

## Product datasheet for **MC229388**

### Agbl1 (NM\_001199224) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Agbl1 (NM\_001199224) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Agbl1  
**Synonyms:** Ccp4; D430020F16; EG244071; Nna1-l1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC229388 representing NM\_001199224  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCTGAACAAGAAGGCAGTGGCCTGCAGATGCTGCTGCACACGCTCCAGAACTCCTCTGATAAAGCAT  
 CCACCTGTCCATCCTCCAAGTCTCGGCGATCTGCTTTCTGTTGGCACAGACCGGAGGATTTATTATAT  
 GATCAGCAAAGGTGGCAGCGAGGCCCTTCTGCAGACTCTGGTGGACACAGCAAGGTCATCTTCTCCTGAC  
 TGGGACATCCTCCTGCCTCTCTCAGGCTGCTGGCTAAAGTTGGCCTAAGAGATAAGAAGTTTGGACAGA  
 AGGCACCTAGAATTAGAAGCGCTTGATGTGACCTTGATTTTGGCCAGGAAAAACCTGTCTCACAGCCAGAA  
 CCTCCTGCACTGTCTCTGGGTATTGCGTGTGTTTGCCTCCAGTGTAAACCAGGGAGCCATGCTGGGAATT  
 AATGGAGCGATGGAAGTCTCTCAAGTCTTTCTCCTTACACCCGAAAGCACACCCGGACAATCAGGG  
 CAGCCACTGAAGTTTTGGCAGCATTGCTGAAATCCAAGTCTAACTGCCGAGGGCAGTGAATAGAGGCTA  
 TGCAACAGCTTGCTCAGGCTGCATCAGGACTGGCACAGCCGATGTGACCAATACCTATGTGACGATC  
 CGCCATGGGCTTCTGCTGCCTCAGGCACATTGTCGCCCTCCGCTCTGGCAGGGAGGCCCTCTTGGCAG  
 CCAAGGCATGGAGACTCTTTCAGCATTGCACAGACCTGCCTGGAGAACAAGAACATGGAACCTTGATGAT  
 CTCTGCTGTGATCCAGATCCTCAGACAGTGTACCTGCGAGTCCGCTTCCCCTGGTACAGCCAGCAGT  
 GCCTATACCTTCCAGCCCTGGGAGCACCAGCTCAGAGCTCCCACTCAATCTGACTGAAGAAGATTTTG  
 ACGATGATGGTGTGAAGAGATGGACAAAGACTCAGATGTGGAGGCTGTGAAAGAAGATGATGACTTGGAA  
 AACTGATCTGAGCAAACCTAGTTCTAAGCCTGGTCTTGACCTCCCTGAGGAGGAACCTGCACAGTATGAT  
 GCAATGTGCTCCTGAGCTGTCTGTAGCTTTGAGGAACTGGAACCCAAATGTGGAGATGATTTGAACAACA  
 AAGACTCTGCATGCCAATCACCACCACATCCAAGTGTGCTTCTCAGGCAACACTGTTTTAACCG  
 GGAGCACAGCTCCTGGAGACAAGAAAGAGAAGACACAGTCCACTCGTCCATTCTGCATGTTGAAGACA  
 GGAAGTCCGGTGTACCGTCATCCTCAAACAAGATCTGCAACAAATGTGAATCAAAGCCTACAACAAA  
 ATGGTTTGGAGATCGATTCTTCTGGACATGATACCTCTGACATTAGGCTCCCTTGAACAGGCTGCTTG  
 GGACATGGAAGCAATTTCTGTCCAAGGATAACTGCTTCAATTTCCAATTCTACCAAGCCAGAAGAAAGC  
 ATCGGAGCAGCAGAGAACTTCTGCACACATGCCAAGCACATACCTTTCCAGATCCTCATCTTTATA



TAGCCAATGCTATGAGAACAAGATCTGCTGTGGGATCAAGACAATGGCATTTCCTGATCTCTGGGGCCA  
 CTGTCCACCTCCCCTGCTCAACCCATGCTGGATCGCAAAGTGGGAGTACAGAGGATCAAGATACTTGAG  
 GATATCCGGAGGCTCCTCCATCCAAGTGATGTTATAAACAAAGTTGTCTTCAGTTTAGACGAGCCCAGGC  
 CTTTGCAAGGCAGCATTTCCAATTGCTTAATGTTCCACTCCAAGTTTGAATCAGGAAATCCTCGTAAAGC  
 CATCCAAGTGCCTGAGTTTGGATGACTGTTGGTCAATGCCGACGTGAATAGCTCCCAGCACCAGCAG  
 TGGTTCTACTTCAAGGTGAGCGGCATGAGGGCCGCTGCCCTTATCACTTCAACATCATCAATTGTGAGA  
 AACCCAACAGCCAGTTCAACTATGGGATGCAGCCAACCCTGTATTCTGTGAAAGAGGCTCTTCTGGTGG  
 ACCTGCCTGGATACGGACAGGCTCTGACATTTGTTACTACAAAAATCACTACCGTCAGAATGCAGCTACC  
 ATGGATGGAGCATTGGGGAAGCGCTACTACACCCTTACCTTTGCTGTTACCTTCCCTCATAATGAGGATG  
 CCTGCTATCTGGCCTATCACTATCCCTACACATATTCCACCCTCATGACTCATCTTGAAATTCTGGAAG  
 AAGCATCGACCACAGGAAATCTACTTCCGACATGATGTTCTCTGCCAAACGTTGGGAGGGAATCCATGT  
 CCGCTGGTGACAATCACTGCCTTCTGAACTAACAGCACCGAGCATCTGGAGCAGTCCGCTGTCGTC  
 CATATCAGGTGATCACAGCCGAGTTCACCCAGGAGAGCAATGCCAGCTGGGTGATGAAGGGAACCTT  
 GGAGTTCTAGTCAGCAGTGACCCCGTGGCAAAGCTCCTGAGGGAAAACCTCGTGTCAAGATCATCCCT  
 ATGCTCAACCCAGATGGTGTCAATGGCAATCACAGATGCTCACTGAGAGGCGAGGATCTCAACAGAC  
 AGTGGCTCTCTCCCAAGCTCATCTCCAACCAACCATCTACCATGCTAAAGGTCTCTCCATTACCTAAG  
 CAGTACTGGCCGGGACCTGTGGTCTTCTGTGATTTCCATGGTCACTCCCAAAAGAGAATGATTCCCTT  
 TATGGTTGCAGCATGAAAGAACTTTGTGGCAAGCAGGCTGACTGTGGGTGAATCTGCCCTCTGGAGG  
 ATGTCAGCTACAGGACACTTCCAAAAATCCTGGACAAGCTAGCACCAGCATTCCCATGAACAGCTGCAG  
 CTTTCTGGTTGAAAAATCACGAGCTTCCACTGCCCGAGTGGTGGTGTGGAGAGAGATGGGGGTTCCAGA  
 AGCTATACCATGGAGAGCAGCTACTGTGGCTGCAACCAGGGCCCTATCAGGGTCTACAGTTTGGTACTG  
 GAGAACTAGAAGAAATGGGAGCCATGACTGCTTGGGACTGCTCATCTTGGAACTCAAATCTGTAACCTG  
 TAGCCATAAGCTTTGGCTCGAGCTTCACTCTGCTGACGCGGATGTTCTGGAACACTACCTCCAGCGG  
 TGCAGTAGCAGCAGCAGCAACAGCAGCAACAGAACCTCTGAGGTAGATGATGAGCCATATTGCATGGAGG  
 AGATTGACTACAGTGCTGACAGCAGCTCAGACGAGAACAAGAACTTCACTGAACTGGACCGCAGATCCA  
 GGAGTGTCCCTTGAACAAGGATGAAGAAGAAGAAAAAGGAAGGAACAGGATGGAGAAGAAGATCT  
 GTCACCTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM\_001199224
- Insert Size:** 3369 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\\_001199224.1](#), [NP\\_001186153.1](#)

**RefSeq Size:** 3369 bp

**RefSeq ORF:** 3369 bp

**Locus ID:** 244071

**UniProt ID:** [Q09M05](#)

**Cytogenetics:** 7 D1

**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. 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.[UniProtKB/Swiss-Prot Function]