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Product datasheet for MC229211

Agtpbp1 (NM_001284219) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Agtpbp1 (NM_001284219) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Agtpbp1
Synonyms:	1700020N17Rik; 2310001G17Rik; 2900054O13Rik; 4930445M19Rik; 5730402G09Rik; CCP1; nmf243
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

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Fully Sequenced ORF:

>MC229211 representing NM_001284219
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTCATTCGGAAGGGGATTCTACAGAGCTTAAAAAGTGTCACGAACATCAAGTTGGGCAGAAAAGCAT
TTATTGATGCGAATGGGATGAAAATTCTGTATAACACTTCTCAAGAGTGCTTGGCGGTCAGGACTCTTGA
TCCTCTTGTCAACACATCCAGTCTGATAATGAGAAAATGCTTCCCCAAAAACCGCCTTCCGCTCCCCACC
ATTAAAAGTTCTTTCCACTTCCAATTGCCAATTATCCCTGTGACTGGACCTGTGGCCCAGCTCTACAGCT
TGCCGCCTGAAGTGGACGATGTGGTGGACGAGAGTGACGACAACGACGACATTGATTTAGAAGTGGAAAA
TGAACTCGAGAATGAAGATGACCTAGATCAGAGTTTTAAGAATGATGATATTGAAACAGATATTAATAAA
TTAAGACCTCAGCAAGTACCAGGACGAACAATAGAAGAACTAAAAATGTACGAGCACCTTTTCCCCGAGC
TTGTTGATGATTTTCAGGACTATGAACTGATCTCTAAGGAACCCAAACCTTTTGTGTTTGAGGGGAAGGC
TCGGGGCCCCATTGTAGTTCCCACAGCTGGAGAGGAGGTACCTGGGAATTCAGGGAGCGTAAAGAAAGGA
GTGGTAATGAAGGAGAGAGCAAGTCCTAAAGGAGAGGAAGCCAAGGAAGACCCTAAGGGCCACGACAGGA
CACTGCCGCAGCAGCTGGGTGGCCAGAGCAGAGTGGCCCCCTCAGCCCACAGCTTCAACAATGATCTTGT
GAAGGCCCTAGACCGAATCACACTGCAGAATGTTCCTTCGCAAGTAGCCTCGGGCTTGAACGCAGGAATG
AGGAAGGACTTTGGTCTCCCTCTCACTGTCCTCTCATGCACGAAAGCTTGTCCTCACGTGGCTAAGTGTG
GAAGTACTCTCTTTGAAGGGCGGACGGTACATCTTGGGAAGCTGTGTTGTACTGGAGTTGAAACGGAAGA
TGACGAAGACACTGAGTCCCACTCATCAACAGAGCAGGCCCCCTCTGTTGAAGCCTCTGATGGACCAACA
CTGCACGACCCAGACCTCTATATTGAGATTGTGAAAAATACGAAGTCCGTTCCAGAATACTCAGAGGTGG
CTTATCCTGATTATTTTGGTCACATTCCACCTCCCTTCAAAGAGCCTATTTTAGAAAGGCCTTATGGTGT
ACAAAGGACAAAAATTGCCCAAGACATCGAGAGGCTGATACACCAGAACGATATCATAGACCGCGTGGTG
TATGACTTAGACAACCCTACCTATACCACTCCAGAAGAAGGAGATACTTTGAAGTTTAACTCAAAATTCG
AATCTGGGAATCTGCGCAAAGTAATTCAAATTAGAAAAAGCGAGTACGACCTTATCCTGAACTCTGATAT
AAACAGTAACCATTACCACCAGTGGTTCTACTTTGAAGTCAGTGGGATGCGGCCTGGTGTGGCATATAGG
TTCAACATCATCAACTGTGAGAAGTCCAACAGTCAGTTTAATTATGGTATGCAGCCACTTATGTATTCAG
TTCAGGAAGCACTAAATGCCAGACCATGGTGGATCCGTATGGGCACTGACATTTGTTACTACAAAAATCA
CTTCTCACGAAGCTCAGTTGCCGCAGGCGGACAGAAGGGCAAGTCCTACTACACCATCACCTTCACCGTG
AACTTCCCGCACAAGGACGATGTCTGCTATTTCGCCTATCACTATCCATACACGTACTCGACTCTGCAGA
TGCATCTTCAAAAATTGGAATCGGCACACAATCCTCAACAAATCTATTTTCGAAAAGACGTGTTGTGTGA
AACCTTGTCTGGAAACATCTGTCCTTTGGTGACCATAACAGCAATGCCAGAGTCCAATTACTATGAACAT
ATCTGTCAGTTCAGAACTCGCCCTTATATTTTCTTGTCTGCTCGGGTCCATCCTGGAGAAACCAATGCAA
GCTGGGTAATGAAAGGAACACTGGAGTACCTCATGAGCAATAGCCCGACTGCCCAGAGCCTACGGGAGTC
TTACATTTTTAAAATTGTCCCCATGCTAAATCCAGATGGTGTCATCAATGGAAATCACCGCTGCTCCTTA
AGTGGAGAGGATTTGAACAGACAGTGGCAAAGTCCAAACCCAGAGTTACACCCCACGATTTATCATGCCA
AGGGGCTGCTGCAGTACCTGGCCGCGGTGAAGCGCCTACCTCTGGTTTATTGTGATTACCATGGCCATTC
TCGAAAAAAGAATGTATTCATGTACGGCTGCAGCATCAAAGAGACGGTGTGGCACACCCATGACAACTCG
GCTTCCTGTGATATTGTGGAAGACATGGGATACAGGACTTTGCCTAAGATACTGAGCCACATTGCTCCGG
CATTTTGCATGAGCAGTTGTAGCTTTGTGGTGGAAAAATCTAAAGAATCCACAGCTCGGGTTGTCGTGTG
GCGGGAAATTGGAGTTCAGAGGAGCTACACCATGGAGAGTACTTTATGTGGCTGCGATCAGGGTAGATAC
AAGGGTTTACAGATTGGGACTCGAGAATTGGAAGAGATGGGAGCAAAATTTTGTGTTGGTTTATTGCGTT
TGAAACGACTGACTTCTTCATTGGAATATAATCTGCCCTCCAACCTGCTTGACTTTGAAAATGACTTAAT
TGAATCAAGCTGTAAAGTGACTAGCCCCACCACTTACGTTTTGGATGAAGATGAACCTCGGTTCCTTGAA
GAAGTTGATTACAGTGCAGAAAGCAATGATGAGTTAGATGTTGAATTAGCGGAGAACACAGGTGATTATG
AGCCTTCTGCCCAAGAAGAAGCCCTTTCTGACTCTGAGGTATCAAGAACACACCTGATTTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN:	NM_001284219
Insert Size:	2862 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_001284219.1, NP_001271148.1
RefSeq Size:	4488 bp
RefSeq ORF:	2862 bp
Locus ID:	67269
UniProt ID:	Q641K1
Cytogenetics:	13
Gene Summary:	Metallocarboxypeptidase 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 (4) differs in its 5' UTR and initiates translation at a downstream start codon, compared to variant 1. The encoded isoform (3) has a shorter N-terminus, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.