

[GENETYX-MAC: Translation of Nucleotides into Amino Acids for Thesis]

Date : 2018.08.16
Filename : MP2-NAstalk-murineIL12p40-35-addLinkerGG_0814.seq
Sequence size : 2136
Sequence Position: 1 - 2136

Translation Position: 1 - 2136

Genetic Code: Standard Genetic Code

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      10      20      30      40      50      60
ATGTCAC TGTGACAGAAGTGGAAACACCTATCAGAAACGAATGGGGTTGCAGATGCAAC
M S L L T E V E T P I R N E W G C R C N
A/Aichi/2/1968 (H3N2) MP2 conserved region (Human consensus)

      70      80      90     100     110     120
GACTCATCAGACCCTCTGGTGGTGGCTTCAATCATCGGTATCCTGCACCTGATCCTG
D S S D P L V V A A S I I G I L H L I L
      Transmembrane domain

     130     140     150     160     170     180
TGGATCCTGGACAGACTGTTCTTCAAATGCATCTACAGATTCTTGAACACGGTCTGAAA
W I L D R L F F K C I Y R F F E H G L K

     190     200     210     220     230     240
AGAGGTCCTTCAACAGAAGGTGTCCTGAATCAATGAGAGAAGAATACAGAAAAGAACA
R G P S T E G V P E S M R E E Y R K E Q

     250     260     270     280     290     300
CAATCAGCTGTGGACGCTGACGACTCACACTTCGTGTCAATCGAACTGGAAAGGTGACTAC
Q S A V D A D D S H F V S I E L E G D Y
                               Linker G

     310     320     330     340     350     360
AAAGACGACGACGACAAAAGGTGGTATGAACCTAACCAAAAAATCATCACAATCGGTTCA
K D D D K G G M N P N Q K I I T I G S
Flag sequence Linker GG N2 cytoplasmic tail Transmembrane domain

     370     380     390     400     410     420
GTGTCACGAAATCGCTACAGTGTGCTTCCTGATGCAATCGCTATCCTGGTGACAACA
V S L T I A T V C F L M Q I A I L V T T
A/Aichi/2/1968(H3N2) N2NA

     430     440     450     460     470     480
GTGACACTGCACCTTCAAAACATCGAATGCGACTCACCTGCTTCAAAACCAAGTGATGCCT
V T L H F K Q Y E C D S P A S N Q V M P
      A/Aichi/2/1968(H3N2) N2NA Stalk region

     490     500     510     520     530     540
TGCGAACCTATCATCATCGAAAGAAACATCACAGAAATCGGTACCTGAACAACACAACA
C E P I I I E R N I T E I V Y L N N T T
      A/Aichi/2/1968(H3N2) N2NA Stalk region

     550     560     570     580     590     600
ATCGAAAAGAAGGTGGTATGTGGGAACTGGAAAAAGACGTGTACGTGGTGAAGTGGAC
I E K E G G M W E L E K D V Y V V E V D
      Linker GG murine IL12 p40

     610     620     630     640     650     660
TGGACACCTGACGCTCCTGGTGAACAGTGAACCTGACATGCGACACACCTGAAGAAGAC
W T P D A P G E T V N L T C D T P E E D

     670     680     690     700     710     720
GACATCACATGGACATCAGACCAAAGACCGGTGTGATCGGTTACGGTAAAACACTGACA
D I T W T S D Q R H G V I G S G K T L T
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730 740 750 760 770 780
ATCACAGTGAAGAATTCTGGACGCTGGTCAATACACATGCCACAAAGGTGGTGAACA
I T V K E F L D A G Q Y T C H K G G E T

790 800 810 820 830 840
CTGTCACACTCACACCTGCTGCTGCACAAAAAGAAAACGGTATCTGGTCAACAGAAATC
L S H S H L L L H K K E N G I W S T E I

850 860 870 880 890 900
CTGAAAACTTCAAAAACAAACATTCTGAAATGCGAAGCTCCTAACTACTCAGGTAGA
L K N F K N K T F L K C E A P N Y S G R

910 920 930 940 950 960
TTCACATGCTCATGGCTGGTCAAAGAAACATGGACCTGAAATTC AACATCAATCATCA
F T C S W L V Q R N M D L K F N I K S S

970 980 990 1000 1010 1020
TCATCATCACTGACTCAAGAGCTGTGACATGCGGTACAGCTTCACTGTCAGCTGAAAA
S S S P D S R A V T C G T A S L S A E K

1030 1040 1050 1060 1070 1080
GTGACACTGGACCAAGAGACTACGAAAAATACTCAGTGTATGCAAGAGACGTGACA
V T L D Q R D Y E K Y S V S C Q E D V T

1090 1100 1110 1120 1130 1140
TGCCTACAGCTGAAGAAACACTGCCTATCGAACTGGCTGGAAGTAGACAACAAAAC
C P T A E E T L P I E L A L E A R Q Q N

1150 1160 1170 1180 1190 1200
AAATACGAAAACACTCAACATCATTCTTCATCAGAGACATCAAACTGACCTCCT
K Y E N Y S T S F F I R D I I K P D P P

1210 1220 1230 1240 1250 1260
AAAAACCTGCAATGAAACCTCTGAAAACTCACAAGTGAAGTGTATGGGAATACCTT
K N L Q M K P L K N S Q V E V S W E Y P

1270 1280 1290 1300 1310 1320
GACTCATGGTCAACACCTCACTCATACTTCTCACTGAAATTCCTCGTGAATCCAAAGA
D S W S T P H S Y F S L K F F V R I Q R

1330 1340 1350 1360 1370 1380
AAAAAAGAAAAATGAAAGAAACAGAAAGGTTGCAACCAAAAAGGTGCTCTGCTGGTG
K K E K M K E T E E G C N Q K G A L L V

1390 1400 1410 1420 1430 1440
GAAAAACATCAACAGAAGTGAATGCAAAGGTGTAACGTGTGCGTGCAAGCTCAAGAC
E K T S T E V Q C K G G N V C V Q A Q D

1450 1460 1470 1480 1490 1500
AGATACTACAACCTCATCATGCTCAAAATGGGCTTGCCTGTCAGAGTGAGATCAGGT
R Y Y N S S C S K W A C V P C R V R S G

1510 1520 1530 1540 1550 1560
GGTGGTGTACAGGTGGTGGTTCAGGTGGTGGTACAGGTGGTGGTGGTAGAGTG
G G G T G G G S G G G G T G G G G R V
Linker sequence

1570 1580 1590 1600 1610 1620
ATCCCTGTGT CAGGTCCTGCTAGATGCCTGT CACAATCAAGAACTGCTGAAAAACA
I P V S G P A R C L S Q S R N L L K T T
murine IL12 p35

1630 1640 1650 1660 1670 1680
GACGACATGGTGAAAAACAGCTAGAGAAAACTGAAACACTACTCATGCACAGCTGAAGAC
D D M V K T A R E K L K H Y S C T A E D

1690 1700 1710 1720 1730 1740
ATCGACCACGAAGACATCACAAGAGACCAAACATCAACTGAAAACATGCCTGCCTCTG
I D H E D I T R D Q T S T L K T C L P L

1750 1760 1770 1780 1790 1800
GAACTGCACAAAAACGAATCATGCCTGGCTACAAGAGAAACATCATCAACAACAAGAGGT
E L H K N E S C L A T R E T S S T T R G

1810 1820 1830 1840 1850 1860
TCATGCCTGCCTCCTCAAAAAACATCACTGATGATGACACTGTGCCTGGTTCAATCTAC
S C L P P Q K T S L M M T L C L G S I Y

1870 1880 1890 1900 1910 1920
GAAGACCTGAAAAATGTACCAAAACAGAATTCCAAGCTATCAACGCTGCTCTGAAAACAC
E D L K M Y Q T E F Q A I N A A L Q N H

1930 1940 1950 1960 1970 1980
AACCACCAACAAATCATCCTGGACAAAGGTATGCTGGTGGCTATCGACGAAGTATGCAA
N H Q Q I I L D K G M L V A I D E L M Q

1990 2000 2010 2020 2030 2040
TCACTGAACCACAACGGTGAAACACTGAGACAAAAACCTCCTGTGGGTGAAGCTGACCCT
S L N H N G E T L R Q K P P V G E A D P

2050 2060 2070 2080 2090 2100
TACAGAGTGAAAAATGAAACTGTGCATCCTGCTGCACGCTTTCTCAACAAGAGTGGTGACA
Y R V K M K L C I L L H A F S T R V V T

2110 2120 2130
ATCAACAGAGTGATGGGTTACCTGTCATCAGCT_{taa}
I N R V M G Y L S S A *