

DPA Heavy chain

Q V Q L Q E S G P G L V K P S E T L S L
1 cagggtgcagctgcaggagtcggggccaggactggtgaagccttcggagaccctgtccctc 60
T C T V S G G S I S S Y Y W S W I R Q P
61 acctgcactgtctctggtggctccatcagtagttactactggagctggatccggcagccc 120
P G K G L E W I G Y I Y K S G S T I Y N
121 ccaggggaagggactggagtggttgggtatatctataagagtgaggagcaccatctacaat 180
P S L K S R V T I S V D T S K N Q F S L
181 ccctccctcaagagtcgagtcaccatatcagtagacacgtccaagaaccagttctccctg 240
K L T S V T A A D T A V Y Y C A R E P P
241 aagctgacctctgtgaccgctgaggacacggcgtgtattactgtgcgagagagccaccc 300
R G S G W R Y W Y F D L W G R G T L V T
301 cggggcagtggtggcgatatattggtacttcgatctctctggggcgtggcaccctggtcact 360
V S S A S T K G P S V F P L A P S S K S
361 gtctcctcagcctccaccaagggcccatcgggtcttccccctggcaccctcctccaagagc 420
T S G G T A A L G C L V K D Y F P E P V
421 acctctgggggcacagcggccctgggctgcttgggtcaaggactacttccccgaaccggtg 480
T V S W N S G A L T S G V H T F P A V L
481 acggtgtcgtggaactcaggcgccctgaccagcggcgtgcacaccttcccggtgtccta 540
Q S G L Y S G L S S V V T V P S S S L G
541 cagtcctcaggactctactccctcagcagcgtggtgaccgtgccctccagcagcttgggc 600
T Q T Y I C N V N H K P S N T K V D K R
601 acccagacctacatctgcaacgtgaatcacaagcccagcaacaccaaggtggacaagaga 660
V E P K S C D K T H T C P P C P A P E L
661 gttgagcccaaatcttgtgacaaaactcacacatgccaccgtgccagcacctgaactc 720
L G G P S V F L F P P K P K D T L M I S
721 ctgggggggaccgtcagtccttcttccccccaaaacccaaggacaccctcatgatctcc 780
R T P E V T C V V V D V S H E D P E V K
781 cggacccctgaggtcacatgcgtggtggtggacgtgagccacgaagaccctgaggtcaag 840
F N W Y V D G V E V H N A K T K P R E E
841 ttcaactggtacgtggacggcgtggaggtgcataatgccaagacaaagccgaggaggag 900
Q Y N S T Y R V V S V L T V L H Q D W L
901 cagtacaacagcagtcaccgtgtggtcagcgtcctcaccgtcctgcaccaggatggctg 960
N G K E Y K C K V S N K A L P A P I E K
961 aatggcaaggagtacaagtgcaaggtctccaacaaagccctcccagcccccatcgagaaa 1020
T I S K A K G Q P R E P Q V Y T L P P S
1021 accatctccaaagccaaagggcagccccgagaaccacaggtgtacaccctgcccccatcc 1080
R E E M T K N Q V S L T C L V K G F Y P
1081 cgggaggagatgaccaagaaccaggtcagcctgacctgcctggtcaaaggcttctatccc 1140
S D I A V E W E S N G Q P E N N Y K T T
1141 agcgacatcgccgtggagtgaggaggaatgggcagccggagaacaactacaagaccacg 1200
P P V L D S D G S F F L Y S K L T V D K
1201 cctcccggtgctggactccgacggctccttcttctctatagcaagctcaccgtggacaag 1260
S R W Q Q G N V F S C S V M H E A L H N
1261 agcaggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctctgcacaa 1320
H Y T Q K S L S L S P E L Q L E E S C A
1321 cactacacgcagaagagcctctccctgtccccggagctgcaactggaggagagctgtgag 1380
E A Q D G E L D G L W T T I T I F I T L
1381 gagggcgaggacggggagctggacgggctgtggacgaccatcaccatcttcatcacactc 1440
F L L S V C Y S A T V T F F K V K W I F
1441 ttctgtttaagcgtgtgctacagtgccaccgtcaccttcttcaaggtgaagtggatcttc 1500
S S V V D L K Q T I I P D Y R N M I G Q
1501 tcctcgggtggtggacctgaagcagaccatcatccccgactacaggaacatgatcgagac 1560
G A *
1561 ggggcctag 1569

DPA Light chain

Q S A L T Q P A S V S G S P G Q S I T I
1 cagtctgccctgactcagcctgcctccgtgtctgggtctcctggacagtcgatcaccatc 60
S C T G T S S D V G G Y N Y V S W Y Q Q
61 tcctgcactggaaccagcagtgacgttgggtgggttataactatgtctcctgggtaccaacag 120
H P G K A P K L M I Y G V S D R P S G V
121 caccagggcaaagcccccaaactcatgatttatggggtcagtgatcgggccctcaggggtc 180
P D R F S G S K S G N T A S L T I S G L
181 cctgatcgcttctctgggtccaagtctggcaacacggcctccctgaccatctctggggtc 240
Q A E D E G D Y Y C S S Y T S S S T V V
241 caggctgaggacgaggggtgattattactgcagctcatatacaagcagcagcactgtggta 300
F G G G T K L T V L G Q P K A A P S V T
301 ttcgggcggagggaccaagttgaccgtcctaggtcagcccaagggtgccccctcggtcact 360
L F P P S S E E L Q A N K A T L V C L I
361 ctgttccccgccctcctctgaggagcttcaagccaacaaggccacactgggtgtgtctcata 420
S D F Y P G A V T V A W K A D S S P V K
421 agtgacttctacccgggagccgtgacagtggcctggaaggcagatagcagccccgtcaag 480
A G V E T T T P S K Q S N N K Y A A S S
481 gcgggagtgagaccaccacaccctccaaacaaagcaacaacaagtacgcgggccagcagc 540
Y L S L T P E Q W K S H R S Y S C Q V T
541 tatctgagcctgacgcctgagcagtggaagtcccacagaagctacagctgccagggtcacg 600
H E G S T V E K T V A P T E C S *
601 catgaagggagcaccgtggagaagacagtgggcccctacagaatgttcataa 651

DPD Heavy chain

Q V Q L Q E S G P G L V K P S E T L S L
 1 cagggtgcagctgcaggagtcggggccaggactggtgaagccttcggagaccctgtcactc 60
 T C T V S G G S I S I Y Y W S W I R Q P
 61 acctgcactgttttctggtggctccatcagtagatcttactactggagctggatccgccagccc 120
 A A K G L E W I G R I Y T N G T T N Y N
 121 gccgcgaagggactggagtggttggcgctatctataccaatgggaccaccaattacaac 180
 P S L K S R V S M S V D T S K N Q F S L
 181 ccctccctcaagagtcgagtcctcatgtcagtagacacgtccaagaaccagttctccctg 240
 K L T S V T A A D T A V Y Y C A R Q G G
 241 aaactgacctctgtgaccgccgacacggccgdtatattactgtgagagacagggggc 300
 L V G A S G R R D Y F D Y W G Q G T L V
 301 ctagtgggagccagcggacggcgctgactactttgactactggggccagggaaccctgggtc 360
 T V S S A S T K G P S V F P L A P S S K
 361 accgtctcctcagcctccaccaagggcccatcggtcttccccctggcaccctcctccaag 420
 S T S G G T A A L G C L V K D Y F P E P
 421 agcacctctgggggcacagcggccctgggctgcctgggtcaaggactacttccccgaaccg 480
 V T V S W N S G A L T S G V H T F P A V
 481 gtgacggtgtcgtggaactcaggcgccctgaccagcggcggtgcacaccttcccggtgtc 540
 L Q S S G L Y S L S S V V T V P S S S L
 541 ctacagtcctcaggactctactccctcagcagcgtggtgaccgtgccctccagcagcttg 600
 G T Q T Y I C N V N H K P S N T K V D K
 601 ggcaccagacctacatctgcaacgtgaatcacaaagcccagcaacaccaaggtggacaag 660
 K V E P C D K T H T C P P C P A P E
 661 aaagttgagcccaaatcttgtgacaaaactcacacatgccaccgtgccagcacctgaa 720
 L L G G P S V F L F P P K P K D T L M I
 721 ctctctggggggaccgtcagtccttcttcttccccccaaaacccaaggacaccctcatgac 780
 S R T P E V T C V V V D V S H E D P E V
 781 tcccggaaccctgaggtcacatgcgtggtggtggacgtgagccacgaagaccctgaggtc 840
 K F N W Y V D G V E V H N A K T K P R E
 841 aagttcaactggtacgtggacggcggtggaggtgcataatgccaagacaaagccgcgggag 900
 E Q Y N S T Y R V V S V L T V L H Q D W
 901 gagcagtacaacagcacgtaccgtgtggtcagcgtcctcaccgtcctgcaccaggactgg 960
 L N G K E Y K C K V S N K A L P A P I E
 961 ctgaatggcaaggagtacaagtgaaggtctccaacaaagccctcccagccccctcag 1020
 K T I S K A K G Q P R E P Q V Y T L P P
 1021 aaaaccatctccaaagccaaagggcagccccgagaaccacaggtgtacaccctgccccca 1080
 S R D E L T K N Q V S L T C L V K G F Y
 1081 tcccgggatgagctgaccaagaaccaggtcagcctgacctgctggtcaaaggcttctat 1140
 P S D I A V E W E S N G Q P E N N Y K T
 1141 cccagcgacatcgccgtggagtgaggagcaatgggcagccggagaacaactacaagacc 1200
 T P P V L D S D G S F F L Y S K L T V D
 1201 acgcctcccgtgctggactccgacggctccttcttctctacagcaagctcaccgtggac 1260
 K S R W Q Q G N V F S C S V M H E G L H
 1261 aagagcaggtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggggtctgcac 1320
 N H Y T Q K S L S L S P E L Q L E E S C
 1321 aaccactacacgcagaagagcctctccctgtctccggagctgcaactggaggagagctgt 1380
 A E A Q D G E L D G G L W T T I T I T I T
 1381 gcggaggcgcagggagctggacggctgtggagcagccatcaccatcttcatcaca 1440
 L F L L S V C Y S A T V T F F K V K W I
 1441 ctcttctctgttaagcgtgtgctacagtgccaccgtcaccttcttcaaggtgaagtggatc 1500
 F S S V V D L K Q T I I P D Y R N M I G
 1501 ttctcctcggtggtggacctgaagcagaccatcatccccgactacaggaacatgatcgga 1560
 Q G A *
 1561 cagggggcctag 1572

DPD Light chain

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1   D I V M T Q S P D S L A V S L G E R A T
   gacatcgtgatgacccagtcctccagactccctggctgtgtctctctgggcgagagggccacc 60
61  I N C K S S Q I V L Y S S N N K N Y L A
   atcaactgcaagtccagccagattgttttatacagctccaacaacaagaactattttagct 120
   W Y Q Q K P G Q P P K L L I Y W A S T R
121  tggtaccagcagaaaccaggacagcctcctaaactgctcatttactgggcactctaccgg 180
   K S G V P D R F S G S G S G T D F T L T
181  aaatccgggggtccctgaccgattcagtgggcagcgggtctgggacagatttcactctcacc 240
   I S S L Q A E D V A V Y Y C Q Q Y Y T T
241  atcagcagcctgcaggctgaagatgtggcagtttattactgtcagcaatactatactact 300
   P L T F G G G T K V E I K R T V A A P S
301  ccgctcactttcggcggagggaccaaggtggagatcaaacgaactgtggctgcaccatct 360
   V F I F P P S D E Q L K S G T A S V V C
361  gtccttcactcttcccgccatctgatgagcagttgaaatctggaactgcctctgttggtgtgc 420
   L L N N F Y P R E A K V Q W K V D N A L
421  ctgctgaataactttctatcccagagaggccaaagtacagtggaaggtggataacgccctc 480
   Q S G N S Q E S V T E Q D S K D S T Y S
481  caatcgggtaactcccaggagagtgtcacagagcaggacagcaaggacagcacctacagc 540
   L S S T L T L S K A D Y E K H K V Y A C
541  ctcagcagcaccctgacgctgagcaaagcagactacgagaaacacaaagtctacgcctgc 600
   E V T H Q G L S S P V T K S F N R G E S
601  gaagtcacccatcagggcctgagctcgcccgtcacaagagcttcaacaggggagagtct 660
   *
661  tag 663

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