

Figures

Figure 1

Selection Round	Strategy I: <u>btl. a2AP (NTΔ1-43)</u>	Strategy II: <u>btl. a2AP (NTΔ1-43)</u>	Strategy III: <u>lin. btl. peptide RCL</u>	Strategy IV: <u>cycl. btl. peptide RCL</u>
1	400 nM ha2AP	400 nM ha2AP	400 nM ha2AP	400 nM ha2AP
2	200 nM ha2AP 400 nM ra2AP	200 nM ha2AP 400 nM ra2AP	1.5 μM pept. lin.	1.5 μM pept. cycl.
3	400 nM ra2AP 200 nM ha2AP	200 nM ra2AP 100 nM ha2AP	0.8 μM pept. lin.	0.8 μM pept. cycl.
Depletion	Irrelevant protein (btl.; AVI-His-tag)	btl. a2AP (NTΔ1-43; CTΔ410-464)	Irrelevant protein (btl.)	Irrelevant protein (btl.)
Comment	Targeting whole protein except N-terminus	Targeting Plasmin binding site (Ct-extension)	Targeting Reactive Center Loop (RCL)	Targeting Reactive Center Loop (RCL)

Figure 2

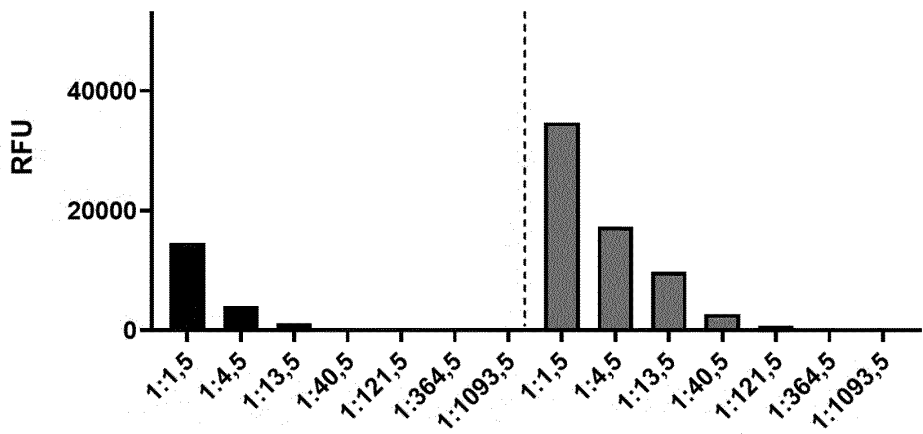


Figure 3

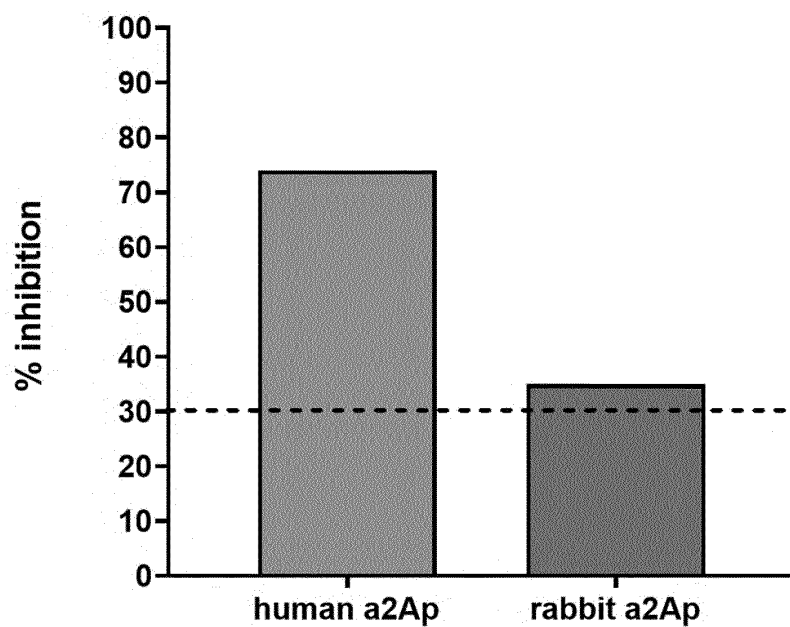


Figure 4

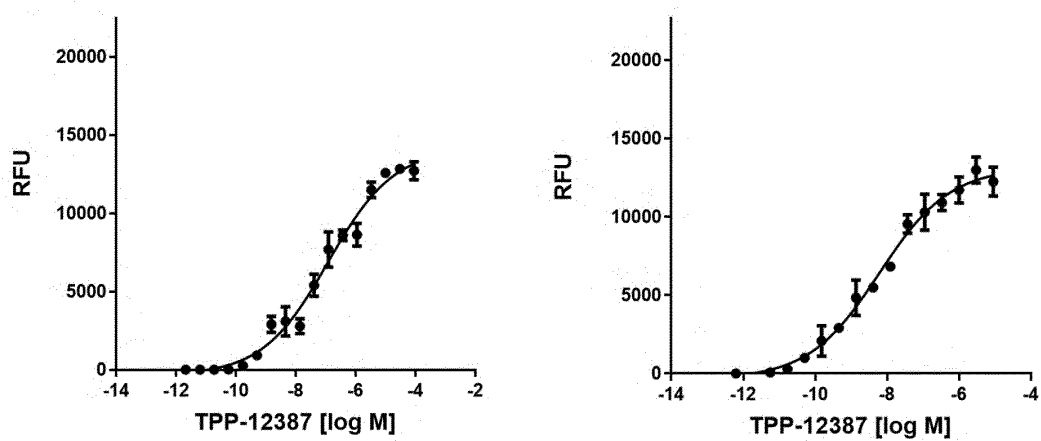


Figure 5

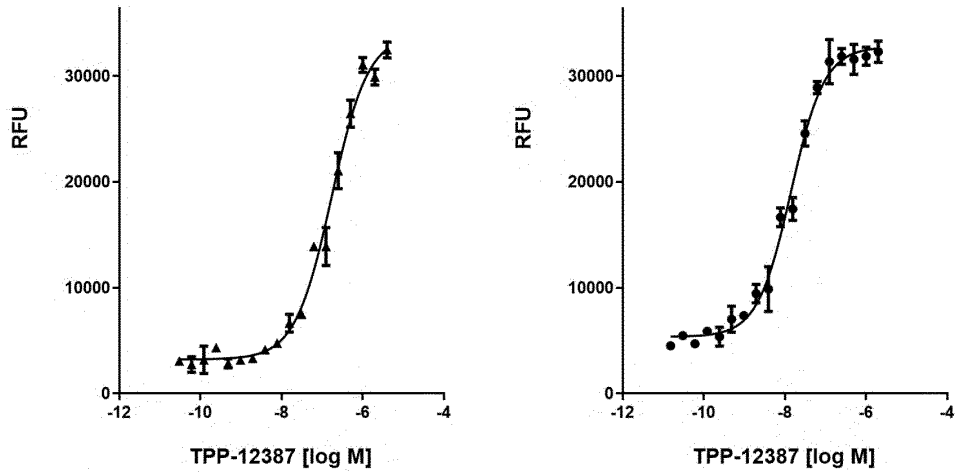
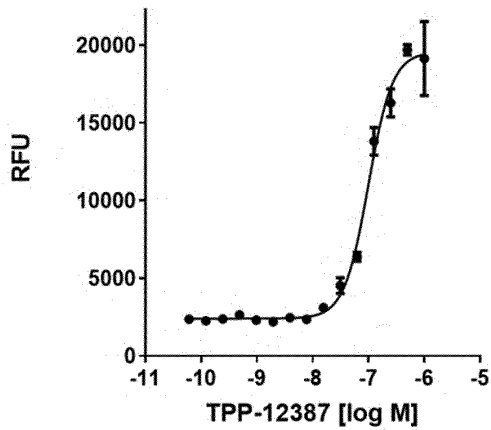
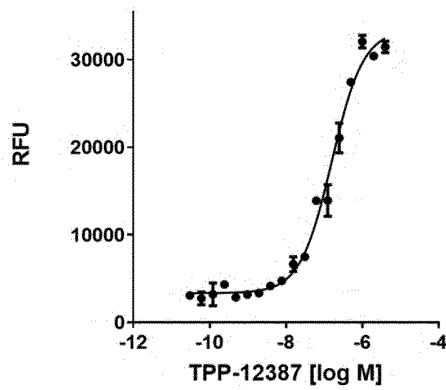


Figure 6

6.1



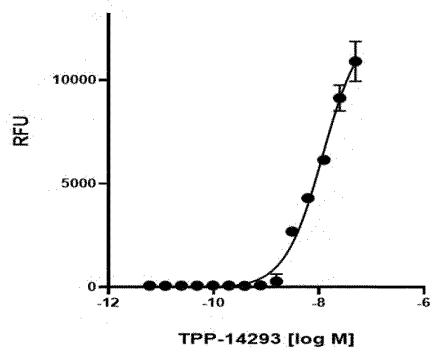
6.2



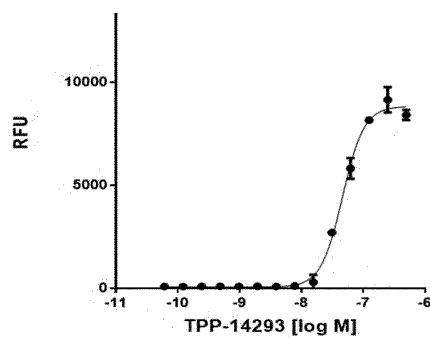
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Figure 7

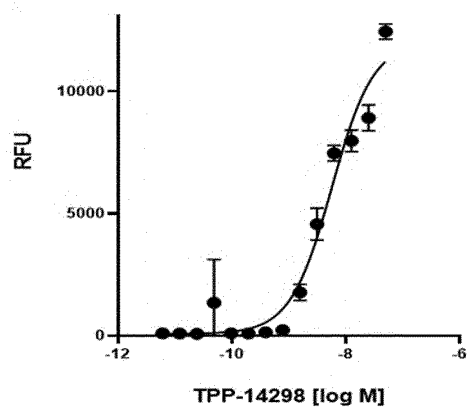
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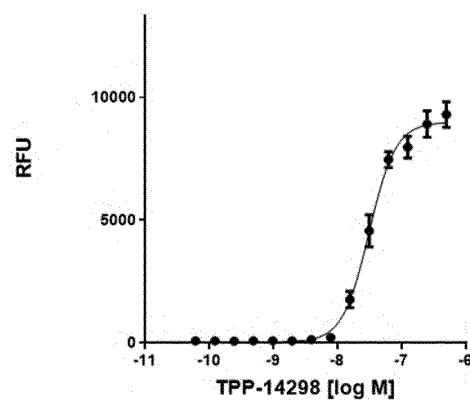
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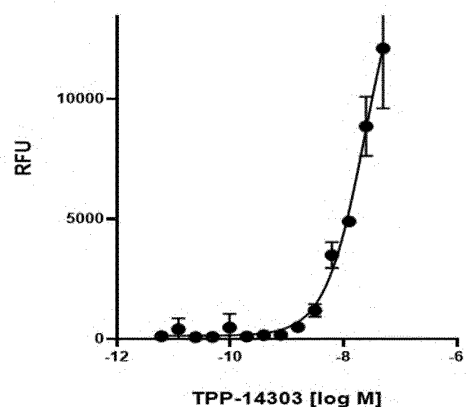
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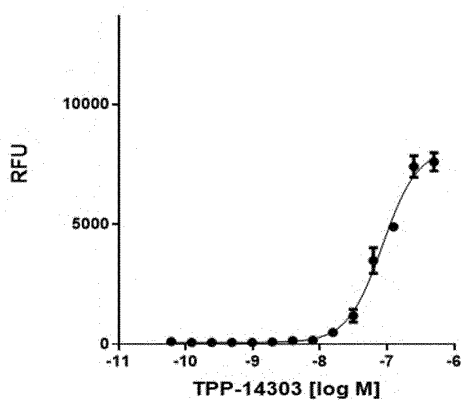
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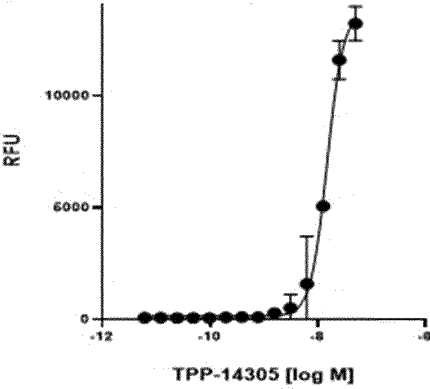
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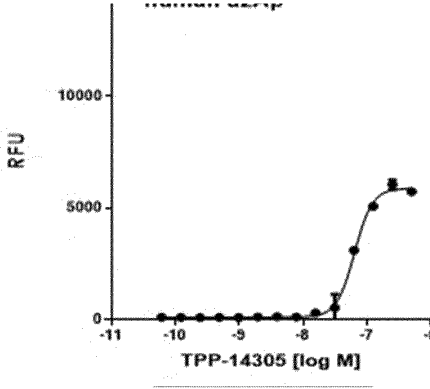
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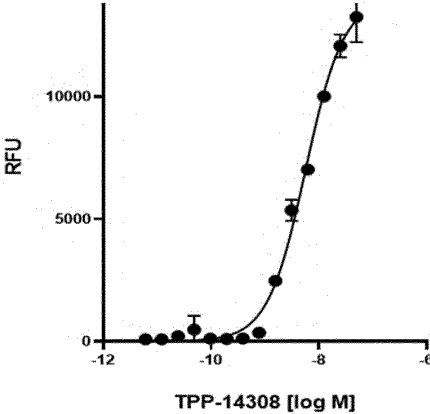
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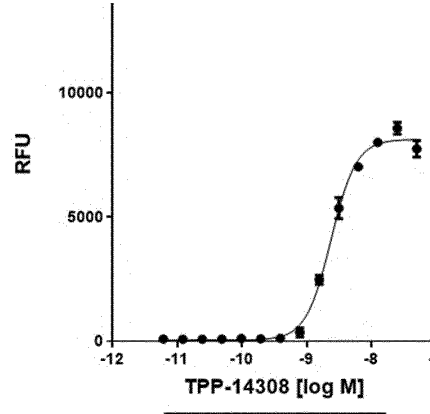
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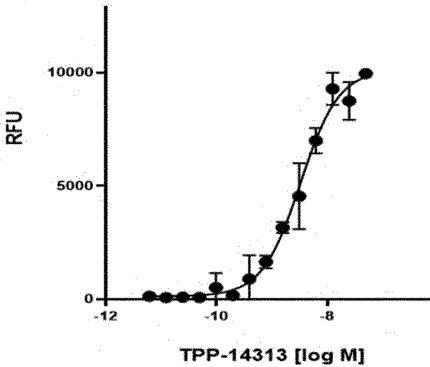
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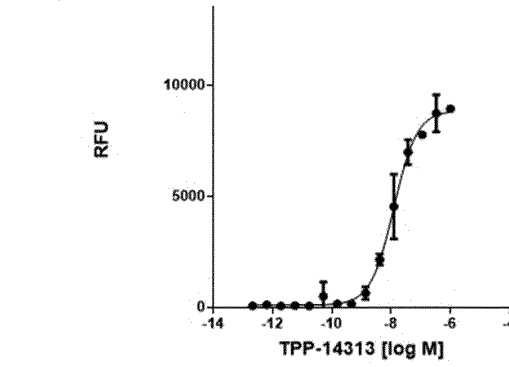
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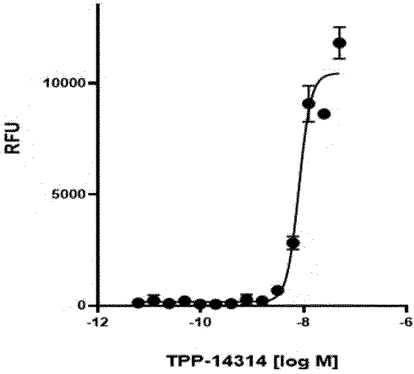
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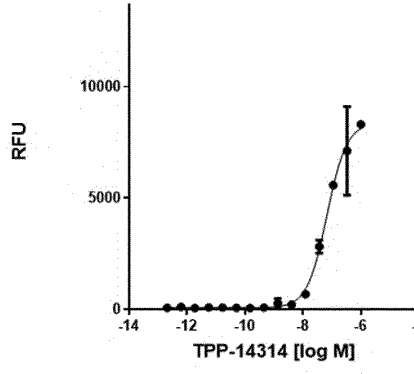
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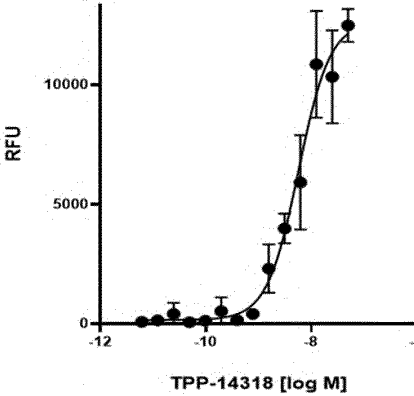
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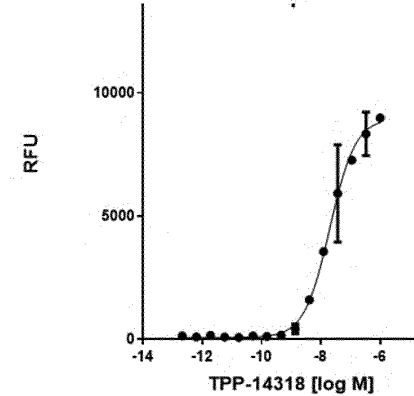
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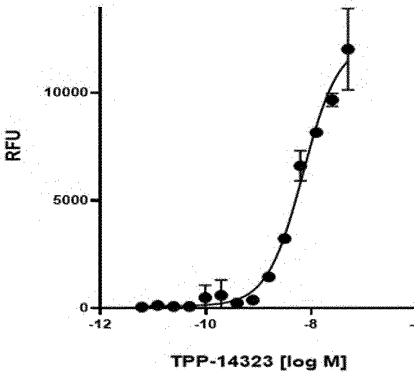
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7.16



7.17



7.18

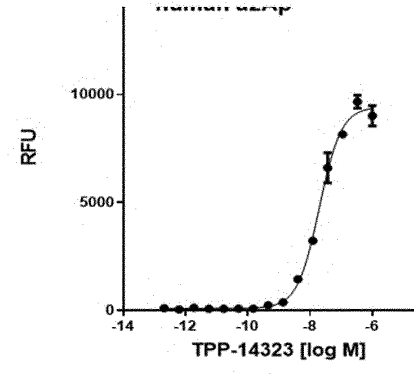
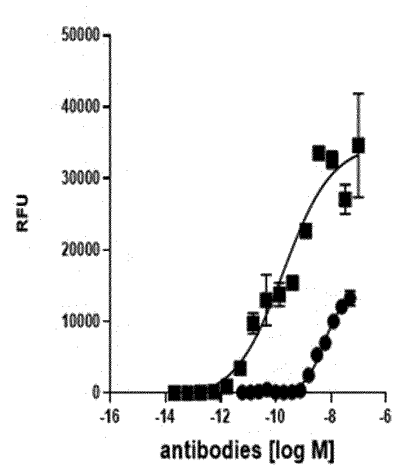
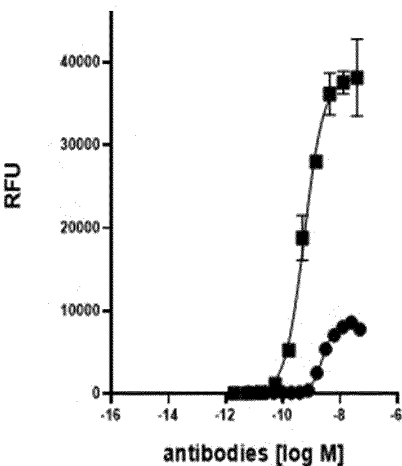


Figure 8

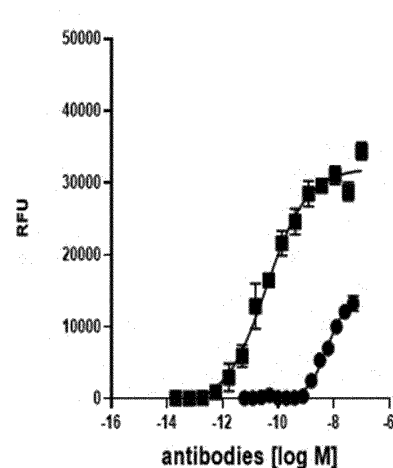
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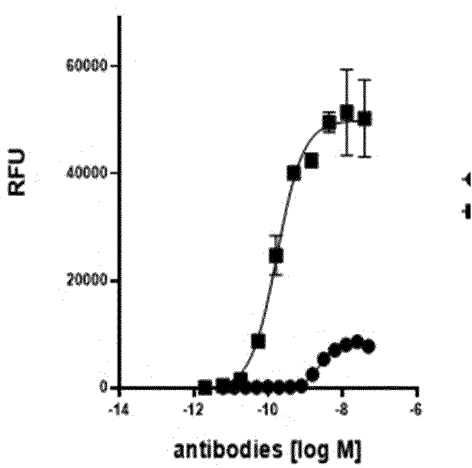
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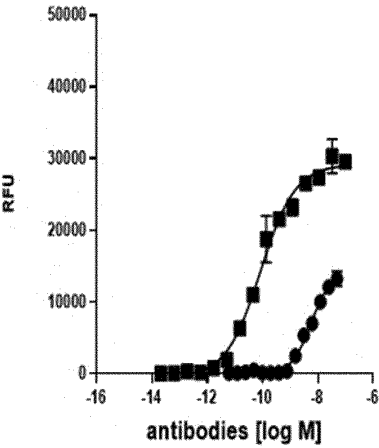
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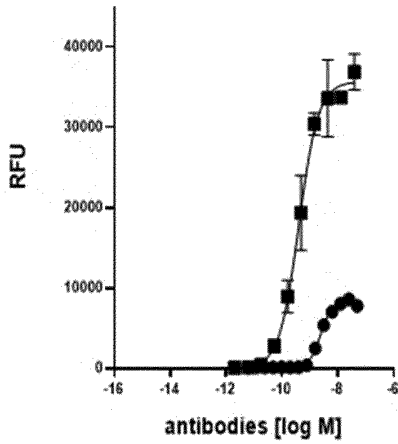
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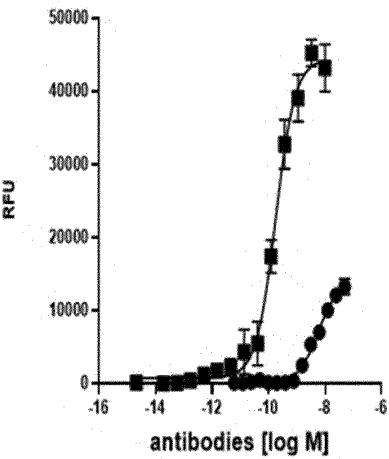
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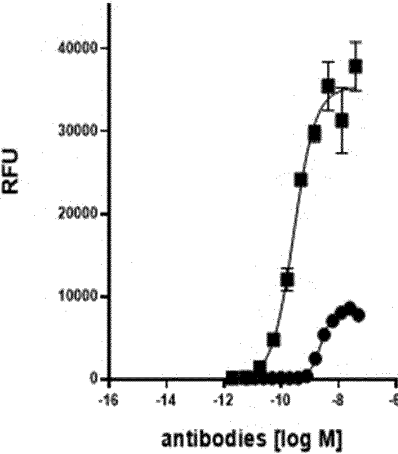
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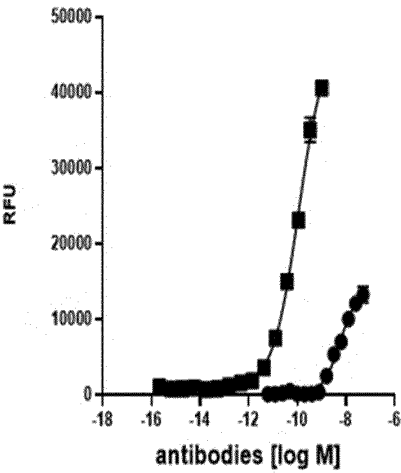
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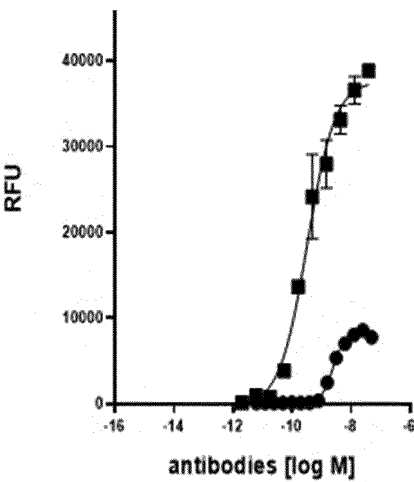
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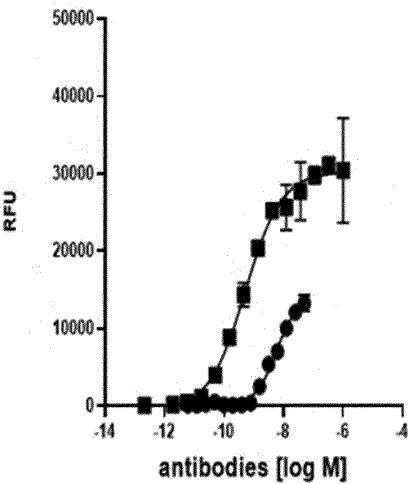
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8.10



8.11



8.12

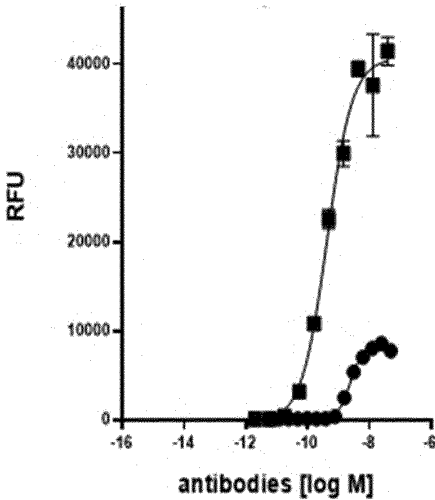
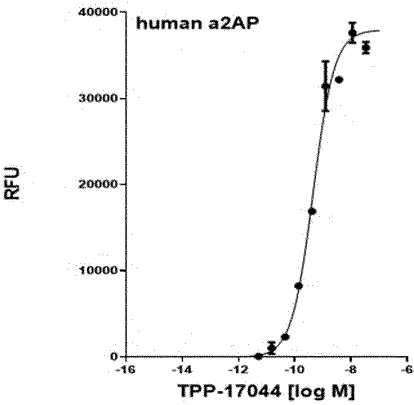
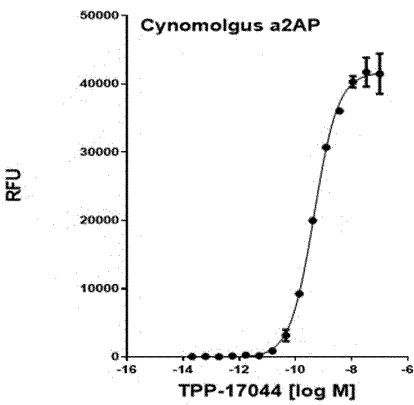


Figure 9

9.1



9.2



9.3

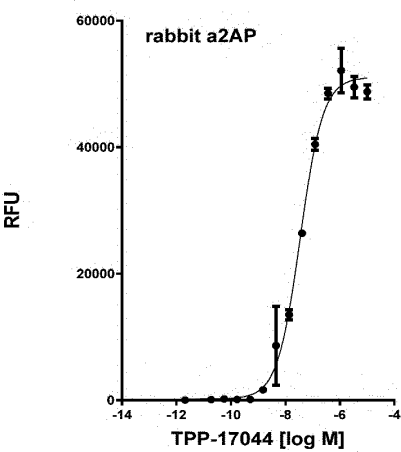
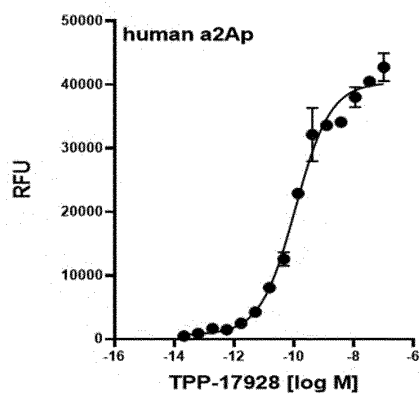
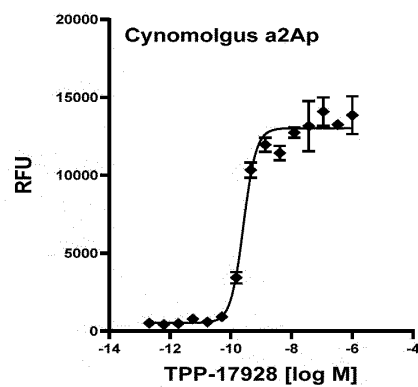


Figure 10

10.1



10.2



10.3

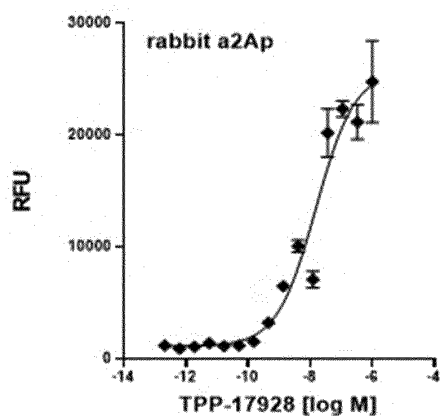


Figure 11

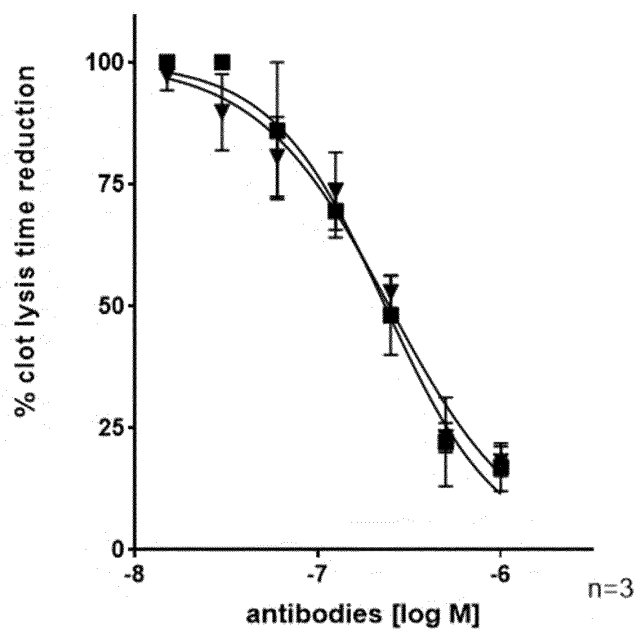
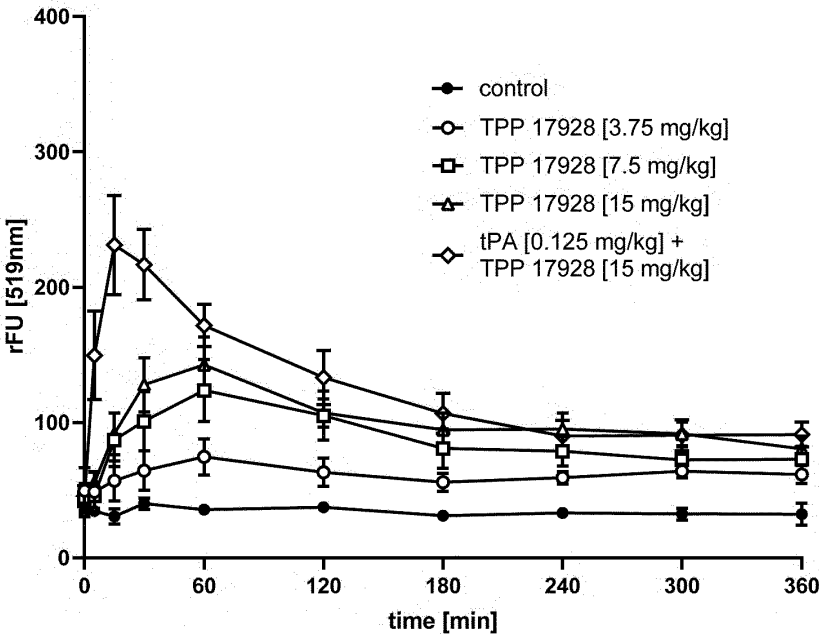
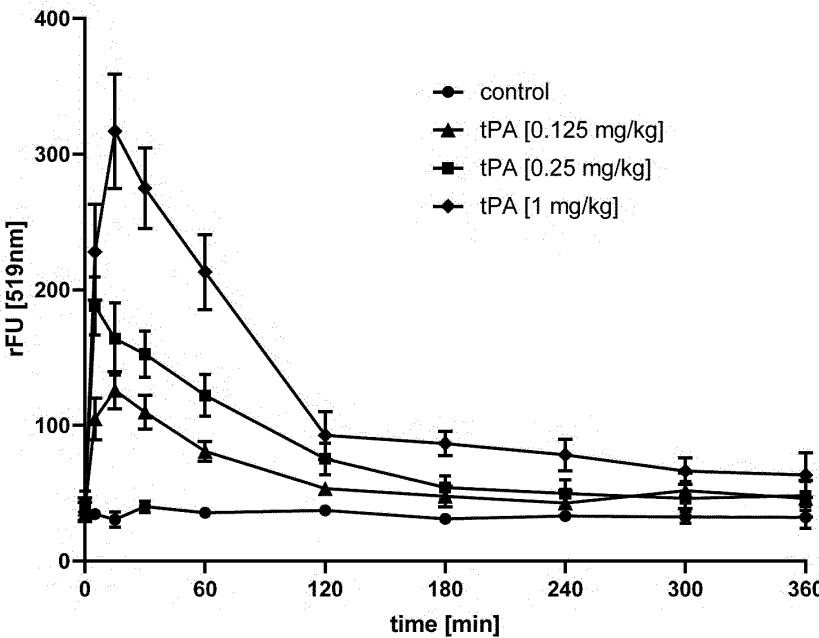


Figure 12

12.1



12.2



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Figure 13

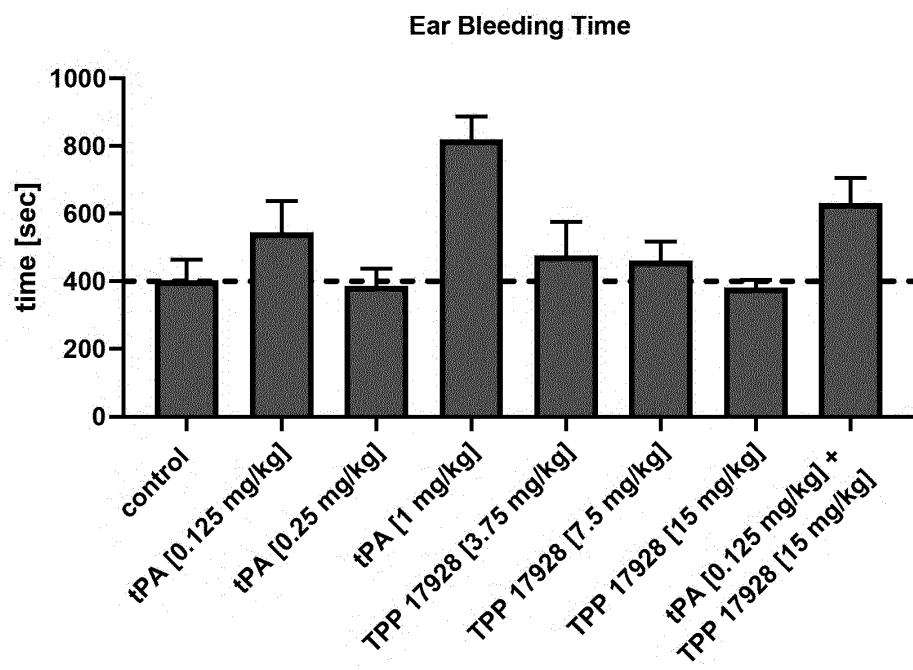
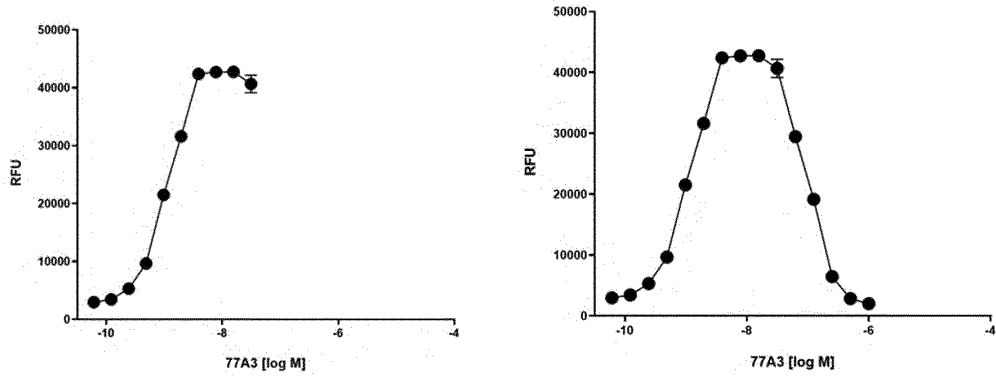
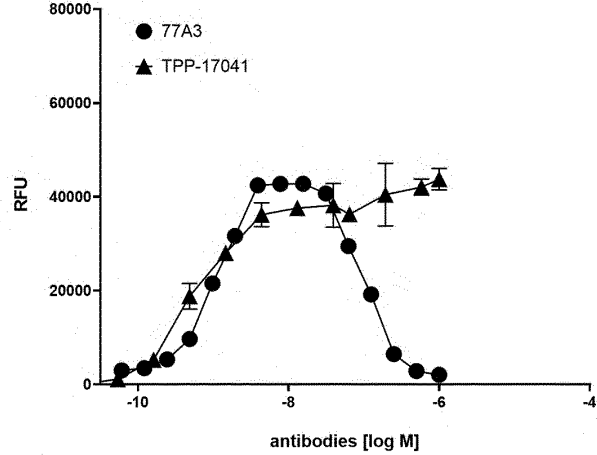


Figure 14

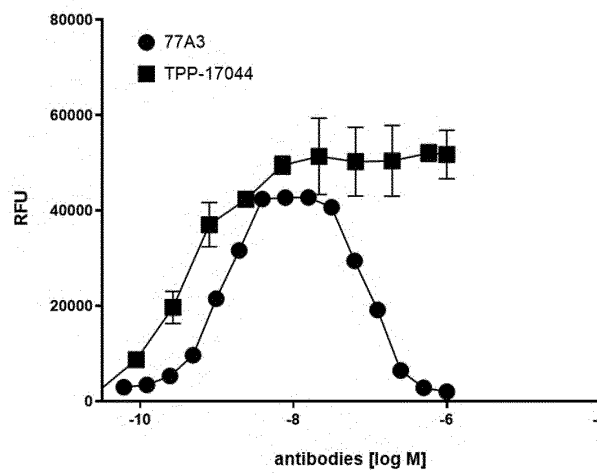
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14.2

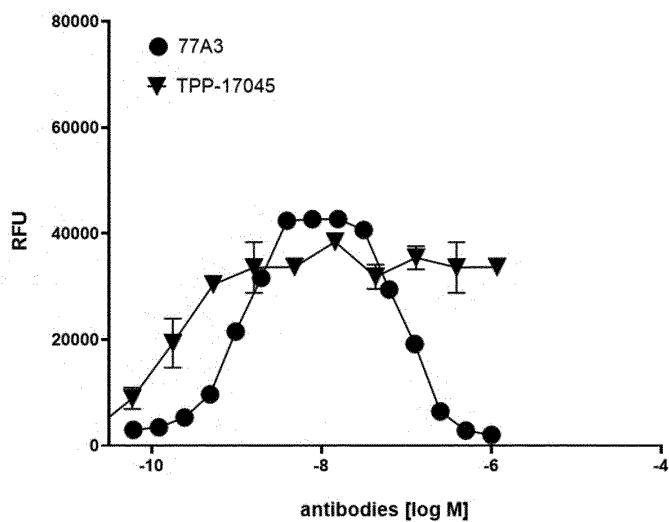


14.3

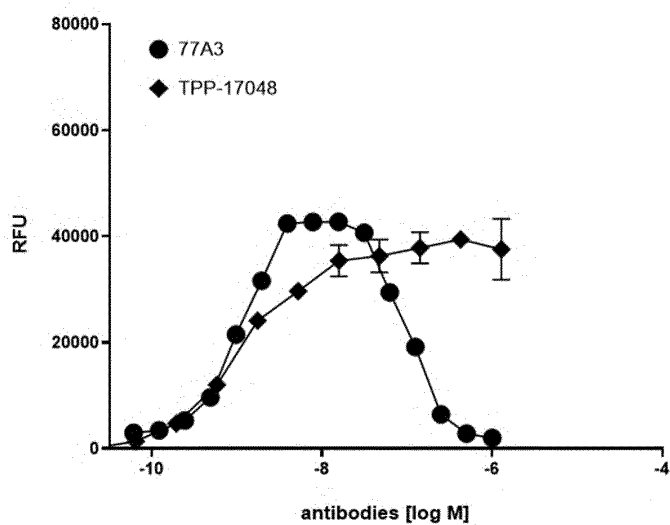


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14.4

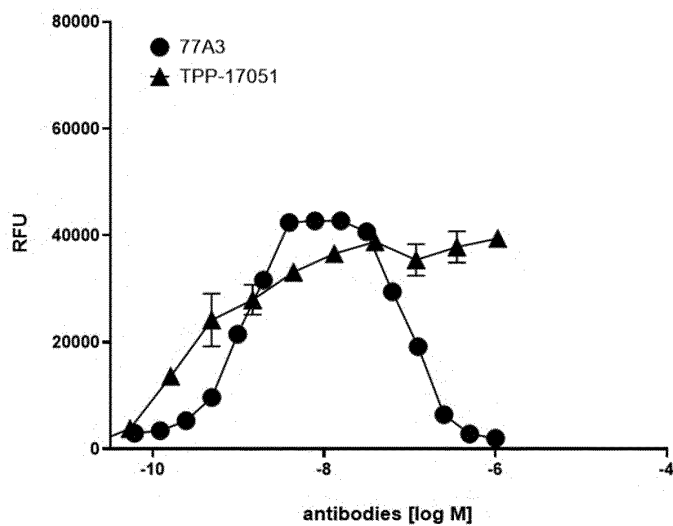


14.5



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14.6



14.7

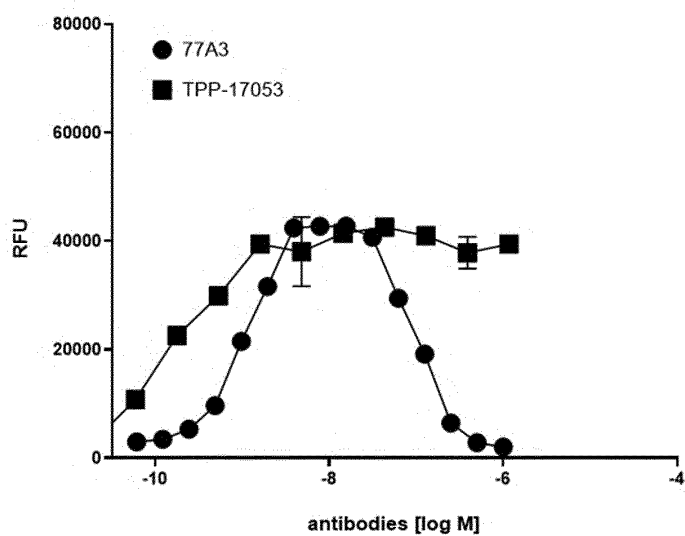


Figure 15

15.1: TPP-12387

VH:

EVQLLES GGG LVQP GGS LRLSCAASGFTFDDYAMSWVRQAPGKGLEWVSAIGTGGGTYAD
SVKGRFTISRDN SKNTLYLQMNSLRAEDTAVYYCAREYYDSSGYYHLDYWGQGTLVTVSS

H-CDR1:

DYAMS

H-CDR2:

AIGTGGGTYADSVKG

H-CDR3:

EYYDSSGYYHLDY

VL:

QSVLTQPPSASGTPGQRVTISCTGSSSNIGATYDVHWYQQLPGTAPKLLIYSNNQRPSGVPDR
FSGSKSGTSASLAISGLRSEDEADYYCAAWDDSLSGWVFGGGTKLTVL

L-CDR1

TGSSSNIGATYDVH

L-CDR2

SNNQRPS

L-CDR3

AAWDDSLSGWV

HC:

EVQLLES GGG LVQP GGS LRLSCAASGFTFDDYAMSWVRQAPGKGLEWVSAIGTGGGTYAD
SVKGRFTISRDN SKNTLYLQMNSLRAEDTAVYYCAREYYDSSGYYHLDYWGQGTLVTVSSAST
KGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLS
SVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKP
KDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLH
QDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYP
SDIAVEWESNGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNV FSCSVMHEALHNHY
TQKSLSLSPG

LC:

QSVLTQPPSASGTPGQRVTISCTGSSSNIGATYDVHWYQQLPGTAPKLLIYSNNQRPSGVPDR
FSGSKSGTSASLAISGLRSEDEADYYCAAWDDSLSGWVFGGGTKLTVLGQPKAAPSVTLFPPS
SEELQANKATLVCLISDFYPGAVTVAWKADSSPVKAGVETTTTPSKQSNNKYAASSYLSLTPEQ
WKSHRSYSCQVTHEGSTVEKTVAPTECS

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15.2: TPP-14293

VH:

EVQLLES G G G L V Q P G G S L R L S C A A S G F T F D D Y A M S W V R Q A P G K G L E W V S A I G T G G G T Y Y A D
S V K G R F T I S R D N S K N T L Y L Q M N S L R A E D T A V Y Y C D R E Y Y D S S G Y Y H L D Y W G Q G T L V T V S S

H-CDR1:

DYAMS

H-CDR2:

A I G T G G G T Y Y A D S V K G

H-CDR3:

E Y Y D S S G Y Y H L D Y

VL:

Q S V L T Q P P S A S G T P G Q R V T I S C T G S S S N I G A T Y D V H W Y Q Q L P G T A P K L L I Y S N N Q R P S G V P D R
F S G S K S G T S A S L A I S G L R S E D E A D Y Y C A A W D W S L S G W V F G G G T K L T V L

L-CDR1

T G S S S N I G A T Y D V H

L-CDR2

S N N Q R P S

L-CDR3

A A W D W S L S G W V

HC:

E V Q L L E S G G G L V Q P G G S L R L S C A A S G F T F D D Y A M S W V R Q A P G K G L E W V S A I G T G G G T Y Y A D
S V K G R F T I S R D N S K N T L Y L Q M N S L R A E D T A V Y Y C D R E Y Y D S S G Y Y H L D Y W G Q G T L V T V S S A S
T K G P S V F P L A P S S K S T S G G T A A L G C L V K D Y F P E P V T V S W N S G A L T S G V H T F P A V L Q S S G L Y S L
S S V V T V P S S S L G T Q T Y I C N V N H K P S N T K V D K K V E P K S C D K T H T C P P C P A P E L L G G P S V F L F P P K
P K D T L M I S R T P E V T C V V V D V S H E D P E V K F N W Y V D G V E V H N A K T K P R E E Q Y N S T Y R V V S V L T V L
H Q D W L N G K E Y K C K V S N K A L P A P I E K T I S K A K G Q P R E P Q V Y T L P P S R D E L T K N Q V S L T C L V K G F
Y P S D I A V E W E S N G Q P E N N Y K T T P P V L D S D G S F F L Y S K L T V D K S R W Q Q G N V F S C S V M H E A L H N
H Y T Q K S L S L S P G

LC:

Q S V L T Q P P S A S G T P G Q R V T I S C T G S S S N I G A T Y D V H W Y Q Q L P G T A P K L L I Y S N N Q R P S G V P D R
F S G S K S G T S A S L A I S G L R S E D E A D Y Y C A A W D W S L S G W V F G G G T K L T V L G Q P K A A P S V T L F P P
S S E E L Q A N K A T L V C L I S D F Y P G A V T V A W K A D S S P V K A G V E T T T P S K Q S N N K Y A A S S Y L S L T P E Q
W K S H R S Y S C Q V T H E G S T V E K T V A P T E C S

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15.3: TPP-14298

VH:

EVQLLES G G G L V Q P G G S L R L S C A A S G F T F D D Y A M S W V R Q A P G K G L E W V S A I G T G G G T Y Y A D
S V K G R F T I S R D N S K N T L Y L Q M N S L R A E D T A V Y Y C A S E Y Y D S S G Y Y H L D Y W G Q G T L V T V S S

H-CDR1:

DYAMS

H-CDR2:

A I G T G G G T Y Y A D S V K G

H-CDR3:

E Y Y D S S G Y Y H L D Y

VL:

Q S V L T Q P P S A S G T P G Q R V T I S C T G S S S N I G A T Y D V H W Y Q Q L P G T A P K L L I Y S N N Q R P S G V P D R
F S G S K S G T S A S L A I S G L R S E D E A D Y Y C A A W D W S L S G W V F G G G T K L T V L

L-CDR1:

T G S S S N I G A T Y D V H

L-CDR2:

S N N Q R P S

L-CDR3

A A W D W S L S G W V

HC:

E V Q L L E S G G G L V Q P G G S L R L S C A A S G F T F D D Y A M S W V R Q A P G K G L E W V S A I G T G G G T Y Y A D
S V K G R F T I S R D N S K N T L Y L Q M N S L R A E D T A V Y Y C A S E Y Y D S S G Y Y H L D Y W G Q G T L V T V S S A S T
K G P S V F L A P S S K S T S G G T A A L G C L V K D Y F P E P V T V S W N S G A L T S G V H T F P A V L Q S S G L Y S L S
S V V T V P S S S L G T Q T Y I C N V N H K P S N T K V D K K V E P K S C D K T H T C P P C P A P E L L G G P S V F L F P P K P
K D T L M I S R T P E V T C V V V D V S H E D P E V K F N W Y V D G V E V H N A K T K P R E E Q Y N S T Y R V V S V L T V L H
Q D W L N G K E Y K C K V S N K A L P A P I E K T I S K A K G Q P R E P Q V Y T L P P S R D E L T K N Q V S L T C L V K G F Y P
S D I A V E W E S N G Q P E N N Y K T T P P V L D S D G S F F L Y S K L T V D K S R W Q Q G N V F S C S V M H E A L H N H Y
T Q K S L S L S P G

LC:

Q S V L T Q P P S A S G T P G Q R V T I S C T G S S S N I G A T Y D V H W Y Q Q L P G T A P K L L I Y S N N Q R P S G V P D R
F S G S K S G T S A S L A I S G L R S E D E A D Y Y C A A W D W S L S G W V F G G G T K L T V L G Q P K A A P S V T L F P P
S S E E L Q A N K A T L V C L I S D F Y P G A V T V A W K A D S S P V K A G V E T T T P S K Q S N N K Y A A S S Y L S L T P E Q
W K S H R S Y S C Q V T H E G S T V E K T V A P T E C S

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15.4: TPP-14303

VH:

EVQLLES G G G L V Q P G G S L R L S C A A S G F T F D D Y A M S W V R Q A P G K G L E W V S A I G T G G G T Y Y A D
S V K G R F T I S R D N S K N T L Y L Q M N S L R A E D T A V Y Y C A R E D Y D S S G Y Y H L D Y W G Q G T L V T V S S

H-CDR1:

DYAMS

H-CDR2:

AIGTGGGTYYADSVKG

H-CDR3:

EDYDSSGYHLDY

VL:

QSVLTQPPSASGTPGQRTISCTGSSSNIGATYDVHWYQQLPGTAPKLLIYSNNQRPSGVPDR
FSGSKSGTSASLAISGLRSEDEADYYCAAWDWSLSGWVFGGGTKLTVL

L-CDR1:

TGSSSNIGATYDVH

L-CDR2:

SNNQRPS

L-CDR3:

AAWDWSLSGWV

HC:

EVQLLES G G G L V Q P G G S L R L S C A A S G F T F D D Y A M S W V R Q A P G K G L E W V S A I G T G G G T Y Y A D
S V K G R F T I S R D N S K N T L Y L Q M N S L R A E D T A V Y Y C A R E D Y D S S G Y Y H L D Y W G Q G T L V T V S S A S
T K G P S V F P L A P S S K S T S G G T A A L G C L V K D Y F P E P V T V S W N S G A L T S G V H T F P A V L Q S S G L Y S L
S S V V T V P S S S L G T Q T Y I C N V N H K P S N T K V D K K V E P K S C D K T H T C P P C P A P E L L G G P S V F L F P P K
P K D T L M I S R T P E V T C V V V D V S H E D P E V K F N W Y V D G V E V H N A K T K P R E E Q Y N S T Y R V V S V L T V L
H Q D W L N G K E Y K C K V S N K A L P A P I E K T I S K A K G Q P R E P Q V Y T L P P S R D E L T K N Q V S L T C L V K G F
Y P S D I A V E W E S N G Q P E N N Y K T T P P V L D S D G S F F L Y S K L T V D K S R W Q Q G N V F S C S V M H E A L H N
H Y T Q K S L S L S P G

LC:

QSVLTQPPSASGTPGQRTISCTGSSSNIGATYDVHWYQQLPGTAPKLLIYSNNQRPSGVPDR
FSGSKSGTSASLAISGLRSEDEADYYCAAWDWSLSGWVFGGGTKLTVLGQPKAAPSVTLPFP
SSEELQANKATLVCLISDFYPGAVTVAWKADSSPVKAGVETTTTPSKQSNNKYAASSYLSLTPEQ
WKSHRSYSCQVTHEGSTVEKTVAPTECS

- 22/35 -

15.5: TPP-14305

VH:

EVQLLES G G G L V Q P G G S L R L S C A A S G F T F D D Y A M S W V R Q A P G K G L E W V S A I G T G G G T Y Y A D
S V K G R F T I S R D N S K N T L Y L Q M N S L R A E D T A V Y Y C A R E G Y D S S G Y Y H L D Y W G Q G T L V T V S S

H-CDR1:

DYAMS

H-CDR2:

A I G T G G G T Y Y A D S V K G

H-CDR3:

E G Y D S S G Y Y H L D Y

VL:

Q S V L T Q P P S A S G T P G Q R V T I S C T G S S S N I G A T Y D V H W Y Q Q L P G T A P K L L I Y S N N Q R P S G V P D R
F S G S K S G T S A S L A I S G L R S E D E A D Y Y C W A W D D S L S G W V F G G G T K L T V L

L-CDR1:

T G S S S N I G A T Y D V H

L-CDR2:

S N N Q R P S

L-CDR3:

W A W D D S L S G W V

HC:

E V Q L L E S G G G L V Q P G G S L R L S C A A S G F T F D D Y A M S W V R Q A P G K G L E W V S A I G T G G G T Y Y A D
S V K G R F T I S R D N S K N T L Y L Q M N S L R A E D T A V Y Y C A R E G Y D S S G Y Y H L D Y W G Q G T L V T V S S A S
T K G P S V F P L A P S S K S T S G G T A A L G C L V K D Y F P E P V T V S W N S G A L T S G V H T F P A V L Q S S G L Y S L
S S V V T V P S S S L G T Q T Y I C N V N H K P S N T K V D K K V E P K S C D K T H T C P P C P A P E L L G G P S V F L F P P K
P K D T L M I S R T P E V T C V V D V S H E D P E V K F N W Y V D G V E V H N A K T K P R E E Q Y N S T Y R V V S V L T V L
H Q D W L N G K E Y K C K V S N K A L P A P I E K T I S K A K G Q P R E P Q V Y T L P P S R D E L T K N Q V S L T C L V K G F
Y P S D I A V E W E S N G Q P E N N Y K T T P P V L D S D G S F F L Y S K L T V D K S R W Q Q G N V F S C S V M H E A L H N
H Y T Q K S L S L S P G

LC:

Q S V L T Q P P S A S G T P G Q R V T I S C T G S S S N I G A T Y D V H W Y Q Q L P G T A P K L L I Y S N N Q R P S G V P D R
F S G S K S G T S A S L A I S G L R S E D E A D Y Y C W A W D D S L S G W V F G G G T K L T V L G Q P K A A P S V T L F P P
S S E E L Q A N K A T L V C L I S D F Y P G A V T V A W K A D S S P V K A G V E T T T P S K Q S N N K Y A A S S Y L S L T P E Q
W K S H R S Y S C Q V T H E G S T V E K T V A P T E C S

- 23/35 -

15.6: TPP-14308

VH:

EVQLLES G GGLVQP G GSLRLSCAASGFTFDDYAMSWVRQAPGKGLEWVSAIGTGGGTYYAD
SVKGRFTISRDN SKNTLYLQMNSLRAEDTAVYYCAREGYDSSGYYHLDYWGQGT LVT VSS

H-CDR1:

DYAMS

H-CDR2:

AIGTGGGTYYADSVKG

H-CDR3:

EGYDSSGYYHLDY

VL:

QSVLTQPPSASGTPGQRVTISCTGSSSNIGATYDVHWYQQLPGTAPKLLIYSNNQRPSGVPDR
FSGSKSGTSASLAISGLRSEDEADYYCAAWDWSLSGWVFGGGTKLTVL

L-CDR1:

TGSSSNIGATYDVH

L-CDR2:

SNNQRPS

L-CDR3:

AAWDWSLSGWV

HC:

EVQLLES G GGLVQP G GSLRLSCAASGFTFDDYAMSWVRQAPGKGLEWVSAIGTGGGTYYAD
SVKGRFTISRDN SKNTLYLQMNSLRAEDTAVYYCAREGYDSSGYYHLDYWGQGT LVT VSSAS
TKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVT VSWNSGALTSGVHTFPAVLQSSGLYSL
SSVTV P SSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELLGGPSVFLFPPK
PKDTLMISRTPEVTCVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVL
HQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGF
YPSDIAVEWESNGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNV FSCSV MHEALHN
HYTQKSLSLSPG

LC:

QSVLTQPPSASGTPGQRVTISCTGSSSNIGATYDVHWYQQLPGTAPKLLIYSNNQRPSGVPDR
FSGSKSGTSASLAISGLRSEDEADYYCAAWDWSLSGWVFGGGTKLTVLGQPKAAPSVTLFPP
SSEELQANKATLVCLISDFYPGAVTVAWKADSSPVKAGVETTTPSKQSNNKYAASSYLSLTPEQ
WKSHRSYSCQVTHEGSTVEKTVAPTECS

- 24/35 -

15.7: TPP-14313

VH:

EVQLLES GGG L V Q P G G S L R L S C A A S G F T F D D Y A M S W V R Q A P G K G L E W V S A I G T G G G T Y Y A D
S V K G R F T I S R D N S K N T L Y L Q M N S L R A E D T A V Y Y C A R E Y Y D S S G Y Y H L V Y W G Q G T L V T V S S

H-CDR1:

DYAMS

H-CDR2:

AIGTGGGTYYADSVKG

H-CDR3:

EYYDSSGYHLY

VL:

QSVLTQPPSASGTPGQRVTISCTGSSSNIGATYDVHWYQQLPGTAPKLLIYSNNQRPSGVPDR
FSGSKSGTSASLAISGLRSEDEADYYCAAWDWSLSGWVFGGGTKLTVL

L-CDR1:

TGSSSNIGATYDVH

L-CDR2:

SNNQRPS

L-CDR3:

AAWDWSLSGWV

HC:

EVQLLES GGG L V Q P G G S L R L S C A A S G F T F D D Y A M S W V R Q A P G K G L E W V S A I G T G G G T Y Y A D
S V K G R F T I S R D N S K N T L Y L Q M N S L R A E D T A V Y Y C A R E Y Y D S S G Y Y H L V Y W G Q G T L V T V S S A S T
K G P S V F P L A P S S K S T S G G T A A L G C L V K D Y F P E P V T V S W N S G A L T S G V H T F P A V L Q S S G L Y S L S
S V V T V P S S S L G T Q T Y I C N V N H K P S N T K V D K K V E P K S C D K T H T C P P C P A P E L L G G P S V F L F P P K P
K D T L M I S R T P E V T C V V V D V S H E D P E V K F N W Y V D G V E V H N A K T K P R E E Q Y N S T Y R V V S V L T V L H
Q D W L N G K E Y K C K V S N K A L P A P I E K T I S K A K G Q P R E P Q V Y T L P P S R D E L T K N Q V S L T C L V K G F Y P
S D I A V E W E S N G Q P E N N Y K T T P P V L D S D G S F F L Y S K L T V D K S R W Q Q G N V F S C S V M H E A L H N H Y
T Q K S L S L S P G

LC:

QSVLTQPPSASGTPGQRVTISCTGSSSNIGATYDVHWYQQLPGTAPKLLIYSNNQRPSGVPDR
FSGSKSGTSASLAISGLRSEDEADYYCAAWDWSLSGWVFGGGTKLTVLGQPKAAPS VTLFPP
SSEELQANKATLVCLISDFYPGAVTVAWKADSSPVKAGVETTTPSKQSNNKYAASSYLSLTPEQ
WKSHRSYSCQVTHEGSTVEKTVAPTECS

- 25/35 -

15.8: TPP-14314

VH:

EVQLLESGGGLVQPGGSLRLSCAASGFTFDDYAMSWVRQAPGKGLEWWSAIGTGGGTYYAD
SVKGRFTISRDN SKNTLYLQMNSLRAEDTAVYYCAREYYDSSGYYHLVYWGQGT LVTVSS

H-CDR1:

DYAMS

H-CDR2:

AIGTGGGTYYADSVKG

H-CDR3:

EYYDSSGYYHLVY

VL:

QSVLTQPPSASGTPGQRTISCTGSSSNIGATYDVHWYQQLPGTAPKLLIYSNNQRPSGVPDR
FSGSKSGTSASLAISGLRSEDEADYYCAAWDVSLSGWVFGGGTKLTVL

L-CDR1:

TGSSSNIGATYDVH

L-CDR2:

SNNQRPS

L-CDR3:

AAWDVSLSGWV

HC:

EVQLLESGGGLVQPGGSLRLSCAASGFTFDDYAMSWVRQAPGKGLEWWSAIGTGGGTYYAD
SVKGRFTISRDN SKNTLYLQMNSLRAEDTAVYYCAREYYDSSGYYHLVYWGQGT LVTVSSAST
KGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLS
SVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKP
KDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLH
QDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYP
SDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFCSCVMHEALHNHY
TQKSLSLSPG

LC:

QSVLTQPPSASGTPGQRTISCTGSSSNIGATYDVHWYQQLPGTAPKLLIYSNNQRPSGVPDR
FSGSKSGTSASLAISGLRSEDEADYYCAAWDVSLSGWVFGGGTKLTVLGQPKAAPSVTLFPPS
SEELQANKATLVCLISDFYPGAVTVAWKADSSPVKAGVETTTTPSKQSNNKYAASSYLSLTPEQ
WKSHRSYSCQVTHEGSTVEKTVAPTECS

- 26/35 -

15.9: TPP-14318

VH:

EVQLLESGGGLVQPGGSLRLSCAASGFTFDDYAMSWVRQAPGKGLEWWSAIGTGGGTYYAD
SVKGRFTISRDN SKNTLYLQMNSLRAEDTAVYYCAREYYDSSGYYHLEYWGQGT LVT VSS

H-CDR1:

DYAMS

H-CDR2:

AIGTGGGTYYADSVKG

H-CDR3:

EYYDSSGYYHLEY

VL:

QSVLTQPPSASGTPGQRTISCTGSSSNIGATYDVHWYQQLPGTAPKLLIYSNNQRPSGVPDR
FSGSKSGTSASLAISGLRSEDEADYYCAAWDWSLSGWVFGGGTKLTVL

L-CDR1

TGSSSNIGATYDVH

L-CDR2

SNNQRPS

L-CDR3

AAWDWSLSGWV

HC:

EVQLLESGGGLVQPGGSLRLSCAASGFTFDDYAMSWVRQAPGKGLEWWSAIGTGGGTYYAD
SVKGRFTISRDN SKNTLYLQMNSLRAEDTAVYYCAREYYDSSGYYHLEYWGQGT LVT VSSAST
KGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSL
SVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKP
KDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLH
QDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYP
SDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHY
TQKSLSLSPG

LC:

QSVLTQPPSASGTPGQRTISCTGSSSNIGATYDVHWYQQLPGTAPKLLIYSNNQRPSGVPDR
FSGSKSGTSASLAISGLRSEDEADYYCAAWDWSLSGWVFGGGTKLTVLGQPKAAPSVTLFPP
SSEELQANKATLVCLISDFYPGAVTVAWKADSSPVKAGVETTTTPSKQSNNKYAASSYLSLTPEQ
WKSHRSYSCQVTHEGSTVEKTVAPTECS

- 27/35 -

15.10: TPP-14323

VH:

EVQLLESGGGLVQPGGSLRLSCAASGFTFDDYAMSWVRQAPGKGLEWVSAIGTGGGTYYAD
SVKGRFTISRDN SKNTLYLQMNSLRAEDTAVYYCAREYYDSSGYYHLTYWGQGT LVTVSS

H-CDR1:

DYAMS

H-CDR2:

AIGTGGGTYYADSVKG

H-CDR3:

EYYDSSGYYHLTY

VL:

QSVLTQPPSASGTPGQRTISCTGSSSNIGATYDVHWYQQLPGTAPKLLIYSNNQRPSGVPDR
FSGSKSGTSASLAISGLRSEDEADYYCAAWDWSLSGWVFGGGTKLTVL

L-CDR1:

TGSSSNIGATYDVH

L-CDR2:

SNNQRPS

L-CDR3:

AAWDWSLSGWV

HC:

EVQLLESGGGLVQPGGSLRLSCAASGFTFDDYAMSWVRQAPGKGLEWVSAIGTGGGTYYAD
SVKGRFTISRDN SKNTLYLQMNSLRAEDTAVYYCAREYYDSSGYYHLTYWGQGT LVTVSSAST
KGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSL
SVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKP
KDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLH
QDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYP
SDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFCSCVMHEALHNHY
TQKSLSLSPG

LC:

QSVLTQPPSASGTPGQRTISCTGSSSNIGATYDVHWYQQLPGTAPKLLIYSNNQRPSGVPDR
FSGSKSGTSASLAISGLRSEDEADYYCAAWDWSLSGWVFGGGTKLTVLGQPKAAPSVTLFPP
SSEELQANKATLVCLISDFYPGAVTVAWKADSSPVKAGVETTTTPSKQSNNKYAASSYLSLTPEQ
WKSHRSYSCQVTHEGSTVEKTVAPTECS

- 28/35 -

15.11: TPP-17041

VH:

EVQLLES GGG LVQP GGS LRLSCAASGFTFSDYAMSWVRQAPGKGLEWVSAIGTGGGTYYAD
SVKGRFTISRDN SKNTLYLQMNSLRAEDTAVYYCAREGYDSSGYYHLDYWGQGT LVT VSS

H-CDR1:

DYAMS

H-CDR2:

AIGTGGGTYYADSVKG

H-CDR3:

EGYDSSGYYHLDY

VL:

QSVLTQPPSASGTPGQRVTISCTGSSSNIGATYDVHWYQQLPGTAPKLLIYSNNQRPSGVPDR
FSGSKSGTSASLAISGLRSEDEADYYCAAWDWSLSGWVFGGGTKLTVL

L-CDR1:

TGSSSNIGATYDVH

L-CDR2:

SNNQRPS

L-CDR3:

AAWDWSLSGWV

HC:

EVQLLES GGG LVQP GGS LRLSCAASGFTFSDYAMSWVRQAPGKGLEWVSAIGTGGGTYYAD
SVKGRFTISRDN SKNTLYLQMNSLRAEDTAVYYCAREGYDSSGYYHLDYWGQGT LVT VSSAS
TKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVT VSWNSGALTSGVHTFPAVLQSSGLYSL
SSVTVTPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELLGGPSVFLFPPK
PKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVL
HQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGF
YPSDIAVEWESNGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHN
HYTQKSLSLSPG

LC:

QSVLTQPPSASGTPGQRVTISCTGSSSNIGATYDVHWYQQLPGTAPKLLIYSNNQRPSGVPDR
FSGSKSGTSASLAISGLRSEDEADYYCAAWDWSLSGWVFGGGTKLTVLGQPKAAPSVTLFPP
SSEELQANKATLVCLISDFYPGAVTVAWKADSSPVKAGVETTTTPSKQSNNKYAASSYLSLTPEQ
WKSHRSYSCQVTHEGSTVEKTVAPTECS

- 29/35 -

15.12: TPP-17044

VH:

EVQLLESGGGLVQPGGSLRLSCAASGFTFDDYAMSWVRQAPGKGLEWVSAIGTGGSTYYAD
SVKGRFTISRDN SKNTLYLQMNSLRAEDTAVYYCAREGYDSSGYYHLDYWGQGT LVTVSS

H-CDR1:

DYAMS

H-CDR2:

AIGTGGSTYYADSVKG

H-CDR3:

EGYDSSGYYHLDY

VL:

QSVLTQPPSASGTPGQRVTISCTGSSSNIGATYDVHWYQQLPGTAPKLLIYSNNQRPSGVPDR
FSGSKSGTSASLAISGLRSEDEADYYCAAWDWSLSGWVFGGGTKLTVL

L-CDR1:

TGSSSNIGATYDVH

L-CDR2:

SNNQRPS

L-CDR3:

AAWDWSLSGWV

HC:

EVQLLESGGGLVQPGGSLRLSCAASGFTFDDYAMSWVRQAPGKGLEWVSAIGTGGSTYYAD
SVKGRFTISRDN SKNTLYLQMNSLRAEDTAVYYCAREGYDSSGYYHLDYWGQGT LVTVSSAS
TKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSL
SSVTVTPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELLGGPSVFLFPPK
PKDTLMISRTPEVTCVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVL
HQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGF
YPSDIAVEWESNGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHN
HYTQKSLSLSPG

LC:

QSVLTQPPSASGTPGQRVTISCTGSSSNIGATYDVHWYQQLPGTAPKLLIYSNNQRPSGVPDR
FSGSKSGTSASLAISGLRSEDEADYYCAAWDWSLSGWVFGGGTKLTVLGQPKAAPSVTLFPP
SSEELQANKATLVCLISDFYPGAVTVAWKADSSPVKAGVETTTTPSKQSNNKYAASSYLSLTPEQ
WKSHRSYSCQVTHEGSTVEKTVAPTECS

- 30/35 -

15.13: TPP-17045

VH:

EVQLLESGGGLVQPGGSLRLSCAASGFTFDDYAMSWVRQAPGKGLEWWSAIGTGGGTYYAD
SVKGRFTISRDN SKNTLYLQMNSLRAEDTAVYYCAKEGYDSSGYYHLDYWGQGT LVT VSS

H-CDR1:

DYAMS

H-CDR2:

AIGTGGGTYYADSVKG

H-CDR3:

EGYDSSGYYHLDY

VL:

QSVLTQPPSASGTPGQRTISCTGSSSNIGATYDVHWYQQLPGTAPKLLIYSNNQRPSGVPDR
FSGSKSGTSASLAISGLRSEDEADYYCAAWDWSLSGWVFGGGTKLTVL

L-CDR1:

TGSSSNIGATYDVH

L-CDR2:

SNNQRPS

L-CDR3:

AAWDWSLSGWV

HC:

EVQLLESGGGLVQPGGSLRLSCAASGFTFDDYAMSWVRQAPGKGLEWWSAIGTGGGTYYAD
SVKGRFTISRDN SKNTLYLQMNSLRAEDTAVYYCAKEGYDSSGYYHLDYWGQGT LVT VSSAS
TKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVT VSWNSGALTSGVHTFPAVLQSSGLYSL
SSVTVTPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELLGGPSVFLFPPK
PKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVL
HQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGF
YPSDIAVEWESNGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNV FSCSV MHEALHN
HYTQKSLSLSPG

LC:

QSVLTQPPSASGTPGQRTISCTGSSSNIGATYDVHWYQQLPGTAPKLLIYSNNQRPSGVPDR
FSGSKSGTSASLAISGLRSEDEADYYCAAWDWSLSGWVFGGGTKLTVLGQPKAAPSVTLFPP
SSEELQANKATLVCLISDFYPGAVTVAWKADSSPVKAGVETTTTPSKQSNNKYAASSYLSLTPEQ
WKSHRSYSCQVTHEGSTVEKTVAPTECS

- 31/35 -

15.14: TPP-17048

VH:

EVQLLESGGGLVQPGGSLRLSCAASGFTFSDYAMSWVRQAPGKGLEWVSAIGTGGSTYYAD
SVKGRFTISRDN SKNTLYLQMNSLRAEDTAVYYCAREGYDSSGYYHLDYWGQGT LVTVSS

H-CDR1:

DYAMS

H-CDR2:

AIGTGGSTYYADSVKG

H-CDR3:

EGYDSSGYYHLDY

VL:

QSVLTQPPSASGTPGQRTISCTGSSSNIGATYDVHWYQQLPGTAPKLLIYSNNQRPSGVPDR
FSGSKSGTSASLAISGLRSEDEADYYCAAWDWSLSGWVFGGGTKLTVL

L-CDR1:

TGSSSNIGATYDVH

L-CDR2:

SNNQRPS

L-CDR3:

AAWDWSLSGWV

HC:

EVQLLESGGGLVQPGGSLRLSCAASGFTFSDYAMSWVRQAPGKGLEWVSAIGTGGSTYYAD
SVKGRFTISRDN SKNTLYLQMNSLRAEDTAVYYCAREGYDSSGYYHLDYWGQGT LVTVSSAS
TKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVT VSWNSGALTSGVHTFPAVLQSSGLYSL
SSVTVTPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELLGGPSVFLFPPK
PKDTLMISRTPEVTCVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVL
HQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGF
YPSDIAVEWESNGQPENNYKTTPVLDSDGSFFLYSKLTVDKSRWQQGNV FSCSVMHEALHN
HYTQKSLSLSPG

LC:

QSVLTQPPSASGTPGQRTISCTGSSSNIGATYDVHWYQQLPGTAPKLLIYSNNQRPSGVPDR
FSGSKSGTSASLAISGLRSEDEADYYCAAWDWSLSGWVFGGGTKLTVLGQPKAAPSVTLFPP
SSEELQANKATLVCLISDFYPGAVTVAWKADSSPVKAGVETTTTPSKQSNNKYAASSYLSLTPEQ
WKSHRSYSCQVTHEGSTVEKTVAPTECS

- 32/35 -

15.15: TPP-17051

VH:

EVQLLESGGGLVQPGGSLRLSCAASGFTFDSYAMSWVRQAPGKGLEWVSAIGTGGSTYYAD
SVKGRFTISRDN SKNTLYLQMNSLRAEDTAVYYCAREGYDSSGYYHLDYWGQGT LVTVSS

H-CDR1:

SYAMS

H-CDR2:

AIGTGGSTYYADSVKG

H-CDR3:

EGYDSSGYYHLDY

VL:

QSVLTQPPSASGTPGQRTISCTGSSSNIGATYDVHWYQQLPGTAPKLLIYSNNQRPSGVPDR
FSGSKSGTSASLAISGLRSEDEADYYCAAWDWSLSGWVFGGGTKLTVL

L-CDR1:

TGSSSNIGATYDVH

L-CDR2:

SNNQRPS

L-CDR3:

AAWDWSLSGWV

HC:

EVQLLESGGGLVQPGGSLRLSCAASGFTFDSYAMSWVRQAPGKGLEWVSAIGTGGSTYYAD
SVKGRFTISRDN SKNTLYLQMNSLRAEDTAVYYCAREGYDSSGYYHLDYWGQGT LVTVSSAS
TKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVT VSWNSGALTSGVHTFPAVLQSSGLYSL
SSVTVTPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELLGGPSVFLFPPK
PKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVL
HQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGF
YPSDIAVEWESNGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNV FSCSVMHEALHN
HYTQKSLSLSPG

LC:

QSVLTQPPSASGTPGQRTISCTGSSSNIGATYDVHWYQQLPGTAPKLLIYSNNQRPSGVPDR
FSGSKSGTSASLAISGLRSEDEADYYCAAWDWSLSGWVFGGGTKLTVLGQPKAAPSVTLFPP
SSEELQANKATLVCLISDFYPGAVTVAWKADSSPVKAGVETTTTPSKQSNNKYAASSYLSLTPEQ
WKSHRSYSCQVTHEGSTVEKTVAPTECS

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15.16: TPP-17053

VH:

EVQLLESGGGLVQPGGSLRLSCAASGFTFDDYAMSWVRQAPGKGLEWVSAIGSGGSTYYAD
SVKGRFTISRDN SKNTLYLQMNSLRAEDTAVYYCAREGYDSSGYYHLDYWGQGT LVT VSS

H-CDR1:

DYAMS

H-CDR2:

AIGSGGSTYYADSVKG

H-CDR3:

EGYDSSGYYHLDY

VL:

QSVLTQPPSASGTPGQRVTISCTGSSSNIGATYDVHWYQQLPGTAPKLLIYSNNQRPSGVPDR
FSGSKSGTSASLAISGLRSEDEADYYCAAWDWSLSGWVFGGGTKLTVL

L-CDR1:

TGSSSNIGATYDVH

L-CDR2:

SNNQRPS

L-CDR3:

AAWDWSLSGWV

HC:

EVQLLESGGGLVQPGGSLRLSCAASGFTFDDYAMSWVRQAPGKGLEWVSAIGSGGSTYYAD
SVKGRFTISRDN SKNTLYLQMNSLRAEDTAVYYCAREGYDSSGYYHLDYWGQGT LVT VSSAS
TKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVT VSWNSGALTSGVHTFPAVLQSSGLYSL
SSVTVTPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELLGGPSVFLFPPK
PKDTLMISRTPEVTCVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVL
HQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGF
YPSDIAVEWESNGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHN
HYTQKSLSLSPG

LC:

QSVLTQPPSASGTPGQRVTISCTGSSSNIGATYDVHWYQQLPGTAPKLLIYSNNQRPSGVPDR
FSGSKSGTSASLAISGLRSEDEADYYCAAWDWSLSGWVFGGGTKLTVLGQPKAAPSVTLFPP
SSEELQANKATLVCLISDFYPGAVTVAWKADSSPVKAGVETTTTPSKQSNNKYAASSYLSLTPEQ
WKSHRSYSCQVTHEGSTVEKTVAPTECS

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15.17: TPP-17928

VH:

EVQLLES G G G L V Q P G G S L R L S C A A S G F T F D D Y A M S W V R Q A P G K G L E W V S A I G T G G S T Y Y A D
S V K G R F T I S R D N S K N T L Y L Q M N S L R A E D T A V Y Y C A R E G Y D S S G Y Y H L D Y W G Q G T L V T V S S

H-CDR1:

DYAMS

H-CDR2:

AIGTGGSTYYADSVKG

H-CDR3:

EGYDSSGYHLDY

VL:

QSVLTQPPSASGTPGQRTISCTGSSSNIGATYDVHWYQQLPGTAPKLLIYSNNQRPSGVPDR
FSGSKSGTSASLAISGLRSEDEADYYCAAWDWSLSGWVFGGGTKLTVL

L-CDR1:

TGSSSNIGATYDVH

L-CDR2:

SNNQRPS

L-CDR3:

AAWDWSLSGWV

HC:

EVQLLES G G G L V Q P G G S L R L S C A A S G F T F D D Y A M S W V R Q A P G K G L E W V S A I G T G G S T Y Y A D
S V K G R F T I S R D N S K N T L Y L Q M N S L R A E D T A V Y Y C A R E G Y D S S G Y Y H L D Y W G Q G T L V T V S S A S
T K G P S V F P L A P C S R S T S E S T A A L G C L V K D Y F P E P V T V S W N S G A L T S G V H T F P A V L Q S S G L Y S L
S S V V T V P S S S L G T K Y T C N V D H K P S N T K V D K R V E S K Y G P P C P P C P A P E F L G G P S V F L F P P K P K
D T L M I S R T P E V T C V V V D V S Q E D P E V Q F N W Y V D G V E V H N A K T K P R E E Q F N S T Y R V V S V L T V L H
Q D W L N G K E Y K C K V S N K G L P S S I E K T I S K A K G Q P R E P Q V Y T L P P S Q E E M T K N Q V S L T C L V K G F Y
P S D I A V E W E S N G Q P E N N Y K T T P P V L D S D G S F F L Y S R L T V D K S R W Q E G N V F S C S V M H E A L H N H
Y T Q K S L S L S L G

LC:

QSVLTQPPSASGTPGQRTISCTGSSSNIGATYDVHWYQQLPGTAPKLLIYSNNQRPSGVPDR
FSGSKSGTSASLAISGLRSEDEADYYCAAWDWSLSGWVFGGGTKLTVLGQPKAAPSVTLFPP
SSEELQANKATLVCLISDFYPGAVTVAWKADSSPVKAGVETTTTPSKQSNNKYAASSYLSLTPEQ
WKSHRSYSCQVTHEGSTVEKTVAPTECS

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Figure 16

