

Product datasheet for **MC216343**

Agbl4 (NM_001048189) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Agbl4 (NM_001048189) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Agbl4
Synonyms:	4930578N11Rik; 4931433A01Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC216343 representing NM_001048189
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGGCGGAGCGGAGCCAGACAGCGCCAGAGGCAGGCAATGATACAGGAAATGAGGATGCCATTGGAGGGA
ATGTGAACAAATACATAGTGCTTCCAAATGGATACTCTGGACAGCCCAAGAAAGGACATCTTACCTTTGA
TGCTTGCTTTGAAAGTGTAACCTCGGCCGGGTTGAGCAAGTCTCTGATTTTGTAGTATGATCTGTTCATT
AGGCCGGACACCTGTAATCCACGCTTCCGAGTCTGGTTCAACTTTACTGTTGAAAATGTGAAAGAATTGC
AGAGGGTAATTTTCAACATTGTTAACTTCAGTAAAACCAAGAGTCTTACCAGATGGGATGGCACCAAT
GGTAAATCTACCAGCAGACAAAATGGCAAAGACTACCACAAAAAACGTTTATTACTATCGCTGCCCA
GACCACAGGAAGAACTATGTGATGTCCTTTGCATTCTGTTTTGACCGAGAAGATGATATCTACCAGTTG
CTTACTGCTACCCTTATACATATACTCGCTTCCAGCATTACCTCGACAGCTTACAAAAGAAAAACATGGA
TTATTTCTCCGGGAACAGCTTGGACAGAGTGTGCAACAGCGGCAGCTTGACCTCCTGACGATAACCAGC
CCGAGAAATCTCCGTGAAGGGTCAGAAAAGAAGGTGATATTCATCACAGGGCGAGTCCACCCAGGGGAAA
CGCCATCTTCATTTGTGTGCCAAGGAATCATCGACTTCCTTGAAGTCAGCATCCAATTGCCCGTGTCT
ACGAGAACATTTAGTCTTCAAGATTGCTCCAATGCTCAACCCTGATGGAGTTTACCTGGGCAACTACAGG
TGTTCCCTGATGGGGTTTGACCTGAATCGTCACTGGCTGGATCCCTCTCCATGGGCCCATCCCACCTGC
ATGGAGTGAACAGCTTATTATCAAGATGTACAATGACCCAAAAACAAGCCTGGAGTTCTATATTGACAT
CCACGCTCACTCCACCATGATGAATGGCTTCATGTACGGCAATATCTTTGAGGATGAGGAACGGTTCCAA
AGGCAGTCCATTTTCCAAAACCTCTTTGCCAGAATGCCGAGGACTTCTCCTATACTAGCACATCCTTCA
ACAGGGATGCTGTGAAAGCAGGAACTGGCCGGCCTTCTGGCGGGCTTCTGGACCCTCATCATCTG
CTATACCTAGAGGTTTCTTCTACAGCTACATCATTGGGGTACTACAGCTGCAGTGCCCTACACTGAA
GAAGCCTATATGAACTGGGACGGAACGTGGCAAGAACATTTCTAGATTATTACCGGCTGAACTCCCTGG
TTGAGAAGATAGCAGTCCCATGCCAAGACTTCGATTTAGGTTACAGAGGACACATCTTTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001048189

Insert Size: 1392 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.

RefSeq: [NM_001048189.4](#), [NP_001041654.2](#)

RefSeq Size: 1966 bp

RefSeq ORF: 1392 bp

Locus ID: 78933

UniProt ID: [Q09LZ8](#)

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 deglutamylase 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 (2) uses an alternate splice site in the 3' coding region compared to variant 1. It encodes isoform 2, which is shorter and has a distinct C-terminus, compared to 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.