

Product datasheet for MC223974

Agtppb1 (NM_023328) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Agtppb1 (NM_023328) 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:	>MC223974 representing NM_023328 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGAGCAAGCTAAAAGTGGTGGGAGAGAAAAGCCTTACCAATAGTTCTCGGGTTGTGGGACTCCTGGCTC
AGCTGGAGAAGATCAATACGGATTCCACAGAGTCAGATACTGCCAGATATGTTACATCCAAAATCTTCA
TTTGGCTCAAAGTCAAGAAAAACAAGAAGGAAATGACAACCAAGTTCTACAGGCATGGAAGTTCTG
TTGTCAACATTGGAGAACACGAAAGATCTTCAGACTGTACTTAATATCCTAAGCATTCTCATTGAGCTGG
TGTCATCGGGTGGGGTGAAGAGCGAGTTTCTTAGTTGCCAAAGTGGTTCACAATACTGTTGCAACT
GCTTATGAATGCCAGCAAGACTCTCCTCCACATGAGGAGGTGATGGTGCAGACTCACTCCATTCTTGCC
AAGATTGGGCCAAAAGATAAGAAATTTGGAGTGAAGCTCGAGTTAACGGGGCACTGACTGTGACTCTGA
ACTTGGTAAAGCAGCACTTTCAGAACTACCGCTTGGTTCTTCTTGTCTTCAGCTCTTGCGAGTCTATTC
TACCAACTCTGTGAAGTCAAGTATCTTTAGGTAAAAATGGAGTTGTGGAGTTGATGTTAAAAATCATTGGG
CCATTAGTAAGAAGAAATTCGGGTCTCATGAAGTTGCTTTAGACACTCTTGCTGCATTGCTAAAATCAA
AGACAAACGCCAGGAGAGCGGTGGACAGAGGGTACGTTCAAGTGCTTCTAACCATCTATGTAGATTGGCA
CCGGCATGATAATCGGCATAGAAACATGCTCATTGCGAAGGGGATTCTACAGAGCTTAAAAAGTGCACG
AACATCAAGTTGGGCAGAAAAGCATTATTTAGTGCGAATGGGATGAAAATCTGTATAACACTTTCAAG
AGTGCTTGGCGGTGAGGACTCTTGATCCTTTGTCAACACATCCAGTCTGATAATGAGAAAAATGCTTCCC
CAAAAACCGCCTTCCGCTCCCCACCATTAAAAAGTCTTTCCACTTCCAATTGCCAATTATCCCTGTGACT
GGACCTGTGGCCAGCTCTACAGCTTGGCCCTGAAGTGGACGATGTGGTGGACGAGAGTACGACAACG
ACGACATTGATTTAGAAGTGGAAAATGAACTCGAGAATGAAGTACCTAGATCAGAGTTTTAAGAATGA
TGATATTGAAACAGATATTAATAAATTAAGACCTCAGCAAGTACCAGGACGAACAATAGAAGAACTAAAA
ATGTACGAGCACCTTTTCCCGAGCTTGTGTGATGATTTTCAGGACTATGAACTGATCTCTAAGGAACCCA
AACCTTTTGTGTTTGGGGGAAGGCTCGGGGCCCATTTAGTTCACAGCTGGAGAGGAGGTACCTGG
GAATTCAGGGAGCGTAAAGAAAGGAGTGGTAATGAAGGAGAGAGCAAGTCTAAAGGAGAGGAAGCCAAG



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GAAGACCCTAAGGGCCACGACAGGACACTGCCGACAGCAGCTGGGTGGCCAGAGCAGAGTGGCCCCCTCAG
 CCCACAGCTTCAACAATGATCTTGTGAAGGCCCTAGACCGAATCACACTGCAGAAATGTTCCCTTCGCAAGT
 AGCCTCGGGCTTGAACGCAGGAATGAGGAAGGACTTTGGTCTCCCTCTCACTGTCCTCTCATGCACGAAA
 GCTTGTCTCACGTGGCTAAGTGTGGAAGTACTCTTTGAAGGGCGGACGGTACATCTTGGGAAGCTGT
 GTTGTACTGGAGTTGAAACGGAAGATGACGAAGACACTGAGTCCCACTCATCAACAGAGCAGGCCCCCTC
 TGTGTAAGCCTCTGATGGACCAACTGCACGACCCAGACCTCTATATTGAGATTGTGAAAAATACGAAG
 TCCGTTCCAGAAATACTCAGAGGTGGCTTACTCTGATTATTTGGTTCACATTCCACCTCCCTTCAAAGAGC
 CTATTTTAGAAAAGCCTTATGGTGTACAAAGGACAAAAATGGCCAAGACATCGAGAGGCTGATACACCA
 GAACGATATCATAGACCGCTGGTGTATGACTTAGACAACCTACTTATACCACTCCAGAAGAAGGAGAT
 ACTTTGAAGTTTAACTCAAAATTCGAATCTGGGAATCTGCGCAAAGTAATTCAAATTAGAAAAAGCGAGT
 ACGACCTTATCTGAACTCTGATATAAACAGTAACCATTACCACCAGTGGTTCTACTTTGAAGTCAGTGG
 GATGCGGCTGGTGTGGCATATAGGTTCAACATCATCAACTGTGAGAAGTCCAACAGTCAGTTTAATTAT
 GGTATGCAGCCACTTATGTATTCAGTTCAGGAAGCACTAAATGCCAGACCATGGTGGATCCGTATGGGCA
 CTGACATTTGTTACTACAAAAATCACTTCTCACGAAGCTCAGTTGCCGACGGCGGACAGAAGGGCAAGTC
 TACTACACCATCACCTTACCCTGAACCTCCCGCACAAGGACGATGTCTGCTATTTGCGCTATCACTAT
 CCATACACGTAAGTCTGACGATGATCTTCAAAAAATGGAATCGGCACACAATCCTCAACAATCT
 ATTTTCGAAAAGACGTGTTGTGTGAAACCTTGTCTGAAAACATCTGTCCTTTGGTGACCATAACAGCAAT
 GCCAGAGTCCAATTACTATGAACATATCTGTCAGTTCAGAACTCGCCCTTATATTTTCTGTCTGCTCGG
 GTCCATCTGGAGAAACCAATGCAAGCTGGGTAATGAAAGGAACACTGGAGTACCTCATGAGCAATAGCC
 CGACTGCCAGAGCCTACGGGAGTCTTACATTTTTAAATTTGCCCCATGCTAAATCCAGATGGTGTGAT
 CAATGAAATCACCGTCTCCTTAAGTGGAGAGGATTTGAACAGACAGTGGCAAAGTCCAAACCCAGAG
 TTACACCCACGATTTATCATGCCAAGGGGCTGCTGAGTACCTGGCCGCGGTGAAGCGCTACCTCTGG
 TTTATTGTGATTACCATGGCCATTCTCGAAAAAGAATGTATTCATGTACGGCTGCAGCATCAAAGAGAC
 GGTGTGGCACACCCATGACAACCTCGGCTTCTGTGATATTGTGGAAGACATGGGATACAGGACTTTGCCT
 AAGATACTGAGCCACATTGCTCCGGCATTGTCATGAGCAGTTGTAGCTTTGGTGGAAAAATCTAAAG
 AATCCACAGCTCGGGTTGTCGTGTGGCGGAAATGGAGTTCAGAGGAGCTACCCATGGAGAGTACTTT
 ATGTGGCTGCGATCAGGGTAGATACAAGGGTTACAGATTGGGACTCGAGAATTGGAAGAGATGGGAGCA
 AAATTTGTGTTGGTTTATTGCGTTTGAACGACTGACTTCTTCAATGGAATATAATCTGCCCTCCAACC
 TGCTTGACTTTGAAAATGACTTAATTGAATCAAGCTGTAAGTACTAGCCCCACCATTACGTTTTGGA
 TGAAGATGAACCTCGGTTCTTGAAGAAGTTGATTACAGTGCAGAAAGCAATGATGAGTTAGATGTTGAA
 TTAGCGGAGAACACAGGTGATTATGAGCCTTCTGCCCAAGAAGAAGCCCTTCTGACTCTGAGGTATCAA
 GAACACACCTGATTTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-MluI

ACCN:

NM_023328

Insert Size:

3657 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:

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_023328.3](#), [NP_075817.2](#)

RefSeq Size: 4417 bp

RefSeq ORF: 3657 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 AGBL5/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 (1) encodes the longest isoform (1).