



L5-MG (pPNL6)

Aga2p signal peptide

AGA2

+1 M Q L L R C F S I F S V I A S V L A Q E L T T I C E Q I P S P T L E

1 ATGCAGTTAC TTCGCTGTTT TTCAATATTT TCTGTTATTG CTTAGTTTT AGCACAGGAA CTGACAAC TA TGCGAGCA AATCCCCTCA CCAACTTTAG  
TACGTCAATG AAGCGACAAA AAGTTATAAA AGACAATAAC GAAGTCAAAA TCGTGTCTT GACTGTTGAT ATACGCTCGT TTAGGGGAGT GGTGAAATC

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AGA2

+1 . E S T P Y S L S T T T I L A N G K A M Q G V F E Y Y K S V T F V S N .

101 AATCGACGCC G TACTCTTTG TCAACGACTA CTATTTTGGC CAACGGGAAG GCAATGCAAG GAGTTTTTGA ATATTACAAA TCAGTAACGT TTGTCTAGTAA  
TTAGCTGCGG CATGAGAAAC AGTTGCTGAT GATAAAACCG GTTGCCCTTC CGTTACGTTC CTCAAAAAC TATAATGTTT AGTCATTGCA AACAGTCATT

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AGA2 linker Xa HA tag

+1 . N C G S H P S T T S K G S P I N T Q Y V F K D N S S T I E G R Y P Y

201 TTGCGGTTCT CACCCCTCAA CACTAGCAA AGGCAGCCCC ATAAACACAC AGTATGTTTT TAAGACAAT AGCTCGACGA TTGAAGGTAG ATACCCATAC  
AACGCCAAGA GTGGGGAGTT GTTGATCGTT TCCGTCGGGG TATTTGTGTG TCATACAAA ATTCTGTGTA TCGAGCTGCT AACTCCATC TATGGGTATC

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HA tag variable heavy chain fragment

+1 D V P D Y A L Q A S G G G G S G G G S G G G G S A S T G S F D S W

301 GACGTTCCAG ACTACGCTCT GCAGGCTAGT GGTGGTGGTG GTTCTGGTGG TGGTGGTTCT GGTGGTGGTG GTTCTGCTAG CACTGGCAGC TTTGACTCCT  
CTGCAAGGTC TGATGCGAGA CGTCCGATCA CCACCACCAC CAAGACCACC ACCACCAAGA CCACCACCAC CAAGACGATC GTGACCGTCG AAACGTAGGA

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linker

variable heavy chain fragment linker variable light chain

+1 . W G Q G T L V T V S S G I L G S G G G G S G G G G S G G G S Q A V .

401 GGGGCCAGGG AACCCCTGGT ACCGTCTCCT CAGGAATTCT AGGATCCGGT GCGCGTGGCA GCGGCGGTGG TGGTCCGGA GCGGCGGTGTT CTCAGGCTGT  
CCCCGGTCCC TTGGGACCAG TGGCAGAGGA GTCCTTAAGA TCTTAGGCCA CCGCCACCGT CGCCGCCACC ACCAAGGCCT CCGCCGCCAA GAGTCCGACA

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variable light chain CDR1

+1 . V V T Q E P S V T V S P G G T V I L T C G S S T G A V T S G H Y A N

501 GGTGACTCAG GAGCCGTCAG TACTGTGTC CCCAGGAGGG ACAGTCATTC TCAC TTGTGG CTCCAGCACT GGAGCTGTCA CCAGTGGTCA TTATGCCAAC  
CCACTGAGTC CTCGGCAGTC ACTGACACAG GGGTCCTCCC TGTCAGTAAG AGTGAACACC GAGGTCGTGA CCTCGACAGT GGTCACCAGT AATACGGTTG

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CDR2 variable light chain

+1 W F Q Q K P G Q A P R A L I F E T D K K Y S W T P G R F S G S L L G

601 TGGTTCCAGC AGAAGCCTGG CCAAGCCCC AGGGCACTTA TATTTGAAAC CGACAAGAAA TATTCCTGGA CCCCTGGCCG ATTCTCAGGC TCCCTCCTTG  
ACCAAGGTCG TCTTCGGACC GGTTCGGGG TCCCGTGAAT ATAACTTTG GCTGTTCTTT ATAAGGACCT GGGGACCGC TAAGAGTCCG AGGGAGGAAC

L5-MG (pPNL6)

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                                     variable light chain
                                     CDR3
+1  .G A K A A L T I S D A Q P E D E A E Y Y C L L S D V D G Y L F G G G
701  GGGCCAAGGC TGCCCTGACC ATCTCGGATG CGCAGCCTGA AGATGAGGCT GAGTATTACT GTTTGCTCTC CGACGTTGAC GGTTATCTGT TCGGAGGAGG
    CCCGGTTCCG ACGGGACTGG TAGAGCCTAC GCGTCGGACT TCTACTCCGA CTCATAATGA CAAACGAGAG GCTGCAACTG CCAATAGACA AGCCTCCTCC
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variable light chain
+1  .G T Q L T V L S G I L E Q K L I S E E D L *
801  CACCCAGCTG ACCGTCCTAT CCGGAATTCT AGAACAAAAG CTTATTTCTG AAGAAGACTT GTAA
    GTGGGTCGAC TGGCAGGATA GGCCTTAAGA TCTTGTTTTC GAATAAAGAC TTCTTCTGAA CATT

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