

Product datasheet for **MC221045**

Agbl5 (NM_174849) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Agbl5 (NM_174849) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Agbl5
Synonyms:	9430057O19Rik; CCP5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC221045 representing NM_174849
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGCTGCGCTGTGGGGATTGCTGTTCAGTTCCTCGCTTTGATTCAGGGAACCTAGCCATGTGGAAA
 AGGTGGAGACTGTGTCTAGTGATGGGGAAGGCGTAGGAGGGTGGCAACAGCCCCGCTAGTGGGTCTGC
 TGCTTCCCTGACTACGAGTTCAACGTGTGGACCCGGCCTGACTGTGCTGAAACGGAATATGAAAATGGC
 AACAGGTCATGGTTCTACTTCAGTGTCCGGGGAGGACTCCAGGAAAGCTTATCAAGATCAACATTATGA
 ACATGAACAAGCAAAGCAAAGTATTCCAGGGCATGGCCCCCTTTGTGCGCACACTGCCTTCCCGGCC
 ACGCTGGGAACGCATTAGAGAGCGGCCACCTTTGAGATGACAGAGACACAGTTTGTGCTATCCTTTGTT
 CACCGTTTCGTAGAGGGCCGGGAGCCACCACCTTCTCGCCTTCTGCTACCCCTTCTCCTACAGTGACT
 GCCAGGATCTGCTGAGCCAGCTAGACCAGCGCTTTTCAGAGAATTACTCTACCCATAGCAGTCTCTGGA
 TAGTATTTATTACCACCGAGAGCTTCTCTGCTATTCTCTGGATGGACTTCGTGTAGATCTACTAACATC
 ACTTCCTGCCATGGGCTTCGAGATGATCGGGAGCCCCGACTAGAGCAGCTATTCCTGATCTCGGCACTC
 CCCGACCATCCGTTTCACAGGCAAAGGATATCTTCTTAAGCAGTAGGGTACACCCTGGAGAGACTCC
 ATCTAGCTTTGTGTTCAATGGCTTTCTGGACTTCATCCTTCGACCTGATGATCCCCGGGCACAACTCTC
 CGTCGACTCTTTGTTTTAAGTTGATCCCATGTTAAACCCTGATGGTGTGGTCCGGGGCCACTACCGCA
 CGGACTCCCGTGGAGTGAATCTGAACCGTCAGTACTTGAAGCCTGATGCCGTCTGCACCCGGCCATCTA
 TGGCGCAAAGCTGTGCTGCTTTATCATACGTGCACTCGAGGCTCAACGCCAAGAGTCCACGAACCAG
 CAACCCACTCTCCATCTCCCTCCGGAAGCCCCTCTCTGACCTCGAGAAAGCCAATAATCTCCACAATG
 AAGCTCACCTCGGGCAGTCACCTGATGGGAAAACCCCTGCGACTTGGCCTGAGACAGAGCCAGCAGAAGA
 GAAGACTGACCCTGTGTGGCTTATGCCACAGCCAATTCCTGAACCTCGAGGAGCCAGCCCCCTGACACCATC
 CCCCCAAAAGAGAGTGGTGTGCTTACTATGTAGACTTGACGGACATGCTTCCAAAAGGGGCTGCTTCA
 TGTATGGCAACAGCTTTAGTGACGAGAGACCCAGGTGAAAAACATGCTATATCCAAAGCTCATCTCCTT
 GAATTCAGCCACTTTGACTTCCAGGGCTGCAATTTCTCAGAGAAGAATGATGCCCCGAGACCGTAGA
 GATGGCCAGTCCAAGAGGGAAGCGCCGTGTCGCAATCTACAAAGCCTCAGGGATAATCCACAGCTACA
 CACTTGAATGCAACTACAACACTGGACGCTCAGTCAACAGCATCCCTGCTGCCTGCCATGACAACGGGCG
 CGCCAGCCCCCTCCCCCTCCGGCTTTCCCTCCAGATACACTGTGGAATATTCGAGCAGGTGGGGCGA
 GCTATGGCCATCGCAGCTCTGGACATGGCAGAGTGAATCCGTGGCCCCGAATTGTGCTGTGCGAACACA
 GCAGCCTACCAACCTGCGAGCCTGGATGCTGAGGCACGTGCGCAACAGCAGAGGGCTGACCAGTGTGG
 GAACATGGGCGCGAGCAAGAAGCGAGGGGCTCGAACCCCTCCCAAAGCAACAACAGCTTGCTGTTTCC
 TGCTCTGAAAATGCTCTGAGCCGGGTTTCGAGTTTTCAGCACCAGCAGAGTACTGGTGGCAGCAGCAGCA
 GCCAACAAAACCTCCACAGATGAAGAAGTCTCCAGCTTCCCTTTTCATGGCAGTGGGACTGCGGGGCT
 ACCAGGCTGGGCTCTAGCACCAAAAGGTGAGCCATCGGGTGTGGGCTGTGAGAGGTAAAGCCAGTC
 TGGGAGCCCCGACGAGGTGTTTGGTTGCTTGGGGCATTGCTGGGGAGAAAGAGCT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_174849

Insert Size: 2160 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:	<ol style="list-style-type: none">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:	<u>NM_174849.3</u> , <u>NP_777274.1</u>
RefSeq Size:	2922 bp
RefSeq ORF:	2160 bp
Locus ID:	231093
UniProt ID:	<u>Q09M02</u>
Cytogenetics:	5 B1
Gene Summary:	<p>Metalloprotease that mediates protein deglutamylation. Specifically catalyzes the deglutamylation of the branching point glutamate side chains generated by post-translational glutamylation in proteins such as tubulins (PubMed:20519502, PubMed:21074048). In contrast, it is not able to act as a long-chain deglutamylation that shortens long polyglutamate chains, a process catalyzed by AGTPBP1/CCP1, AGL2/CCP2, AGL3/CCP3, AGL1/CCP4 and AGL4/CCP6 (PubMed:25103237). Mediates deglutamylation of CGAS, regulating the antiviral activity of CGAS (PubMed:26829768).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (5) has multiple differences, compared to variant 3. The resulting protein (isoform 5), has a shorter and distinct C-terminus when it is compared to isoform 3.</p>