

Product datasheet for **MC229443**

Agtppb1 (NM_001284221) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Agtppb1 (NM_001284221) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Agtppb1
Synonyms:	1700020N17Rik; 2310001G17Rik; 2900054O13Rik; 4930445M19Rik; 5730402G09Rik; CCP1; nmf243
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC229443 representing NM_001284221 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCAAGCTAAAAGTGGTGGGAGAGAAAAGCCTTACCAATAGTTCTCGGGTTGTGGGACTCCTGGCTC
AGCTGGAGAAGATCAATACGGATTCCACAGAGTCAGATACTGCCAGATATGTTACATCCAAAATCTTCA
TTTGGCTCAAAGTCAAGAAAAACAAGAAGGGAAATGACAACCAAGGTTCTACAGGCATGGAAGTTCTG
TTGTCAACATTGGAGAACACGAAAGATCTTCAGACTGTACTTAATATCCTAAGCATTCTCATTGAGCTGG
TGTCATCGGGTGGGGTGAAGAGCGAGTTTCTTAGTTGCCAAAGGTGGTTCACAATACTGTTGCAACT
GCTTATGAATGCCAGCAAGACTCTCCTCCACATGAGGAGGTGATGGTGCAGACTCACTCCATTCTTGCC
AAGATTGGGCCAAAAGATAAGAAATTTGGAGTGAAGCTCGAGTTAACGGGGCACTGACTGTGACTCTGA
ACTTGGTAAAGCAGCACTTTTCAAGACTACCGCTTGGTTCTTCTTGTCTTCAAGTCTTGGCAGTCTATTC
TACCAACTCTGTGAAGTCAAGTATCTTTAGGTAAAAATGGAGTTGTGGAGTTGATGTTAAAAATCATTGGG
CCATTAGTAAGAAGAAATTCGGGTCTCATGAAGTTGCTTTAGACACTCTTGTGCTATTGCTAAAATCAA
AGACAAACGCCAGGAGAGCGGTGGACAGAGGGTACGTTCAAGTGCTTCTAACCATCTATGTAGATTGGCA
CCGGCATGATAATCGGCATAGAAACATGCTCATTGCGAAGGGGATTCTACAGAGCTTAAAAAGTGCACG
AACATCAAGTTGGGCAGAAAAGCATTATTTGATGCGAATGGGATGAAAATCTGTATAACACTTCTCAAG
AGTGCTTGGCGGTGAGGACTCTTGATCCTTTGTCAACACATCCAGTCTGATAATGAGAAAAATGCTTCCC
CAAAAACCGCCTTCCGCTCCCCACCATTAAAAAGTCTTTCCACTTCCAATTGCCAATTATCCCTGTGACT
GGACCTGTGGCCAGCTCTACAGCTTGGCCGCTGAAGTGGACGATGTGGTGGACGAGAGTACGACAACG
ACGACATTGATTTAGAAGTGGAAAATGAACTCGAGAATGAAGTACCTAGATCAGAGTTTTAAGAATGA
TGATATTGAAACAGATATTAATAAATTAAGACCTCAGCAAGTACCAGGACGAACAATAGAAGAACTAAAA
ATGTACGAGCACCTTTTCCCGAGCTTGTGATGATTTTCAGGACTATGAACTGATCTCTAAGGAACCCA
AACCTTTTGTGTTTGGGGGAAGGCTCGGGGCCCATTTAGTTCACAGCTGGAGAGGAGGTACCTGG
GAATTCAGGGAGCGTAAAGAAAGGAGTGGTAATGAAGGAGAGAGCAAGTCTAAAGGAGAGGAAGCCAAG



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GAAGACCCTAAGGGCCACGACAGGACACTGCCGCAGCAGCTGGGTGGCCAGAGCAGAGTGGCCCCCTCAG
 CCCACAGCTTCAACAATGATCTTGTGAAGGCCCTAGACCGAATCACACTGCAGAAATGTTCCCTTCGCAAGT
 AGCCTCGGGCTTGAACGCAGGAATGAGGAAGGACTTTGGTCTCCCTCTCACTGTCCTCTCATGCACGAAA
 GCTTGTCTCACGTGGCTAAGTGTGGAAGTACTCTCTTTGAAGGGCGGACGGTACATCTTGGGAAGCTGT
 GTTGTACTGGAGTTGAAACGGAAGATGACGAAGACACTGAGTCCCACTCATCAACAGAGCAGGCCCCCTC
 TGGTTGAAGCCTCTGATGGACCAACTGCACGACCCAGACCTCTATTTGAGATTGTGAAAAATCGAAG
 TCCGTTCCAGAATACTCAGAGGTGGCTTATCCTGATTATTTGGTTCACATTCCACCTCCCTTCAAAGAGC
 CTATTTTAGAAAAGCCTTATGGTGTACAAAGGACAAAAATGGCCAAGACATCGAGAGGCTGATACACCA
 GAACGATATCATAGACCGCTGGTGTATGACTTAGACAACCTACCTATACCACTCCAGAAGAAGGAGAT
 ACTTTGAAGTTTAACTCAAAATTCGAATCTGGGAATCTGCGCAAAGTAATTCAAATTAGAAAAAGCGAGT
 ACGACCTTATCCTGAACTCTGATATAAACAGTAACCATTACCACCACTGGTTCTACTTTGAAGTCAGTGG
 GATGCGGCCTGGTGTGGCATATAGGTTCAACATCATCAACTGTGAGAAGTCCAACAGTCAGTTTAATTAT
 GGTATGCAGCCACTTATGTATTCAGTTCAGGAAGCACTAAATGCCAGACCATGGTGGATCCGTATGGGCA
 CTGACATTTGTTACTACAAAAATCACTTCTCACGAAGCTCAGTTGCCGCAGGCGGACAGAAGGGCAAGTC
 TACTACACCATCACCTTACCCTGAACTTCCCGCACAAGGACGATGTCTGCTATTTGCGCTATCACTAT
 CCATACACGTAAGTCTGCAGATGCATCTTCAAAAAATGGAATCGGCACACAATCCTCAACAATCT
 ATTTTCGAAAAGACGTGTTGTGTGAAACCTTGTCTGGAACATCTGTCCTTTGGTGACCATAACAGCAAT
 GCCAGAGTCCAATTACTATGAACATATCTGTCAGTTCAGAACTCGCCCTTATATTTTCTGTCTGCTCGG
 GTCCATCTGGAGAAACCAATGCAAGCTGGGAATGAAAGGAACACTGGAGTACCTCATGAGCAATAGCC
 CGACTGCCAGAGCCTACGGGAGTCTTACATTTTTAAATTTGCCCCATGCTAAATCCAGATGGTGTGAT
 CAATGAAATCACCGTCTCCTAAGTGGAGAGGATTTGAACAGACAGTGGCAAAGTCCAAACCCAGAG
 TTACACCCACGATTTATCATGCCAAGGGGCTGCTGCAGTACCTGGCCGGTGAAGCGCTACCTCTGG
 TTTATTGTGATTACCATGGCCATTCTCGAAAAAGAATGTATTCATGTACGGCTGCAGATCAAAGAGAC
 GGTGTGGCACACCCATGACAACCTCGGCTTCTGTGATATTGTGGAAGACATGGGATACAGGACTTTGCCCT
 AAGATACTGAGCCACATTGCTCCGGCATTGTCATGAGCAGTTGTAGCTTTGGTGGAAAAATCTAAAG
 AATCCACAGCTCGGGTTGTCGTGTGGCGGAAATGGAGTTCAGAGGAGCTACCCATGGAGAGTACTTT
 ATGTGGCTGCGATCAGGGTAGATACAAGGGTTACAGATTGGGACTCGAGAATTGGAAGAGATGGGAGCA
 AAATTTGTGTTGGTTTATTGCGTTTGAACGACTGACTTCTTATTGGAATATAATCTGCCCTCCAACC
 TGCTTGACTTTGAAAATGACTTAATTGAATCAAGCTGAAAGTGACTAGGACACGTGGCAGCTCTGAACT
 CCAGCTTTCCCTGCAGTCCTTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001284221
- Insert Size:** 3525 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_001284221.1](#), [NP_001271150.1](#)

RefSeq Size: 4364 bp

RefSeq ORF: 3525 bp

Locus ID: 67269

UniProt ID: [Q641K1](#)

Cytogenetics: 13

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 AGL5/CCP5. Deglutamylation plays a key role in cerebellar Purkinje cell differentiation, accumulation of tubulin polyglutamylation causing neurodegeneration.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (5) has a shorter 5' UTR and uses an alternate 3'-terminal exon, compared to variant 1. The encoded isoform (4) has a shorter and distinct C-terminus, compared to isoform 1.