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Product datasheet for MC228013

Agbl4 (NM_001284190) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Agbl4 (NM_001284190) 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:

>MC228013 representing NM_001284190
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGAGCGGAGCCAGACAGCGCCAGAGGCAGGCAATGATACAGGAAATGAGGATGCCATTGGAGGGA
ATGTGAACAAATACATAGTGCTTCCAAATGGATACTCTGGACAGCCCAAGAAAGGACATCTTACCTTTGA
TGCTTGCTTTGAAAGTGGTAACCTCGGCCGGGTTGAGCAAGTCTCTGATTTTGAGTATGATCTGTTCATT
AGGCCGGACACCTGTAATCCACGCTTCCGAGTCTGGTTCAACTTTACTGTTGAAAATGTGAAAGAATTGC
AGAGGGTAATTTTCAACATTGTTAACTTCAGTAAAACCAAGAGTCTTTACCGAGATGGGATGGCACCAAT
GGTGAAATCTACCAGCAGACCAAAATGGCAAAGACTACCACCAAAAAACGTTTATTACTATCGCTGCCCA
GACCACAGGAAGAACTATGTGATGTCCTTTGCATTCTGTTTTGACCGAGAAGATGATATCTACCAGTTTG
CTTACTGCTACCCTTATACATATACTCGCTTCCAGCATTACCTCGACAGCTTACAAAAGAAAAACATGGA
TTATTTCTTCCGGGAACAGCTTGGACAGAGTGTGCAACAGCGGCAGCTTGACCTCCTGACGATAACCAGC
CCGGAGAATCTCCGTGAAGGGTCAGAAAAGAAGGTGATATTCATCACAGGGCGAGTCCACCCAGGGGAAA
CGCCATCTTCATTTGTGTGCCAAGGAATCATCGACTTCCTTGTAAGTCAGCATCCAATTGCCCGTGTCCT
ACGAGAACATTTAGTCTTCAAGATTGCTCCAATGCTCAACCCTGATGGAGTTTACCTGGGCAACTACAGG
TGTTCCCTGATGGGGTTTGACCTGAATCGTCACTGGCTGGATCCCTCTCCATGGGCCCATCCCACCCTGC
ATGGAGTGAAACAGCTTATTATCAAGATGTACAATGACCCAAAAACAAGCCTGGAGTTCTATATTGACAT
CCACGCTCACTCCACCATGATGAATGGCTTCATGTACGGCAATATCTTTGAGGATGAGGAACGGTTCCAA
AGGCAGTCCATTTTTCCAAAACTCCTTTGCCAGAATGCCGAGGACTTCTCCTATACTAGCACATCCTTCA
ACAGGGATGCTGTGAAAGCAGGAACTGGCCGGCGCTTCCTGGGCGGGCTTCTGGACCACTCATCATACTG
CTATACCCTAGAGGTTTCCTTCTACAGCTACATCATTGGGGGTACTACAGCTGCAGTGCCCTACACTGAA
GAAGCCTATATGAAACTGGGACGGAACGTGGCAAGAACATTTCTAGATTATTACCGGCTGAACTCCCTGG
TTGAGAAGATAGCAGTCCCCATGCCAAGACTTCGGAAAGAAAAAGCCCCTCCTTGCAAGCACCCACCCCC
AAGGGGCTCAACCAGCAACGTCTCCATTGGCAAAGGGGACAAGAAGAACTCACTGAACCACAAAGACCCA
TCAACCCCCTTTTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001284190

Insert Size: 1485 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).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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_001284190.1, NP_001271119.1
RefSeq Size:	1659 bp
RefSeq ORF:	1485 bp
Locus ID:	78933
Cytogenetics:	4 C7-D1
Gene Summary:	Metallocarboxypeptidase 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 AGBL5/CCP5 (PubMed:25103237).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (3) uses an alternate 3' exon structure compared to variant 1. It encodes isoform 3, which is shorter and has a distinct C-terminus, compared to isoform 1.