

Product datasheet for **MC222292**

Agbl2 (NM_178755) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Agbl2 (NM_178755) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Agbl2
Synonyms:	4930524K04; A430081C19Rik; CCP2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC222292 representing NM_178755
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAATGTCCTGCTTGGATGGCTTTTCTTTCACAGACTTTCCTGATCCCTATGAGGACTTTATTACC
 ATCACCTCCAGTATTATGGATATTTCAAAGCTCAGAAAAGCAGCCTGCCAACTCAGGCACTCATCAGCG
 CGTTTGGAGGAACAGCCCTCGGTACATGTTGAATGGCTCTTTGGAGAAAAGAGATGATTTTCATCTCGGAC
 AGTTTGGAAAAAGAGATGCTTCTGTGGCTACCTGTTTATCTTCAACTGGGCATGCTCACATAGACGCTG
 TAAACAGAGACTCACTTCTGCTGAGCTCGCCGCTCCTGAGGACCAGGCAGCTGATTTTTGATGAGCTAGA
 TGAAGCAAAGCCACGGCTTCGAGAACCCCGAGAACTCTTCTCATGTTTCTAGCAGAGGGCCGCTGCAG
 GCTCCAAGATGGCCAATCGAATGTGAGGTCATCAAGGAAAACATTCATCACATTGAGTGGTTCCACATC
 AACCAAGATTTCTACCAACCTACAGGAAGCGAGAAGGTGCCAGAGATTGTGGGAGAGGAGCAAGGTAC
 AGTTGTGTACCAGCTAGATTCACTGCCTCAGAAAGGCACCTATTTCACTAGTTCCAGAATAGGAGGCAAA
 CGAGGGACCATCAAGGAACCTTGCTGTCACTGCAAGGGCCGAGCAATACTCTATTGTTTGAGTCAA
 GGTTTGGAGAGCGGAATCTGCAGAAAGCCGTGAGAGTAGGTATCTATGAGTACGAGCTCACCTTGGCGAC
 TGACCTCTACACGGACAAACACACTCAGTGGTTTTACTTCAGAGTTCAGAACACCAGAAAAGACGCTACC
 TATCGCTTACCATCGTCAACTTGCTGAAACCCAGAGCCTTTACGCAGTAGGCATGAAGCCTCTCATGT
 ACTCTCAGCTGGATGCCACCATCTACAACATCGGCTGGAGGAGAGAGGGCCGTGAAATCAAGTACTACAA
 GAACAATGTGGACGACGGCCAGCAGCCCTTATACTGCCTCACCTGGACCCTCAGTTTCTCACGACCAG
 GACACTTGCTTCTCGCACACTTTACCCATACACTTATACTGACTTGAATGCTATCTCTTGTGCTGAGT
 CAAACAACCCATCCAGTCTCAGTCTGCAAGCTCCGAGCCCTATGCAGGAGCCTAGCAGGGAACACTGT
 CTACCTGCTGACCATCAACAACCCATCCAGGACCCTCAAGAGGACGCGCAAGAAAGCTGTGGCTTGG
 AGCGCCCGAGTCCACCCTGGAGAGAGTAACAGCTCCTGGATCATGAACGGCTTTTTGGACTTCATCCTTA
 GCAACTCTCCCGATGCCAGCTCCTCAGGGATATCTTTGTCTTCAAGGTGATTCCCATGTTAAACCCAGA
 TGGCGTGATAGTGGGAACTATCGGTGTTGCTGGCTGGAAGGGACTTGAACAGGCATTATAAAACCGTT
 CTTAAGGACTCCTTCCCTTGCAATTTGGTACACCAAGAACATGATCAAAGGCTTCTGGAAGAAAGAGAGG
 TTCTCTTGTACTGTGATTTCCATGGGCATAGCCGCAAGAACAACATCTTCTGTATGGCTGTCACAGCAA
 CAACCGCAAGCACTGGCTCCATGAGCGTGTCTTCTTTAATGTTGAGCAAGAATGCACCAGACAAGTTC
 TCTTTGACAGCTGTAACCTTAAGTCCAAAAATGCAAAGAAGGAACGGGAAGAGTGGTGTGTGGCGGA
 TGGGCATCATCAACAGCTACCCATGGAGTCTACCTTTGGCGGGTCTACCCTGGGTAGTAAAAGAGACAC
 TCACTTTACCATTGAGGACCTGAAGTCCCTAGGGTATCATGTCTGTGACACTCTTCTGGATTTCTGTGAT
 CCTGACCAAACCAAGTACACACAGTGTCTACAAGAGCTTAAGGAGCTCTACAACAGGAAATCAACAAAA
 AGTTGAATAACTTTGGACAAGATATGGATTTAGAAGGAACTGGAGTGACATTCTTTGTCTGACATTGA
 ATCCAGCAGAGTGGCTCGGACAGCTCCCTCTCCGATGGCCCTCCCATTCGTCTACTGAACATCGTTGCA
 GATGAGCCAAATCAGAAGACGGTGTAAAGAATCAAAAAAGAAGAGACTTCAGACTAGAAAACAGCGGA
 ATGAGCAGTACCAGAAGAGCTACTTGATGCGGGAGTTAAAGTTAACAGAAAACGCCCCAGGAAGGGCGAG
 ATTTGTCTACTCTGCAAAAAGCAGCCTACTTTTTTGAAGTCCAGAGAGTCCAGCCCTCAGTAAGG
 AGAAGTGAACCAAGGCTCAATGAGACACAGTTAAGTGAAGAGAGAAGGGCACCTCCCTGGATCCAC
 CACTGACCAGCCCTAAGAATAAAGAAAGAAATTCAGAGTAAGAAGCCAGGCTTTACAGCATCATGCTCTCC
 AAAGAGAAGCACAACTCCAGCCTAGGGCCAGCTCCAGATGTGAAGCCAACTGGTCTAAGACTAGATAC
 TCTGCCACAAGGAAGGACCATGCCACCATGGCCGTGTACCATCCTTGATATATACACATACCCATAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_178755
Insert Size: 2589 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

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_178755.3](#), [NP_848870.2](#)

RefSeq Size: 3462 bp

RefSeq ORF: 2589 bp

Locus ID: 271813

UniProt ID: [Q8CDK2](#)

Cytogenetics: 2 E1

Gene Summary: Metalloprotease that mediates deglutamylation of target proteins. Catalyzes the deglutamylation of polyglutamate side chains generated by post-translational polyglutamylation in proteins such as tubulins. Also removes gene-encoded polyglutamates from the carboxy-terminus of target proteins such as MYLK. Does not show dephosphatase or deglycosylase activities from the carboxy-terminus of tubulin.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (1) encodes the longer isoform (1).