Figures

Fig. 1/4

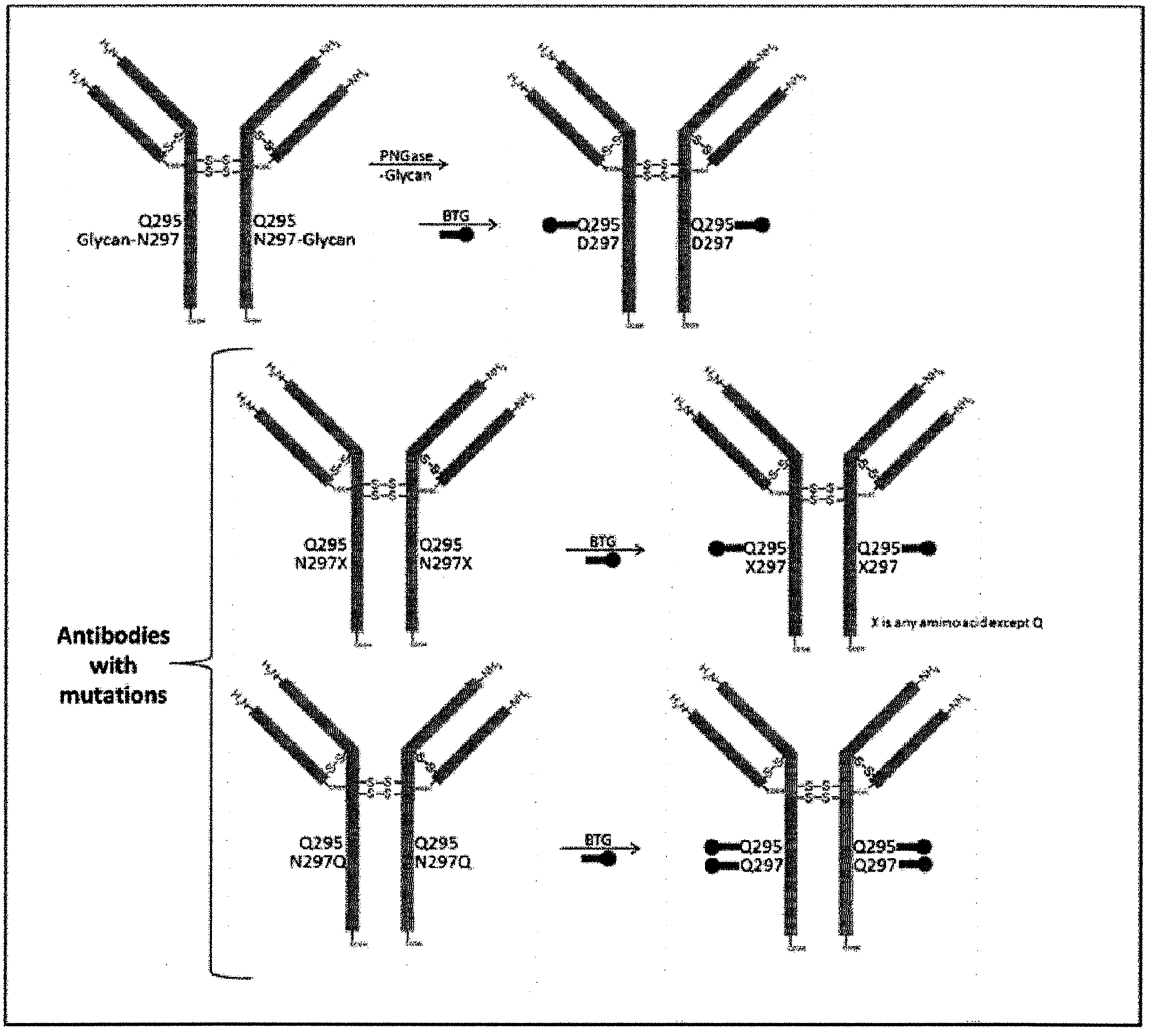


Fig. 2/4

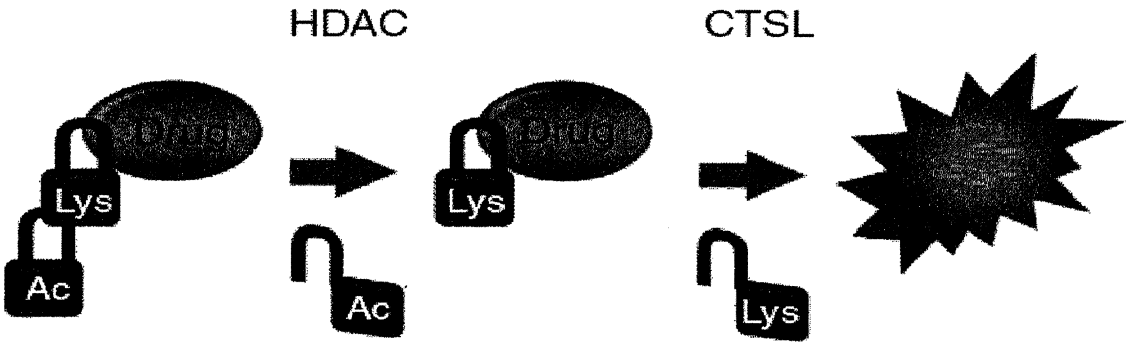


Fig. 3/4

```
>TPP-981 VH (PRT)
QVQLKQSGPGLVQPSQSLSITCTVSGFSLTNYGVHWVRQSPGKGLEWLGVIWSGGNTDYNTPFTSRLSINKDNSKSQVFF
                                |---|               |----HCDR2-----|
                                HCDR1

KMNSLQSNDTAIYYCARALTYYDYEFAYWGQGTLVTVSA
                |--HCDR3--|


>TPP-981 VL (PRT)
DILLTQSPVILSVSPGERVSFSCRASQSIGTNIHWYQQRTNGSPRLLIKYASESISGIPSRFSGSGSGTDFTLSINSVES
                        |--LCDR1--|               |-----|
                                                  LCDR2

EDIADYYCQQNNNWPTTFGAGTKLELK
        |-LCDR3-|


>TPP-981 Heavy Chain (PRT)
QVQLKQSGPGLVQPSQSLSITCTVSGFSLTNYGVHWVRQSPGKGLEWLGVIWSGGNTDYNTPFTSRLSINKDNSKSQVFF
|-----------------------------------------------------------VH--------------------
                                |---|               |----HCDR2-----|
                                HCDR1

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-2090 VH (PRT)
EVQLLESGGGLVQPGGSLRLSCAASGFTFSPYPMIWVRQAPGKGLEWVSYISPSGGSTHYADSVKGRFTISRDNSKNTLY
                                |---|               |-----HCDR2-----|
                                HCDR1

LQMNSLRAEDTAVYYCARGGDTYFDYFDYWGQGTLVTVSS
                  |--HCDR3--|
```

```
>TPP-2090 VL (PRT)
DIQMTQSPSSLSASVGDRVTITCRASQSISGYLNWYQQKPGKAPKLLIYQASSLQSGVPSRFSGSGSGTDFTLTISSLQP
                         |--LCDR1--|                |-----|
                                                    LCDR2

EDFATYYCQQSYTSPFITFGQGTKVEIK
        |-LCDR3--|

>TPP-2090 Heavy Chain (PRT)
EVQLLESGGGLVQPGGSLRLSCAASGFTFSPYPMIWVRQAPGKGLEWVSYISPSGGSTHYADSVKGRFTISRDNSKNTLY
|-----------------------------------------------------------VH------------------
                                |---|              |-----HCDR2-----|
                                HCDR1

LQMNSLRAEDTAVYYCARGGDTYFDYFDYWGQGTLVTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVS
-------------------------------------|
                    |--HCDR3--|

WNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELLGG


PSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGK


EYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPV


LDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK


>TPP-2090 Light Chain (PRT)
DIQMTQSPSSLSASVGDRVTITCRASQSISGYLNWYQQKPGKAPKLLIYQASSLQSGVPSRFSGSGSGTDFTLTISSLQP
|-----------------------------------------------------VL------------------------
                         |--LCDR1--|                |-----|
                                                    LCDR2

EDFATYYCQQSYTSPFITFGQGTKVEIKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNS
---------------------------|
        |-LCDR3--|

QESVTEQDSKDSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC


>TPP-2658 VH (PRT)
EVQLLESGGGLVQPGGSLRLSCAASGFTFSPYPMIWVRQAPGKGLEWVSYISPSGGSTHYADSVKGRFTISRDNSKNTLY
                                |---|              |-----HCDR2-----|
                                HCDR1

LQMNSLRAEDTAVYYCARGGDTYFDYFDYWGQGTLVTVSS
                    |--HCDR3--|
```

```
>TPP-2658 VL (PRT)
DIQMTQSPSSLSASVGDRVTITCRASQSISGYLNWYQQKPGKAPKLLIYQASSLQSGVPSRFSGSGSGTDFTLTISSLQP
                          |--LCDR1--|                |-----|
                                                     LCDR2

EDFATYYCQQSYTSPFITFGQGTKVEIK
        |-LCDR3--|


>TPP-2658 Heavy Chain (PRT)
EVQLLESGGGLVQPGGSLRLSCAASGFTFSPYPMIWVRQAPGKGLEWVSYISPSGGSTHYADSVKGRFTISRDNSKNTLY
|-----------------------------------------------------------VH--------------------
                                  |---|                |-----HCDR2-----|
                                  HCDR1

LQMNSLRAEDTAVYYCARGGDTYFDYFDYWGQGTLVTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVS
---------------------------------------|
                    |--HCDR3--|

WNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELLGG


PSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYASTYRVVSVLTVLHQDWLNGK


EYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPV


LDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPG


>TPP-2658 Light Chain (PRT)
DIQMTQSPSSLSASVGDRVTITCRASQSISGYLNWYQQKPGKAPKLLIYQASSLQSGVPSRFSGSGSGTDFTLTISSLQP
|-----------------------------------------------VL------------------------
                          |--LCDR1--|                |-----|
                                                     LCDR2

EDFATYYCQQSYTSPFITFGQGTKVEIKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNS
---------------------------|
        |-LCDR3--|

QESVTEQDSKDSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC


>TPP-5442 VH (PRT)
EVQLLESGGGLVQPGGSLRLSCAASGFTFSPYPMIWVRQAPGKGLEWVSYISPSGGSTHYADSVKGRFTISRDNSKNTLY
                                  |---|                |-----HCDR2-----|
                                  HCDR1

LQMNSLRAEDTAVYYCARGGDTYFDYFDYWGQGTLVTVSS
                    |--HCDR3--|


>TPP-5442 VL (PRT)
DIQMTQSPSSLSASVGDRVTITCRASQSISGYLNWYQQKPGKAPKLLIYQASSLQSGVPSRFSGSGSGTDFTLTISSLQP
                          |--LCDR1--|                |-----|
                                                     LCDR2

EDFATYYCQQSYTSPFITFGQGTKVEIK
        |-LCDR3--|
```


>TFP-5442 Heavy Chain (PRT)
VH
HCDR1
HCDR2
HCDR3
>TFP-5442 Light Chain (PRT)
VL
LCDR1
LCDR2
LCDR3
>TFP-9006 VH (PRT)
VH
HCDR1
HCDR2
HCDR3
>TFP-9006 VL (PRT)
VL
LCDR1
LCDR2
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-7510 VH (PRT)
EVQLVESGGGLVQPGGSLRLSCAASGFNIKDTYIHWVRQAPGKGLEWVARIYPTNGYTRYADSVKGRFTISADTSKNTAY
                                |---|               |-----HCDR2-----|
                                HCDR1

LQMNSLRAEDTAVYYCSRWGGDGFYAMDYWGQGTLVTVSS
                    |--HCDR3--|

>TPP-7510 VL (PRT)
DIQMTQSPSSLSASVGDRVTITCRASQDVNTAVAWYQQKPGKAPKLLIYSASFLYSGVPSRFSGSRSGTDFTLTISSLQP
                        |--LCDR1--|                |-----|
                                                   LCDR2

EDFATYYCQQHYTTPPTFGQGTKVEIK
        |-LCDR3-|
```

```
>TPP-7510 Heavy Chain (PRT)
EVQLVESGGGLVQPGGSLRLSCAASGFNIKDTYIHWVRQAPGKGLEWVARIYPTNGYTRYADSVKGRFTISADTSKNTAY
|-----------------------------------------------------------VH------------------
                                |---|              |-----HCDR2-----|
                                HCDR1

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

WNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELLGG


PSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYASTYRVVSVLTVLHQDWLNGK


EYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPV


LDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPG


>TPP-7510 Light Chain (PRT)
DIQMTQSPSSLSASVGDRVTITCRASQDVNTAVAWYQQKPGKAPKLLIYSASFLYSGVPSRFSGSRSGTDFTLTISSLQP
|-------------------------------------------------VL-------------------------
                        |--LCDR1--|               |-----|
                                                  LCDR2

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

ESVTEQDSKDSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC


>TPP-7511 VH (PRT)
EVQLVESGGGLVQPGGSLRLSCAASGFNIKDTYIHWVRQAPGKGLEWVARIYPTNGYTRYADSVKGRFTISADTSKNTAY
                                |---|              |-----HCDR2-----|
                                HCDR1

LQMNSLRAEDTAVYYCSRWGGDGFYAMDYWGQGTLVTVSS
                  |--HCDR3--|

>TPP-7511 VL (PRT)
DIQMTQSPSSLSASVGDRVTITCRASQDVNTAVAWYQQKPGKAPKLLIYSASFLYSGVPSRFSGSRSGTDFTLTISSLQP
                        |--LCDR1--|               |-----|
                                                  LCDR2

EDFATYYCQQHYTTPPTFGQGTKVEIK
        |-LCDR3-|
```

```
>TPP-7511 Heavy Chain (PRT)
EVQLVESGGGLVQPGGSLRLSCAASGFNIKDTYIHWVRQAPGKGLEWVARIYPTNGYTRYADSVKGRFTISADTSKNTAY
|-----------------------------------------------------------VH------------------
                                |---|              |-----HCDR2-----|
                                HCDR1

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

WNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELLGG


PSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYQSTYRVVSVLTVLHQDWLNGK


EYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPV


LDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPG


>TPP-7511 (PRT)
DIQMTQSPSSLSASVGDRVTITCRASQDVNTAVAWYQQKPGKAPKLLIYSASFLYSGVPSRFSGSRSGTDFTLTISSLQP
|-----------------------------------------------VL-------------------------
                        |--LCDR1--|               |-----|
                                                  LCDR2

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

ESVTEQDSKDSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC


>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-8567 VH (PRT)
EVQLLESGGGLVQPGGSLRLSCAASGFTFSSYAMSWVRQAPGKGLEWVSSISGSGGSTLYADSVKGRFTISRDNSKNTLY
                               |---|              |-----HCDR2-----|
                               HCDR1

LQMNSLRAEDTAVYYCAKLTGTSFDYWGQGTLVTVSS
                   |------|
                   HCDR3

>TPP-8567 VL (PRT)
QSVLTQPPSASGTPGQRVTISCSGSSSNIGSNPVNWYQQLPGTAPKLLIYSNNQRPSGVPDRFSGSKSGTSASLAITGLQ
                       |---LCDR1---|               |-----|
                                                   LCDR2

SEDEADYYCQSFDSSLKKVFGGGTKLTVL
         |-LCDR3--|
```

```
>TPP-8567 Heavy Chain (PRT)
EVQLLESGGGLVQPGGSLRLSCAASGFTFSSYAMSWVRQAPGKGLEWVSSISGSGGSTLYADSVKGRFTISRDNSKNTLY
|-----------------------------------------------------VH--------------------
                               |---|              |-----HCDR2-----|
                               HCDR1

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

GALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELLGGPSV


FLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYQSTYRVVSVLTVLHQDWLNGKEYK


CKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDS


DGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPG


>TPP-8567 Light Chain (PRT)
QSVLTQPPSASGTPGQRVTISCSGSSSNIGSNPVNWYQQLPGTAPKLLIYSNNQRPSGVPDRFSGSKSGTSASLAITGLQ
|-----------------------------------------------------VL-------------------------
                       |---LCDR1---|               |-----|
                                                   LCDR2

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

GVETTTPSKQSNNKYAASSYLSLTPEQWKSHRSYSCQVTHEGSTVEKTVAPTECS


>TPP-8825 VH (PRT)
EVQLLESGGGLVQPGGSLRLSCAASGFTFSPYPMIWVRQAPGKGLEWVSYISPSGGSTHYADSVKGRFTISRDNSKNTLY
                               |---|              |-----HCDR2-----|
                               HCDR1

LQMNSLRAEDTAVYYCARGGDTYFDYFDYWGQGTLVTVSS
                  |--HCDR3--|


>TPP-8825 VL (PRT)
DIQMTQSPSSLSASVGDRVTITCRASQSISGYLNWYQQKPGKAPKLLIYQASSLQSGVPSRFSGSGSGTDFTLTISSLQP
                         |--LCDR1--|               |-----|
                                                   LCDR2

EDFATYYCQQSYTSPFITFGQGTKVEIK
        |-LCDR3--|
```

```
>TPP-8825 Heavy Chain (PRT)
EVQLLESGGGLVQPGGSLRLSCAASGFTFSPYPMIWVRQAPGKGLEWVSYISPSGGSTHYADSVKGRFTISRDNSKNTLY
|-----------------------------------------------------------VH------------------
                                |---|               |-----HCDR2-----|
                                HCDR1

LQMNSLRAEDTAVYYCARGGDTYFDYFDYWGQGTLVTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVS
--------------------------------------|
                    |--HCDR3--|

WNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELLGG


PSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREENYQSTYRVVSVLTVLHQDWLNGK


EYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPV


LDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPG


>TPP-8825 Light Chain (PRT)
DIQMTQSPSSLSASVGDRVTITCRASQSISGYLNWYQQKPGKAPKLLIYQASSLQSGVPSRFSGSGSGTDFTLTISSLQP
|-------------------------------------------------VL-------------------------
                        |--LCDR1--|               |-----|
                                                  LCDR2

EDFATYYCQQSYTSPFITFGQGTKVEIKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNS
--------------------------|
        |-LCDR3--|

QESVTEQDSKDSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC


>TPP-10334 VH (PRT)
QVQLVQSGAEVKKPGASVKVSCKASGYTFTDFIIAWVKQAPGQGLEWIGEIYPGTGRTYYSEKFRGKATLTADTSTSTAY
                                |---|               |-----HCDR2-----|
                                HCDR1

MELSSLRSEDTAVYFCARRTIYYDYDGDYWGQGTLVTVSS
                    |--HCDR3--|

>TPP-10334 VL (PRT)
DIVMTQSPLSLPVTPGEPASISCRSSQSLLHSNGITYLYWYLQKPGQSPQLLIYQMSNRASGVPDRFSGSGSGTDFTLKI
                        |----LCDR1-----|               |-----|
                                                      LCDR2

SRVEAEDVGVYYCAHNLELPWTFGQGTKVEIK
             |-LCDR3-|
```

```
>TPP-10334 Heavy Chain (PRT)
QVQLVQSGAEVKKPGASVKVSCKASGYTFTDFIIAWVKQAPGQGLEWIGEIYPGTGRTYYSEKFRGKATLTADTSTSTAY
|-----------------------------------------------------VH------------------
                                |---|              |-----HCDR2-----|
                                HCDR1

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

WNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELLGG


PSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGK


EYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPV


LDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPG


>TPP-10334 Light Chain (PRT)
DIVMTQSPLSLPVTPGEPASISCRSSQSLLHSNGITYLYWYLQKPGQSPQLLIYQMSNRASGVPDRFSGSGSGTDFTLKI
|-----------------------------------------------------VL----------------------
                         |----LCDR1-----|              |-----|
                                                      LCDR2

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

SGNSQESVTEQDSKDSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC


>TPP-10335 VH (PRT)
QVQLVQSGAEVKKPGASVKVSCKASGYTFTDFIIAWVKQAPGQGLEWIGEIYPGTGRTYYSEKFRGKATLTADTSTSTAY
                                |---|              |-----HCDR2-----|
                                HCDR1

MELSSLRSEDTAVYFCARRTIYYDYDGDYWGQGTLVTVSS
                   |--HCDR3--|

>TPP-10335 VL (PRT)
DIVMTQSPLSLPVTPGEPASISCRSSQSLLHSNGINYLYWYLQKPGQSPQLLIYQMSNRASGVPDRFSGSGSGTDFTLKI
                         |----LCDR1-----|              |-----|
                                                      LCDR2

SRVEAEDVGVYYCAHNLELPWTFGQGTKVEIK
              |-LCDR3-|
```

```
>TPP-10335 Heavy Chain (PRT)
QVQLVQSGAEVKKPGASVKVSCKASGYTFTDFIIAWVKQAPGQGLEWIGEIYPGTGRTYYSEKFRGKATLTADTSTSTAY
|-----------------------------------------------------------VH-------------------
                                |---|               |-----HCDR2-----|
                                HCDR1

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

WNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELLGG


PSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGK


EYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPV


LDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPG


>TPP-10335 Light Chain (PRT)
DIVMTQSPLSLPVTPGEPASISCRSSQSLLHSNGINYLYWYLQKPGQSPQLLIYQMSNRASGVPDRFSGSGSGTDFTLKI
|-----------------------------------------------------VL-----------------------
                         |----LCDR1-----|                |-----|
                                                         LCDR2

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

SGNSQESVTEQDSKDSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC


>TPP-10336 VH (PRT)
QVQLVQSGAEVKKPGASVKVSCKASGYTFTDFIIAWVKQAPGQGLEWIGEIYPGTGRTYYSEKFRGKATLTADTSTSTAY
                                |---|               |-----HCDR2-----|
                                HCDR1

MELSSLRSEDTAVYFCARRTIYYDYDGDYWGQGTLVTVSS
                    |--HCDR3--|


>TPP-10336 VL (PRT)
DIVMTQSPLSLPVTPGEPASISCRSSQSLLHSNWINYLYWYLQKPGQSPQLLIYQMSNRASGVPDRFSGSGSGTDFTLKI
                         |----LCDR1-----|                |-----|
                                                         LCDR2

SRVEAEDVGVYYCAHNLELPWTFGQGTKVEIK
              |-LCDR3-|
```

```
>TPP-10336 Heavy Chain (PRT)
QVQLVQSGAEVKKPGASVKVSCKASGYTFTDFIIAWVKQAPGQGLEWIGEIYPGTGRTYYSEKFRGKATLTADTSTSTAY
|-------------------------------------------------------------VH------------------
                               |---|              |-----HCDR2-----|
                               HCDR1

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

WNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELLGG


PSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGK


EYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPV


LDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPG


>TPP-10336 Light Chain (PRT)
DIVMTQSPLSLPVTPGEPASISCRSSQSLLHSNWINYLYWYLQKPGQSPQLLIYQMSNRASGVPDRFSGSGSGTDFTLKI
|-----------------------------------------------------VL----------------------
                        |----LCDR1-----|               |-----|
                                                       LCDR2

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

SGNSQESVTEQDSKDSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC


>TPP-10337 VH (PRT)
QVQLVQSGAEVKKPGASVKVSCKASGYTFTDFIIAWVKQAPGQGLEWIGEIYPGTGRTYYSEKFRGKATLTADTSTSTAY
                               |---|              |-----HCDR2-----|
                               HCDR1

MELSSLRSEDTAVYFCARRTIYYDYDGDYWGQGTLVTVSS
                   |--HCDR3--|

>TPP-10337 VL (PRT)
DIVMTQSPLSLPVTPGEPASISCRSSQSLLHSNWINYLYWYLQKPGQSPQLLIYQGSNRASGVPDRFSGSGSGTDFTLKI
                        |----LCDR1-----|               |-----|
                                                       LCDR2

SRVEAEDVGVYYCAHNLELPWTFGQGTKVEIK
              |-LCDR3-|
```

```
>TPP-10337 Heavy Chain (PRT)
QVQLVQSGAEVKKPGASVKVSCKASGYTFTDFIIAWVKQAPGQGLEWIGEIYPGTGRTYYSEKFRGKATLTADTSTSTAY
|-----------------------------------------------------------VH------------------
                               |---|             |-----HCDR2-----|
                               HCDR1

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

WNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELLGG

PSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGK

EYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPV

LDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPG


>TPP-10337 Light Chain (PRT)
DIVMTQSPLSLPVTPGEPASISCRSSQSLLHSNWINYLYWYLQKPGQSPQLLIYQGSNRASGVPDRFSGSGSGTDFTLKI
|-----------------------------------------------------VL----------------------
                       |----LCDR1-----|              |-----|
                                                     LCDR2

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

SGNSQESVTEQDSKDSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC
```

Fig. 4/4

<SEQ ID NO:1>
QVQLKQSGPGLVQPSQSLSITCTVSGFSLTNYGVHWVRQSPGKGLEWLGVIWSGGNTDYNTPFTSRLSINKDN
SKSQVFFKMNSLQSNDTAIYYCARALTYYDYEFAYWGQGTLVTVSA

<SEQ ID NO:2>
NYGVH

<SEQ ID NO:3>
VIWSGGNTDYNTPFTS

<SEQ ID NO:4>
ALTYYDYEFAY

<SEQ ID NO:5>
DILLTQSPVILSVSPGERVSFSCRASQSIGTNIHWYQQRTNGSPRLLIKYASESISGIPSRFSGSGSGTDFTL
SINSVESEDIADYYCQQNNNWPTTFGAGTKLELK

<SEQ ID NO:6>
RASQSIGTNIH

<SEQ ID NO:7>
YASESIS

<SEQ ID NO:8>
QQNNNWPTT

<SEQ ID NO:9>
QVQLKQSGPGLVQPSQSLSITCTVSGFSLTNYGVHWVRQSPGKGLEWLGVIWSGGNTDYNTPFTSRLSINKDN
SKSQVFFKMNSLQSNDTAIYYCARALTYYDYEFAYWGQGTLVTVSAASTKGPSVFPLAPSSKSTSGGTAALGC
LVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKRVEP
KSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTK
PREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQV
SLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHY
TQKSLSLSPGK

<SEQ ID NO:10>
DILLTQSPVILSVSPGERVSFSCRASQSIGTNIHWYQQRTNGSPRLLIKYASESISGIPSRFSGSGSGTDFTL
SINSVESEDIADYYCQQNNNWPTTFGAGTKLELKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKV
QWKVDNALQSGNSQESVTEQDSKDSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC

<SEQ ID NO:11>
EVQLVESGGGLVQPGGSLRLSCAASGFNIKDTYIHWVRQAPGKGLEWVARIYPTNGYTRYADSVKGRFTISAD
TSKNTAYLQMNSLRAEDTAVYYCSRWGGDGFYAMDYWGQGTLVTVSS

<SEQ ID NO:12>
DTYIH

<SEQ ID NO:13>
RIYPTNGYTRYADSVKG

<SEQ ID NO:14>
WGGDGFYAMDY

<SEQ ID NO:15>
DIQMTQSPSSLSASVGDRVTITCRASQDVNTAVAWYQQKPGKAPKLLIYSASFLYSGVPSRFSGSRSGTDFTL
TISSLQPEDFATYYCQQHYTTPPTFGQGTKVEIK

<SEQ ID NO:16>
RASQDVNTAVA

<SEQ ID NO:17>
SASFLYS

<SEQ ID NO:18>
QQHYTTPPT

<SEQ ID NO:19>
EVQLVESGGGLVQPGGSLRLSCAASGFNIKDTYIHWVRQAPGKGLEWVARIYPTNGYTRYADSVKGRFTISAD
TSKNTAYLQMNSLRAEDTAVYYCSRWGGDGFYAMDYWGQGTLVTVSSASTKGPSVFPLAPSSKSTSGGTAALG
CLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVE
PKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKT
KPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQ
VSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNH
YTQKSLSLSPGK

<SEQ ID NO:20>
DIQMTQSPSSLSASVGDRVTITCRASQDVNTAVAWYQQKPGKAPKLLIYSASFLYSGVPSRFSGSRSGTDFTL
TISSLQPEDFATYYCQQHYTTPPTFGQGTKVEIKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKV
QWKVDNALQSGNSQESVTEQDSKDSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC

<SEQ ID NO:21>
EVQLLESGGGLVQPGGSLRLSCAASGFTFSPYPMIWVRQAPGKGLEWVSYISPSGGSTHYADSVKGRFTISRD
NSKNTLYLQMNSLRAEDTAVYYCARGGDTYFDYFDYWGQGTLVTVSS

<SEQ ID NO:22>
PYPMI

<SEQ ID NO:23>
YISPSGGSTHYADSVKG

<SEQ ID NO:24>
GGDTYFDYFDY

<SEQ ID NO:25>
DIQMTQSPSSLSASVGDRVTITCRASQSISGYLNWYQQKPGKAPKLLIYQASSLQSGVPSRFSGSGSGTDFTL
TISSLQPEDFATYYCQQSYTSPFITFGQGTKVEIK

<SEQ ID NO:26>
RASQSISGYLN

<SEQ ID NO:27>
QASSLQS

<SEQ ID NO:28>
QQSYTSPFIT

<SEQ ID NO:29>
EVQLLESGGGLVQPGGSLRLSCAASGFTFSPYPMIWVRQAPGKGLEWVSYISPSGGSTHYADSVKGRFTISRD
NSKNTLYLQMNSLRAEDTAVYYCARGGDTYFDYFDYWGQGTLVTVSSASTKGPSVFPLAPSSKSTSGGTAALG
CLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVE
PKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKT
KPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQ
VSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNH
YTQKSLSLSPGK

<SEQ ID NO:30>
DIQMTQSPSSLSASVGDRVTITCRASQSISGYLNWYQQKPGKAPKLLIYQASSLQSGVPSRFSGSGSGTDFTL
TISSLQPEDFATYYCQQSYTSPFITFGQGTKVEIKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAK
VQWKVDNALQSGNSQESVTEQDSKDSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC

<SEQ ID NO:31>
EVQLLESGGGLVQPGGSLRLSCAASGFTFSPYPMIWVRQAPGKGLEWVSYISPSGGSTHYADSVKGRFTISRD
NSKNTLYLQMNSLRAEDTAVYYCARGGDTYFDYFDYWGQGTLVTVSS

<SEQ ID NO:32>
PYPMI

<SEQ ID NO:33>
YISPSGGSTHYADSVKG

<SEQ ID NO:34>
GGDTYFDYFDY

<SEQ ID NO:35>
DIQMTQSPSSLSASVGDRVTITCRASQSISGYLNWYQQKPGKAPKLLIYQASSLQSGVPSRFSGSGSGTDFTL
TISSLQPEDFATYYCQQSYTSPFITFGQGTKVEIK

<SEQ ID NO:36>
RASQSISGYLN

<SEQ ID NO:37>
QASSLQS

<SEQ ID NO:38>
QQSYTSPFIT

<SEQ ID NO:39>
EVQLLESGGGLVQPGGSLRLSCAASGFTFSPYPMIWVRQAPGKGLEWVSYISPSGGSTHYADSVKGRFTISRD
NSKNTLYLQMNSLRAEDTAVYYCARGGDTYFDYFDYWGQGTLVTVSSASTKGPSVFPLAPSSKSTSGGTAALG
CLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVE
PKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKT
KPREEQYASTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQ
VSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNH
YTQKSLSLSPG

<SEQ ID NO:40>
DIQMTQSPSSLSASVGDRVTITCRASQSISGYLNWYQQKPGKAPKLLIYQASSLQSGVPSRFSGSGSGTDFTL
TISSLQPEDFATYYCQQSYTSPFITFGQGTKVEIKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAK
VQWKVDNALQSGNSQESVTEQDSKDSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC

<SEQ ID NO:41>
EVQLLESGGGLVQPGGSLRLSCAASGFTFSPYPMIWVRQAPGKGLEWVSYISPSGGSTHYADSVKGRFTISRD
NSKNTLYLQMNSLRAEDTAVYYCARGGDTYFDYFDYWGQGTLVTVSS

<SEQ ID NO:42>
PYPMI

<SEQ ID NO:43>
YISPSGGSTHYADSVKG

<SEQ ID NO:44>
GGDTYFDYFDY

<SEQ ID NO:45>
DIQMTQSPSSLSASVGDRVTITCRASQSISGYLNWYQQKPGKAPKLLIYQASSLQSGVPSRFSGSGSGTDFTL
TISSLQPEDFATYYCQQSYTSPFITFGQGTKVEIK

<SEQ ID NO:46>
RASQSISGYLN

<SEQ ID NO:47>
QASSLQS

<SEQ ID NO:48>
QQSYTSPFIT

<SEQ ID NO:49>
EVQLLESGGGLVQPGGSLRLSCAASGFTFSPYPMIWVRQAPGKGLEWVSYISPSGGSTHYADSVKGRFTISRD
NSKNTLYLQMNSLRAEDTAVYYCARGGDTYFDYFDYWGQGTLVTVSSASTKGPSVFPLAPSSKSTSGGTAALG
CLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVE
PKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKT
KPREEQYQSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQ
VSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNH
YTQKSLSLSPG

<SEQ ID NO:50>
DIQMTQSPSSLSASVGDRVTITCRASQSISGYLNWYQQKPGKAPKLLIYQASSLQSGVPSRFSGSGSGTDFTL
TISSLQPEDFATYYCQQSYTSPFITFGQGTKVEIKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAK
VQWKVDNALQSGNSQESVTEQDSKDSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC

<SEQ ID NO:51>
QVQLQQSGPELVKPGASVKMSCKASGYTFTDFIIAWVKQRTGQGLEWIGEIYPGTGRTYYSEKFRGKATLTAD
KSSNTAYMQLSSLTSVDSAVYFCARRTIYYDYDGDYWGQGTTLTVSS

<SEQ ID NO:52>
DFIIA

<SEQ ID NO:53>
EIYPGTGRTYYSEKFRG

<SEQ ID NO:54>
RTIYYDYDGDY

<SEQ ID NO:55>
DIVMTQAAFSNPVTLGTSASISCRSSKSLLHSNGITYLYWYLQKPGQSPQLLIYQMSNLASGVPDRFSSSGSG
TDFTLRISRVEAEDVGVYYCAHNLELPWTFGGGTKLELK

<SEQ ID NO:56>
RSSKSLLHSNGITYLY

<SEQ ID NO:57>
QMSNLAS

<SEQ ID NO:58>
AHNLELPWT

<SEQ ID NO:59>
QVQLQQSGPELVKPGASVKMSCKASGYTFTDFIIAWVKQRTGQGLEWIGEIYPGTGRTYYSEKFRGKATLTAD
KSSNTAYMQLSSLTSVDSAVYFCARRTIYYDYDGDYWGQGTTLTVSSASTKGPSVFPLAPSSKSTSGGTAALG
CLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVE

PKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKT
KPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQ
VSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNH
YTQKSLSLSPG

<SEQ ID NO:60>
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TDFTLRISRVEAEDVGVYYCAHNLELPWTFGGGTKLELKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYP
REAKVQWKVDNALQSGNSQESVTEQDSKDSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC

<SEQ ID NO:61>
QVQLVQSGAEVKKPGASVKVSCKASGYTFTDFIIAWVKQAPGQGLEWIGEIYPGTGRTYYSEKFRGKATLTAD
TSTSTAYMELSSLRSEDTAVYFCARRTIYYDYDGDYWGQGTLVTVSS

<SEQ ID NO:62>
DFIIA

<SEQ ID NO:63>
EIYPGTGRTYYSEKFRG

<SEQ ID NO:64>
RTIYYDYDGDY

<SEQ ID NO:65>
DIVMTQSPLSLPVTPGEPASISCRSSKSLLHSNGITYLYWYLQKPGQSPQLLIYQMSNLASGVPDRFSGSGSG
TDFTLKISRVEAEDVGVYYCAHNLELPWTFGQGTKVEIK

<SEQ ID NO:66>
RSSKSLLHSNGITYLY

<SEQ ID NO:67>
QMSNLAS

<SEQ ID NO:68>
AHNLELPWT

<SEQ ID NO:69>
QVQLVQSGAEVKKPGASVKVSCKASGYTFTDFIIAWVKQAPGQGLEWIGEIYPGTGRTYYSEKFRGKATLTAD
TSTSTAYMELSSLRSEDTAVYFCARRTIYYDYDGDYWGQGTLVTVSSASTKGPSVFPLAPSSKSTSGGTAALG
CLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVE
PKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKT
KPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQ
VSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNH
YTQKSLSLSPG

<SEQ ID NO:70>
DIVMTQSPLSLPVTPGEPASISCRSSKSLLHSNGITYLYWYLQKPGQSPQLLIYQMSNLASGVPDRFSGSGSG
TDFTLKISRVEAEDVGVYYCAHNLELPWTFGQGTKVEIKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYP
REAKVQWKVDNALQSGNSQESVTEQDSKDSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC

<SEQ ID NO:71>
EVQLVESGGGLVQPGGSLRLSCAASGFNIKDTYIHWVRQAPGKGLEWVARIYPTNGYTRYADSVKGRFTISAD
TSKNTAYLQMNSLRAEDTAVYYCSRWGGDGFYAMDYWGQGTLVTVSS

<SEQ ID NO:72>
DTYIH

<SEQ ID NO:73>

RIYPTNGYTRYADSVKG

<SEQ ID NO:74>
WGGDGFYAMDY

<SEQ ID NO:75>
DIQMTQSPSSLSASVGDRVTITCRASQDVNTAVAWYQQKPGKAPKLLIYSASFLYSGVPSRFSGSRSGTDFTL
TISSLQPEDFATYYCQQHYTTPPTFGQGTKVEIK

<SEQ ID NO:76>
RASQDVNTAVA

<SEQ ID NO:77>
SASFLYS

<SEQ ID NO:78>
QQHYTTPPT

<SEQ ID NO:79>
EVQLVESGGGLVQPGGSLRLSCAASGFNIKDTYIHWVRQAPGKGLEWVARIYPTNGYTRYADSVKGRFTISAD
TSKNTAYLQMNSLRAEDTAVYYCSRWGGDGFYAMDYWGQGTLVTVSSASTKGPSVFPLAPSSKSTSGGTAALG
CLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVE
PKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKT
KPREEQYASTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQ
VSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNH
YTQKSLSLSPG

<SEQ ID NO:80>
DIQMTQSPSSLSASVGDRVTITCRASQDVNTAVAWYQQKPGKAPKLLIYSASFLYSGVPSRFSGSRSGTDFTL
TISSLQPEDFATYYCQQHYTTPPTFGQGTKVEIKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKV
QWKVDNALQSGNSQESVTEQDSKDSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC

<SEQ ID NO:81>
EVQLVESGGGLVQPGGSLRLSCAASGFNIKDTYIHWVRQAPGKGLEWVARIYPTNGYTRYADSVKGRFTISAD
TSKNTAYLQMNSLRAEDTAVYYCSRWGGDGFYAMDYWGQGTLVTVSS

<SEQ ID NO:82>
DTYIH

<SEQ ID NO:83>
RIYPTNGYTRYADSVKG

<SEQ ID NO:84>
WGGDGFYAMDY

<SEQ ID NO:85>
DIQMTQSPSSLSASVGDRVTITCRASQDVNTAVAWYQQKPGKAPKLLIYSASFLYSGVPSRFSGSRSGTDFTL
TISSLQPEDFATYYCQQHYTTPPTFGQGTKVEIK

<SEQ ID NO:86>
RASQDVNTAVA

<SEQ ID NO:87>
SASFLYS

<SEQ ID NO:88>
QQHYTTPPT

<SEQ ID NO:89>
EVQLVESGGGLVQPGGSLRLSCAASGFNIKDTYIHWVRQAPGKGLEWVARIYPTNGYTRYADSVKGRFTISAD
TSKNTAYLQMNSLRAEDTAVYYCSRWGGDGFYAMDYWGQGTLVTVSSASTKGPSVFPLAPSSKSTSGGTAALG
CLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVE
PKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKT
KPREEQYQSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQ
VSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNH
YTQKSLSLSPG

<SEQ ID NO:90>
DIQMTQSPSSLSASVGDRVTITCRASQDVNTAVAWYQQKPGKAPKLLIYSASFLYSGVPSRFSGSRSGTDFTL
TISSLQPEDFATYYCQQHYTTPPTFGQGTKVEIKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKV
QWKVDNALQSGNSQESVTEQDSKDSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC

<SEQ ID NO:91>
EVQLLESGGGLVQPGGSLRLSCAASGFTFSSYAMSWVRQAPGKGLEWVSSISGSGGSTLYADSVKGRFTISRD
NSKNTLYLQMNSLRAEDTAVYYCAKLTGTSFDYWGQGTLVTVSS

<SEQ ID NO:92>
SYAMS

<SEQ ID NO:93>
SISGSGGSTLYADSVKG

<SEQ ID NO:94>
LTGTSFDY

<SEQ ID NO:95>
QSVLTQPPSASGTPGQRVTISCSGSSSNIGSNPVNWYQQLPGTAPKLLIYSNNQRPSGVPDRFSGSKSGTSAS
LAITGLQSEDEADYYCQSFDSSLKKVFGGGTKLTVL

<SEQ ID NO:96>
SGSSSNIGSNPVN

<SEQ ID NO:97>
SNNQRPS

<SEQ ID NO:98>
QSFDSSLKKV

<SEQ ID NO:99>
EVQLLESGGGLVQPGGSLRLSCAASGFTFSSYAMSWVRQAPGKGLEWVSSISGSGGSTLYADSVKGRFTISRD
NSKNTLYLQMNSLRAEDTAVYYCAKLTGTSFDYWGQGTLVTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLV
KDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVEPKS
CDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPR
EEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSL
TCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQ
KSLSLSPG

<SEQ ID NO:100>
QSVLTQPPSASGTPGQRVTISCSGSSSNIGSNPVNWYQQLPGTAPKLLIYSNNQRPSGVPDRFSGSKSGTSAS
LAITGLQSEDEADYYCQSFDSSLKKVFGGGTKLTVLGQPKAAPSVTLFPPSSEELQANKATLVCLISDFYPGA
VTVAWKADSSPVKAGVETTTPSKQSNNKYAASSYLSLTPEQWKSHRSYSCQVTHEGSTVEKTVAPTECS

<SEQ ID NO:101>
EVQLLESGGGLVQPGGSLRLSCAASGFTFSSYAMSWVRQAPGKGLEWVSSISGSGGSTLYADSVKGRFTISRD
NSKNTLYLQMNSLRAEDTAVYYCAKLTGTSFDYWGQGTLVTVSS

<SEQ ID NO:102>
SYAMS

<SEQ ID NO:103>
SISGSGGSTLYADSVKG

<SEQ ID NO:104>
LTGTSFDY

<SEQ ID NO:105>
QSVLTQPPSASGTPGQRVTISCSGSSSNIGSNPVNWYQQLPGTAPKLLIYSNNQRPSGVPDRFSGSKSGTSAS
LAITGLQSEDEADYYCQSFDSSLKKVFGGGTKLTVL

<SEQ ID NO:106>
SGSSSNIGSNPVN

<SEQ ID NO:107>
SNNQRPS

<SEQ ID NO:108>
QSFDSSLKKV

<SEQ ID NO:109>
EVQLLESGGGLVQPGGSLRLSCAASGFTFSSYAMSWVRQAPGKGLEWVSSISGSGGSTLYADSVKGRFTISRD
NSKNTLYLQMNSLRAEDTAVYYCAKLTGTSFDYWGQGTLVTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLV
KDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVEPKS
CDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPR
EEQYQSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSL
TCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQ
KSLSLSPG

<SEQ ID NO:110>
QSVLTQPPSASGTPGQRVTISCSGSSSNIGSNPVNWYQQLPGTAPKLLIYSNNQRPSGVPDRFSGSKSGTSAS
LAITGLQSEDEADYYCQSFDSSLKKVFGGGTKLTVLGQPKAAPSVTLFPPSSEELQANKATLVCLISDFYPGA
VTVAWKADSSPVKAGVETTTPSKQSNNKYAASSYLSLTPEQWKSHRSYSCQVTHEGSTVEKTVAPTECS

<SEQ ID NO:111>
EVQLLESGGGLVQPGGSLRLSCAASGFTFSPYPMIWVRQAPGKGLEWVSYISPSGGSTHYADSVKGRFTISRD
NSKNTLYLQMNSLRAEDTAVYYCARGGDTYFDYFDYWGQGTLVTVSS

<SEQ ID NO:112>
PYPMI

<SEQ ID NO:113>
YISPSGGSTHYADSVKG

<SEQ ID NO:114>
GGDTYFDYFDY

<SEQ ID NO:115>
DIQMTQSPSSLSASVGDRVTITCRASQSISGYLNWYQQKPGKAPKLLIYQASSLQSGVPSRFSGSGSGTDFTL
TISSLQPEDFATYYCQQSYTSPFITFGQGTKVEIK

<SEQ ID NO:116>
RASQSISGYLN

<SEQ ID NO:117>
QASSLQS

<SEQ ID NO:118>
QQSYTSPFIT

<SEQ ID NO:119>
EVQLLESGGGLVQPGGSLRLSCAASGFTFSPYPMIWVRQAPGKGLEWVSYISPSGGSTHYADSVKGRFTISRD
NSKNTLYLQMNSLRAEDTAVYYCARGGDTYFDYFDYWGQGTLVTVSSASTKGPSVFPLAPSSKSTSGGTAALG
CLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVE
PKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKT
KPREENYQSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQ
VSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNH
YTQKSLSLSPG

<SEQ ID NO:120>
DIQMTQSPSSLSASVGDRVTITCRASQSISGYLNWYQQKPGKAPKLLIYQASSLQSGVPSRFSGSGSGTDFTL
TISSLQPEDFATYYCQQSYTSPFITFGQGTKVEIKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAK
VQWKVDNALQSGNSQESVTEQDSKDSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC

<SEQ ID NO:121>
QVQLVQSGAEVKKPGASVKVSCKASGYTFTDFIIAWVKQAPGQGLEWIGEIYPGTGRTYYSEKFRGKATLTAD
TSTSTAYMELSSLRSEDTAVYFCARRTIYYDYDGDYWGQGTLVTVSS

<SEQ ID NO:122>
DFIIA

<SEQ ID NO:123>
EIYPGTGRTYYSEKFRG

<SEQ ID NO:124>
RTIYYDYDGDY

<SEQ ID NO:125>
DIVMTQSPLSLPVTPGEPASISCRSSQSLLHSNGITYLYWYLQKPGQSPQLLIYQMSNRASGVPDRFSGSGSG
TDFTLKISRVEAEDVGVYYCAHNLELPWTFGQGTKVEIK

<SEQ ID NO:126>
RSSQSLLHSNGITYLY

<SEQ ID NO:127>
QMSNRAS

<SEQ ID NO:128>
AHNLELPWT

<SEQ ID NO:129>
QVQLVQSGAEVKKPGASVKVSCKASGYTFTDFIIAWVKQAPGQGLEWIGEIYPGTGRTYYSEKFRGKATLTAD
TSTSTAYMELSSLRSEDTAVYFCARRTIYYDYDGDYWGQGTLVTVSSASTKGPSVFPLAPSSKSTSGGTAALG
CLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVE
PKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKT
KPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQ
VSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNH
YTQKSLSLSPG

<SEQ ID NO:130>
DIVMTQSPLSLPVTPGEPASISCRSSQSLLHSNGITYLYWYLQKPGQSPQLLIYQMSNRASGVPDRFSGSGSG
TDFTLKISRVEAEDVGVYYCAHNLELPWTFGQGTKVEIKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYP
REAKVQWKVDNALQSGNSQESVTEQDSKDSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC

<SEQ ID NO:131>
QVQLVQSGAEVKKPGASVKVSCKASGYTFTDFIIAWVKQAPGQGLEWIGEIYPGTGRTYYSEKFRGKATLTAD
TSTSTAYMELSSLRSEDTAVYFCARRTIYYDYDGDYWGQGTLVTVSS

<SEQ ID NO:132>
DFIIA

<SEQ ID NO:133>
EIYPGTGRTYYSEKFRG

<SEQ ID NO:134>
RTIYYDYDGDY

<SEQ ID NO:135>
DIVMTQSPLSLPVTPGEPASISCRSSQSLLHSNGINYLYWYLQKPGQSPQLLIYQMSNRASGVPDRFSGSGSG
TDFTLKISRVEAEDVGVYYCAHNLELPWTFGQGTKVEIK

<SEQ ID NO:136>
RSSQSLLHSNGINYLY

<SEQ ID NO:137>
QMSNRAS

<SEQ ID NO:138>
AHNLELPWT

<SEQ ID NO:139>
QVQLVQSGAEVKKPGASVKVSCKASGYTFTDFIIAWVKQAPGQGLEWIGEIYPGTGRTYYSEKFRGKATLTAD
TSTSTAYMELSSLRSEDTAVYFCARRTIYYDYDGDYWGQGTLVTVSSASTKGPSVFPLAPSSKSTSGGTAALG
CLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVE
PKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKT
KPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQ
VSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNH
YTQKSLSLSPG

<SEQ ID NO:140>
DIVMTQSPLSLPVTPGEPASISCRSSQSLLHSNGINYLYWYLQKPGQSPQLLIYQMSNRASGVPDRFSGSGSG
TDFTLKISRVEAEDVGVYYCAHNLELPWTFGQGTKVEIKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYP
REAKVQWKVDNALQSGNSQESVTEQDSKDSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC

<SEQ ID NO:141>
QVQLVQSGAEVKKPGASVKVSCKASGYTFTDFIIAWVKQAPGQGLEWIGEIYPGTGRTYYSEKFRGKATLTAD
TSTSTAYMELSSLRSEDTAVYFCARRTIYYDYDGDYWGQGTLVTVSS

<SEQ ID NO:142>
DFIIA

<SEQ ID NO:143>
EIYPGTGRTYYSEKFRG

<SEQ ID NO:144>
RTIYYDYDGDY

<SEQ ID NO:145>
DIVMTQSPLSLPVTPGEPASISCRSSQSLLHSNWINYLYWYLQKPGQSPQLLIYQMSNRASGVPDRFSGSGSG
TDFTLKISRVEAEDVGVYYCAHNLELPWTFGQGTKVEIK

<SEQ ID NO:146>

RSSQSLLHSNWINYLY

<SEQ ID NO:147>
QMSNRAS

<SEQ ID NO:148>
AHNLELPWT

<SEQ ID NO:149>
QVQLVQSGAEVKKPGASVKVSCKASGYTFTDFIIAWVKQAPGQGLEWIGEIYPGTGRTYYSEKFRGKATLTAD
TSTSTAYMELSSLRSEDTAVYFCARRTIYYDYDGDYWGQGTLVTVSSASTKGPSVFPLAPSSKSTSGGTAALG
CLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVE
PKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKT
KPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQ
VSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNH
YTQKSLSLSPG

<SEQ ID NO:150>
DIVMTQSPLSLPVTPGEPASISCRSSQSLLHSNWINYLYWYLQKPGQSPQLLIYQMSNRASGVPDRFSGSGSG
TDFTLKISRVEAEDVGVYYCAHNLELPWTFGQGTKVEIKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYP
REAKVQWKVDNALQSGNSQESVTEQDSKDSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC

<SEQ ID NO:151>
QVQLVQSGAEVKKPGASVKVSCKASGYTFTDFIIAWVKQAPGQGLEWIGEIYPGTGRTYYSEKFRGKATLTAD
TSTSTAYMELSSLRSEDTAVYFCARRTIYYDYDGDYWGQGTLVTVSS

<SEQ ID NO:152>
DFIIA

<SEQ ID NO:153>
EIYPGTGRTYYSEKFRG

<SEQ ID NO:154>
RTIYYDYDGDY

<SEQ ID NO:155>
DIVMTQSPLSLPVTPGEPASISCRSSQSLLHSNWINYLYWYLQKPGQSPQLLIYQGSNRASGVPDRFSGSGSG
TDFTLKISRVEAEDVGVYYCAHNLELPWTFGQGTKVEIK

<SEQ ID NO:156>
RSSQSLLHSNWINYLY

<SEQ ID NO:157>
QGSNRAS

<SEQ ID NO:158>
AHNLELPWT

<SEQ ID NO:159>
QVQLVQSGAEVKKPGASVKVSCKASGYTFTDFIIAWVKQAPGQGLEWIGEIYPGTGRTYYSEKFRGKATLTAD
TSTSTAYMELSSLRSEDTAVYFCARRTIYYDYDGDYWGQGTLVTVSSASTKGPSVFPLAPSSKSTSGGTAALG
CLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVE
PKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKT
KPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQ
VSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNH
YTQKSLSLSPG

<SEQ ID NO:160>

DIVMTQSPLSLPVTPGEPASISCRSSQSLLHSNWINYLYWYLQKPGQSPQLLIYQGSNRASGVPDRFSGSGSG
TDFTLKISRVEAEDVGVYYCAHNLELPWTFGQGTKVEIKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYP
REAKVQWKVDNALQSGNSQESVTEQDSKDSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC

<SEQ ID NO:161>
HSDAVFTDNYTRLRKQMAVKKYLNSILN

<SEQ ID NO:162>
ATEPRKQYATPRVFWTDAPG

<SEQ ID NO:163>
LQWRRDDNVHNFGVWARYRL

<SEQ ID NO:164>
MARGSLRRLLRLLVLGLWLALLRSVAGEQAPGTAPCSRGSSWSADLDKCMDCASCRARPHSDFCLGCAAAPPA
PFRLLWPILGGALSLTFVLGLLSGFLVWRRCRRREKFTTPIEETGGEGCPAVALIQ

<SEQ ID NO:165>
MLRRRGSPGMGVHVGAALGALWFCLTGALEVQVPEDPVVALVGTDATLCCSFSPEPGFSLAQLNLIWQLTDTK
QLVHSFAEGQDQGSAYANRTALFPDLLAQGNASLRLQRVRVADEGSFTCFVSIRDFGSAAVSLQVAAPYSKPS
MTLEPNKDLRPGDTVTITCSSYQGYPEAEVFWQDGQGVPLTGNVTTSQMANEQGLFDVHSILRVVLGANGTYS
CLVRNPVLQQDAHSSVTITPQRSPTGAVEVQVPEDPVVALVGTDATLRCSFSPEPGFSLAQLNLIWQLTDTKQ
LVHSFTEGRDQGSAYANRTALFPDLLAQGNASLRLQRVRVADEGSFTCFVSIRDFGSAAVSLQVAAPYSKPSM
TLEPNKDLRPGDTVTITCSSYRGYPEAEVFWQDGQGVPLTGNVTTSQMANEQGLFDVHSVLRVVLGANGTYSC
LVRNPVLQQDAHGSVTITGQPMTFPPEALWVTVGLSVCLIALLVALAFVCWRKIKQSCEEENAGAEDQDGEGE
GSKTALQPLKHSDSKEDDGQEIA

<SEQ ID NO:166>
MELAALCRWGLLLALLPPGAASTQVCTGTDMKLRLPASPETHLDMLRHLYQGCQVVQGNLELTYLPTNASLSF
LQDIQEVQGYVLIAHNQVRQVPLQRLRIVRGTQLFEDNYALAVLDNGDPLNNTTPVTGASPGGLRELQLRSLT
EILKGGVLIQRNPQLCYQDTILWKDIFHKNNQLALTLIDTNRSRACHPCSPMCKGSRCWGESSEDCQSLTRTV
CAGGCARCKGPLPTDCCHEQCAAGCTGPKHSDCLACLHFNHSGICELHCPALVTYNTDTFESMPNPEGRYTFG
ASCVTACPYNYLSTDVGSCTLVCPLHNQEVTAEDGTQRCEKCSKPCARVCYGLGMEHLREVRAVTSANIQEFA
GCKKIFGSLAFLPESFDGDPASNTAPLQPEQLQVFETLEEITGYLYISAWPDSLPDLSVFQNLQVIRGRILHN
GAYSLTLQGLGISWLGLRSLRELGSGLALIHHNTHLCFVHTVPWDQLFRNPHQALLHTANRPEDECVGEGLAC
HQLCARGHCWGPGPTQCVNCSQFLRGQECVEECRVLQGLPREYVNARHCLPCHPECQPQNGSVTCFGPEADQC
VACAHYKDPPFCVARCPSGVKPDLSYMPIWKFPDEEGACQPCPINCTHSCVDLDDKGCPAEQRASPLTSIISA
VVGILLVVVLGVVFGILIKRRQQKIRKYTMRRLLQETELVEPLTPSGAMPNQAQMRILKETELRKVKVLGSGA
FGTVYKGIWIPDGENVKIPVAIKVLRENTSPKANKEILDEAYVMAGVGSPYVSRLLGICLTSTVQLVTQLMPY
GCLLDHVRENRGRLGSQDLLNWCMQIAKGMSYLEDVRLVHRDLAARNVLVKSPNHVKITDFGLARLLDIDETE
YHADGGKVPIKWMALESILRRRFTHQSDVWSYGVTVWELMTFGAKPYDGIPAREIPDLLEKGERLPQPPICTI
DVYMIMVKCWMIDSECRPRFRELVSEFSRMARDPQRFVVIQNEDLGPASPLDSTFYRSLLEDDDMGDLVDAEE
YLVPQQGFFCPDPAPGAGGMVHHRHRSSSTRSGGGDLTLGLEPSEEEAPRSPLAPSEGAGSDVFDGDLGMGAA
KGLQSLPTHDPSPLQRYSEDPTVPLPSETDGYVAPLTCSPQPEYVNQPDVRPQPPSPREGPLPAARPAGATLE
RPKTLSPGKNGVVKDVFAFGGAVENPEYLTPQGGAAPQPHPPPAFSPAFDNLYYWDQDPPERGAPPSTFKGTP
TAENPEYLGLDVPV

<SEQ ID NO:167>
MRPSGTAGAALLALLAALCPASRALEEKKVCQGTSNKLTQLGTFEDHFLSLQRMFNNCEVVLGNLEITYVQRN
YDLSFLKTIQEVAGYVLIALNTVERIPLENLQIIRGNMYYENSYALAVLSNYDANKTGLKELPMRNLQEILHG
AVRFSNNPALCNVESIQWRDIVSSDFLSNMSMDFQNHLGSCQKCDPSCPNGSCWGAGEENCQKLTKIICAQQC
SGRCRGKSPSDCCHNQCAAGCTGPRESDCLVCRKFRDEATCKDTCPPLMLYNPTTYQMDVNPEGKYSFGATCV
KKCPRNYVVTDHGSCVRACGADSYEMEEDGVRKCKKCEGPCRKVCNGIGIGEFKDSLSINATNIKHFKNCTSI
SGDLHILPVAFRGDSFTHTPPLDPQELDILKTVKEITGFLLIQAWPENRTDLHAFENLEIIRGRTKQHGQFSL
AVVSLNITSLGLRSLKEISDGDVIISGNKNLCYANTINWKKLFGTSGQKTKIISNRGENSCKATGQVCHALCS
PEGCWGPEPRDCVSCRNVSRGRECVDKCNLLEGEPREFVENSECIQCHPECLPQAMNITCTGRGPDNCIQCAH
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LVVALGIGLFMRRRHIVRKRTLRRLLQERELVEPLTPSGEAPNQALLRILKETEFKKIKVLGSGAFGTVYKGL

WIPEGEKVKIPVAIKELREATSPKANKEILDEAYVMASVDNPHVCRLLGICLTSTVQLITQLMPFGCLLDYVR
EHKDNIGSQYLLNWCVQIAKGMNYLEDRRLVHRDLAARNVLVKTPQHVKITDFGLAKLLGAEEKEYHAEGGKV
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FFSSPSTSRTPLLSSLSATSNNSTVACIDRNGLQSCPIKEDSFLQRYSSDPTGALTEDSIDDTFLPVPEYINQ
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NPDYQQDFFPKEAKPNGIFKGSTAENAEYLRVAPQSSEFIGA