQPMTF
PPEALWVTVGLSVCLIALLVALAFVCWRKIKQSCEEENAGAEDQDGEGEGSKTALQPLKHSDSKED
DGQEIA

<SEQ ID NO:114>
MARGSLRRLLRLLVLGLWLALLRSVAGEQAPGTAPCSRGSSWSADLDKCMDCASCRARPHSDFCLG
CAAAPPAPFRLLWPILGGALSLTFVLGLLSGFLVWRRCRRREKFTTPIEETGGEGCPAVALIQ

<SEQ ID NO:115>
MELAALCRWGLLLALLPPGAASTQVCTGTDMKLRLPASPETHLDMLRHLYQGCQVVQGNLELTYLP
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SPGGLRELQLRSLTEILKGGVLIQRNPQLCYQDTILWKDIFHKNNQLALTLIDTNRSRACHPCSPM
CKGSRCWGESSEDCQSLTRTVCAGGCARCKGPLPTDCCHEQCAAGCTGPKHSDCLACLHFNHSGIC
ELHCPALVTYNTDTFESMPNPEGRYTFGASCVTACPYNYLSTDVGSCTLVCPLHNQEVTAEDGTQR
CEKCSKPCARVCYGLGMEHLREVRAVTSANIQEFAGCKKIFGSLAFLPESFDGDPASNTAPLQPEQ
LQVFETLEEITGYLYISAWPDSLPDLSVFQNLQVIRGRILHNGAYSLTLQGLGISWLGLRSLRELG
SGLALIHHNTHLCFVHTVPWDQLFRNPHQALLHTANRPEDECVGEGLACHQLCARGHCWGPGPTQC
VNCSQFLRGQECVEECRVLQGLPREYVNARHCLPCHPECQPQNGSVTCFGPEADQCVACAHYKDPP
FCVARCPSGVKPDLSYMPIWKFPDEEGACQPCPINCTHSCVDLDDKGCPAEQRASPLTSIISAVVG
ILLVVVLGVVFGILIKRRQQKIRKYTMRRLLQETELVEPLTPSGAMPNQAQMRILKETELRKVKVL
GSGAFGTVYKGIWIPDGENVKIPVAIKVLRENTSPKANKEILDEAYVMAGVGSPYVSRLLGICLTS
TVQLVTQLMPYGCLLDHVRENRGRLGSQDLLNWCMQIAKGMSYLEDVRLVHRDLAARNVLVKSPNH
VKITDFGLARLLDIDETEYHADGGKVPIKWMALESILRRRFTHQSDVWSYGVTVWELMTFGAKPYD
GIPAREIPDLLEKGERLPQPPICTIDVYMIMVKCWMIDSECRPRFRELVSEFSRMARDPQRFVVIQ
NEDLGPASPLDSTFYRSLLEDDDMGDLVDAEEYLVPQQGFFCPDPAPGAGGMVHHRHRSSSTRSGG
GDLTLGLEPSEEEAPRSPLAPSEGAGSDVFDGDLGMGAAKGLQSLPTHDPSPLQRYSEDPTVPLPS
ETDGYVAPLTCSPQPEYVNQPDVRPQPPSPREGPLPAARPAGATLERPKTLSPGKNGVVKDVFAFG
GAVENPEYLTPQGGAAPQPHPPPAFSPAFDNLYYWDQDPPERGAPPSTFKGTPTAENPEYLGLDVP
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<SEQ ID NO:116>
MRPSGTAGAALLALLAALCPASRALEEKKVCQGTSNKLTQLGTFEDHFLSLQRMFNNCEVVLGNLE
ITYVQRNYDLSFLKTIQEVAGYVLIALNTVERIPLENLQIIRGNMYYENSYALAVLSNYDANKTGL
KELPMRNLQEILHGAVRFSNNPALCNVESIQWRDIVSSDFLSNMSMDFQNHLGSCQKCDPSCPNGS
CWGAGEENCQKLTKIICAQQCSGRCRGKSPSDCCHNQCAAGCTGPRESDCLVCRKFRDEATCKDTC

PPLMLYNPTTYQMDVNPEGKYSFGATCVKKCPRNYVVTDHGSCVRACGADSYEMEEDGVRKCKKCE
GPCRKVCNGIGIGEFKDSLSINATNIKHFKNCTSISGDLHILPVAFRGDSFTHTPPLDPQELDILK
TVKEITGFLLIQAWPENRTDLHAFENLEIIRGRTKQHGQFSLAVVSLNITSLGLRSLKEISDGDVI
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VSRGRECVDKCNLLEGEPREFVENSECIQCHPECLPQAMNITCTGRGPDNCIQCAHYIDGPHCVKT
CPAGVMGENNTLVWKYADAGHVCHLCHPNCTYGCTGPGLEGCPTNGPKIPSIATGMVGALLLLLVV
ALGIGLFMRRRHIVRKRTLRRLLQERELVEPLTPSGEAPNQALLRILKETEFKKIKVLGSGAFGTV
YKGLWIPEGEKVKIPVAIKELREATSPKANKEILDEAYVMASVDNPHVCRLLGICLTSTVQLITQL
MPFGCLLDYVREHKDNIGSQYLLNWCVQIAKGMNYLEDRRLVHRDLAARNVLVKTPQHVKITDFGL
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SILEKGERLPQPPICTIDVYMIMVKCWMIDADSRPKFRELIIEFSKMARDPQRYLVIQGDERMHLP
SPTDSNFYRALMDEEDMDDVVDADEYLIPQQGFFSSPSTSRTPLLSSLSATSNNSTVACIDRNGLQ
SCPIKEDSFLQRYSSDPTGALTEDSIDDTFLPVPEYINQSVPKRPAGSVQNPVYHNQPLNPAPSRD
PHYQDPHSTAVGNPEYLNTVQPTCVNSTFDSPAHWAQKGSHQISLDNPDYQQDFFPKEAKPNGIFK
GSTAENAEYLRVAPQSSEFIGA