

## Product datasheet for **MC228936**

### **Agtppb1 (NM\_001284218) Mouse Untagged Clone**

#### **Product data:**

<b>Product Type:</b>	Expression Plasmids
<b>Product Name:</b>	Agtppb1 (NM_001284218) Mouse Untagged Clone
<b>Tag:</b>	Tag Free
<b>Symbol:</b>	Agtppb1
<b>Synonyms:</b>	1700020N17Rik; 2310001G17Rik; 2900054O13Rik; 4930445M19Rik; 5730402G09Rik; CCP1; nmf243
<b>Vector:</b>	pCMV6-Entry (PS100001)
<b>E. coli Selection:</b>	Kanamycin (25 ug/mL)
<b>Cell Selection:</b>	Neomycin



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**Fully Sequenced ORF:** >MC228936 representing NM\_001284218  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGCAAGCTAAAAGTGGTGGGAGAGAAAAGCCTTACCAATAGTTCTCGGGTTGTGGGACTCCTGGCTC  
 AGCTGGAGAAGATCAATACGGATTCCACAGAGTCAGATACTGCCAGATATGTTACATCCAAAATTCTTCA  
 TTTGGCTCAAAGTCAAGAAAAACAAGAAGGAAATGACAACCAAAGTTCTACAGGCATGGAAGTTCTG  
 TTGTCAACATTGGAGAACACGAAAGATCTTCAGACTGTACTTAATATCCTAAGCATTCTCATTGAGCTGG  
 TGTCAATCGGGTGGGGTGAAGAGCGAGTTTCTTAGTTGCCAAAGGTGGTTCACAAACTGTTGCAACT  
 GCTTATGAATGCCAGCAAAGACTCTCCTCCACATGAGGAGGTGATGGTGCAGACTCACTCCATTCTTGCC  
 AAGATTGGGCCAAAAGATAAGAAATTTGGAGTGAAGCTCGAGTTAACGGGGCACTGACTGTGACTCTGA  
 ACTTGGTAAAGCAGCACTTTCAGAACTACCGCTTGGTTCTTCTTGTCTTCAGCTCTTGGCAGTCTATTC  
 TACCAACTCTGTGAAGTCACTATCTTTAGGTAAAATGGAGTTGTGGAGTTGATGTTTAAAAATCATTGGG  
 CCATTCAGTAAGAAGAATTCGGGTCTCATGAAGTTGCTTTAGACTCTTGGCTGCATTGCTAAAAATCAA  
 AGACAAACGCCAGGAGAGCGGTGGACAGAGGACGTTCAAGTGCTTCTAACCATCTATGTAGATTGGCA  
 CCGCATGATAATCGGCATAGAAACATGCTCATTCCGGAAGGGGATTCTACAGAGCTTAAAAAGTGTACAG  
 AACATCAAGTTGGGCAGAAAAGCATTATTATGATGCGAATGGGATGAAAATTTCTGTATAACACTTCTCAAG  
 AGTGCTTGGCGGTGAGGACTCTTGTATCCTTGTCAACACATCCAGTCTGATAATGAGAAAATGCTTCCC  
 CAAAACCGCCTCCGCTCCCCACATTAAGTTCTTTCCACTTCCAATTGCCAATTATCCCTGTGACT  
 GGACCTGTGGCCAGCTCTACAGCTTCCGCTGAAGTGGACGATGTGGTGGACGAGAGTACGACACAACG  
 ACGACATTTGATTTAGAAGTGGAAAATGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA  
 TGATATTGAAACAGATATTAATAAATTAAGACCTCAGCAAGTACCAGGACGAACAATAGAAGAATAAAA  
 ATGTACGAGCACCTTTTCCCGAGCTTGTGATGATTTTTCAGGACTATGAACTGATCTCTAAGGAACCCA  
 AACCTTTTGTGTTTGGGGGAAGGCTCGGGGCCCATTTAGTTCCACAGCTGGAGAGGAGGTACCTGG  
 GAATTCAGGGAGCGTAAAGAAAGGAGTGGTAATGAAGGAGAGAGCAAGTCTAAAGGAGAGGAAGCCAAG  
 GAAGACCTAAGGGCCACGACAGGACACTGCCGACGAGCTGGTGGCCAGAGCAGAGTGGCCCCCTCAG  
 CCCACAGCTTCAACAATGATCTTGTGAAGGCCCTAGACCGAATCACACTGCAGAATGTTCTTCCGAAGT  
 AGCCTCGGGCTTGAACGCAGGAATGAGGAAGGACTTTGGTCTCCCTCTCACTGTCCTCTCATGCACGAAA  
 GCTTGTCTCACGTGGCTAAGTGTGGAAGTACTCTTTTGAAGGGCGGACGGTACATCTTGGGAAGCTGT  
 GTTGTACTGGAGTTGAAACGGAAGATGACGAAGCACTGAGTCCCACTCATCAACAGAGCAGGCCCCCTC  
 TGTGTAAGCCTCTGATGGACCAACTGCACGACCCAGACCTCTATATTGAGATTGTGAAAAATACGAAG  
 TCCGTTCCAGAATACTCAGAGGTGGCTTATCCTGATTATTTTGGTACATTCCACCTCCCTTCAAAGAGC  
 CTATTTTAGAAAGGCCTTATGGTGTACAAAGGACAAAAATGGCCAAAGACATCGAGAGGCTGATACACCA  
 GAACGATATCATAGACCGCGTGGTGTATGACTTAGACAACCCTACCTATACCACTCCAGAAGAAGGAGAT  
 ACTTTGAAGTTTAACTCAAAATTCGAATCTGGGAATCTGCGCAAAGTAATTCAAATTAGAAAAAGCGAGT  
 ACGACCTTATCCTGAAGTCTGATATAAACAGTAACCATTACCACAGTGGTCTACTTTGAAGTCAAGTGG  
 GATGCGGCCTGGTGTGGCATATAGTTTCAACATCATCAACTGTGAGAAGTCCAACAGTCAAGTTAATTAT  
 GATGGAGAAGAAACATGTTACAAAATGATAGTGGTCTCAACTATTTGTTGCAAAGACTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul  
**ACCN:** NM\_001284218  
**Insert Size:** 2370 bp

<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001284218.1, NP_001271147.1</u>
<b>RefSeq Size:</b>	3065 bp
<b>RefSeq ORF:</b>	2370 bp
<b>Locus ID:</b>	67269
<b>UniProt ID:</b>	<u>Q641K1</u>
<b>Cytogenetics:</b>	13
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR, lacks several exons, and uses an alternate 3'-terminal exon, compared to variant 1. This results in a novel 3' coding region and 3' UTR, compared to variant 1. The encoded isoform (2) has a shorter and distinct C-terminus, compared to isoform 1. Both variants 2 and 3 encode the same isoform.</p>