

Product datasheet for **MC218499**

Agbl4 (NM_030231) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	Agbl4
Synonyms:	4930578N1IRik; 4931433A01IRik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



Fully Sequenced ORF: >MC218499 representing NM_030231
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**

ATGCGGAGCGGAGCCAGACAGCGCCAGAGGCAGGCAATGATACAGGAAATGAGGATGCCATTGGAGGGA
 ATGTGAACAAATACATAGTGCTTCCAAATGGATACTCTGGACAGCCCAAGAAAGGACATCTTACCTTTGA
 TGCTTGCTTTGAAAGTGGTAACCTCGGCCGGTTGAGCAAGTCTCTGATTTTGGATATGATCTGTTCATT
 AGGCCGGACACCTGTAATCCACGCTTCCGAGTCTGGTTCACTTTACTGTTGAAATGTGAAAGAATTGC
 AGAGGGTAATTTCAACATTGTTAACTTCAGTAAACCAAGAGTCTTACCGAGATGGGATGGACCAAT
 GGTGAAATCTACCAGCAGACCAAAATGGCAAAGACTACCACCAAAAAACGTTTATTACTATCGCTGCCCA
 GACCACAGGAAGAACTATGTGATGTCCTTTCATTCTGTTTGGACCGAGAAGATGATATCTACAGTTTG
 CTTACTGCTACCTTATACATATACTCGCTTCCAGCATTACCTCGACAGCTTACAAAAGAAAAACATGGA
 TTATTTCTTCCGGGAACAGCTTGGACAGAGTGTGCAACAGCGGCAGCTTGACCTCTGACGATAACCAGC
 CCGGAGAATCTCCGTGAAGGGTCAGAAAAGAGGTGATATTCATCACAGGCGAGTCCACCCAGGGGAAA
 CGCCATCTTCATTGTGTGCCAAGGAATCATCGACTTCCTTGAAGTCAGCATCCAATTGCCCGTGTCTCT
 ACGAGAACATTTAGTCTCAAGATTGCTCCAATGCTCAACCCTGATGGAGTTTACCTGGGCAACTACAGG
 TGTTCCCTGATGGGGTTTGACCTGAATCGTCACTGGCTGGATCCCTCTCCATGGGCCATCCCACCCTGC
 ATGGAGTGAAACAGCTTATTATCAAGATGTACAATGACCCAAAAACAAGCCTGGAGTTCTATATTGACAT
 CCACGCTCACTCCACCATGATGAATGGCTTCATGTACGGCAATATCTTTGAGGATGAGGAACGGTTCCAA
 AGGCAGTCCATTTTCCAAACTCCTTGGCAGAATGCCGAGGACTTCTCTATACTAGCACATCCTTCA
 ACAGGGATGCTGTGAAAGCAGGAACAGGCGGCGCTTCTGGGCGGGCTTCTGGACCACTCATCACTG
 CTATACCTAGAGGTTTCTTCTACAGCTACATCATTGGGGGTACTACAGCTGCAGTGCCCTACACTGAA
 GAAGCCTATATGAAACTGGGACGGAACGTGGCAAGAACATTTCTAGATTATTACCGGCTGAACCTCCTGG
 TTGAGAAGATAGCAGTCCCCATGCCAAGACTTCGATCCAAGGAGGAAAGAACTGGGATGGGAGCATCC
 ATCTTGTCTGAGGGCTGAACAACCACTGGAAGTGTGGGAATTCATGTTCTGGTAAAGCACTCAAT
 GAGCATCTTGGCAATGACATCCAGTGGCATCTGGATTGTGGTAGCAGTACCCTACCTCTGGGCTCATCT
 CCTGTTCCCTAGTAGCTCAGCTCCTGGAATGACATGGCAATGTCCAACCTATACTCCTGCCAGACCA
 TTCTTTTCA**CTGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_030231

Insert Size: 1623 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_030231.3, NP_084507.1</u>
RefSeq Size:	1900 bp
RefSeq ORF:	1623 bp
Locus ID:	78933
UniProt ID:	<u>Q09LZ8</u>
Cytogenetics:	4 C7-D1
Gene Summary:	Metalloprotease that mediates deglutamylation of target proteins (PubMed:17244818, PubMed:21074048, PubMed:25103237, PubMed:26829768). Catalyzes the deglutamylation of polyglutamate side chains generated by post-translational polyglutamylation in proteins such as tubulins (PubMed:17244818). Also removes polyglutamates from the carboxy-terminus of target proteins such as MYLK (PubMed:21074048). Mediates deglutamylation of CGAS, regulating the antiviral activity of CGAS (PubMed:26829768). Acts as a long-chain deglutaminase and specifically shortens long polyglutamate chains, while it is not able to remove the branching point glutamate, a process catalyzed by AGL5/CCP5 (PubMed:25103237).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) encodes the longest isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.