

Product datasheet for **MR231422**

Agtppb1 (NM_001284219) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Agtppb1 (NM_001284219) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Agtppb1
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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ORF Nucleotide Sequence:

>MR231422 representing NM_001284219
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTCATTCCGAAGGGGATTCTACAGAGCTTAAAAAGTGCACGAACATCAAGTTGGGCAGAAAAGCAT
 TTATTGATGCGAATGGGATGAAAATTCTGTATAACACTTCTCAAGAGTGCTTGGCGGTGAGGACTCTTGA
 TCCTCTTGTAACACATCCAGTCTGATAATGAGAAAATGCTTCCCCAAAAACCGCTTCCGCTCCCCACC
 ATTAAAAGTTCTTCCACTTCCAATTGCCAATTATCCCTGTGACTGGACCTGTGGCCAGCTCTACAGCT
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 AGGAAGGACTTTGGTCTCCCTCTCACTGTCCTCTCATGCACGAAAGCTTGTCTCACGTGGCTAAGTGTG
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Protein Sequence: >MR231422 representing NM_001284219
 Red=Cloning site Green=Tags(s)

MLIRKGILQSLKSVTNIKLGRKAFIDANGMKILYNTSQECLAVRTLDPVNTSSLIMRKCFFKNRPLPT
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 LRPQQVPGRITIEELKMYEHLFPELVDDFQDYELISKEPKPFVFEKGARGPIVVPTAGEEVPNGSGSVKKG
 VVMKERASPKGEEAKEDPKGHDRTLPPQLGGQSRVAPSAHSFNNDLVKALDRITLQNVPSQVASGLNAGM
 RKDFGLPLTVLSCTKACPHVAKCGSTLFEGRTVHLGKLCCTGVETEDDEDETESHSSTEQAPSVEASDGPT
 LHDPDLYIEIVKNTKSVPEYSEVAYPDYFGHIPPPFKEPILERPYPVQRTKIAQDIERLIHQNDIIDRVV
 YDLDNPTYTTPEEGDTLKFNSKFESGNLRKVIQIRKSEYDLILNSDINSNHYHQWFYFEVSGMRPGVAYR
 FNIINCEKSNSQFNMGQPLMYSVQEALNARPWWIRMGTDICYYKNHFSRSSVAAGGQKGSYYTITFTV
 NFPHKDDVCYFAYHYPYTYSTLQMLQKLESAHNPQQIYFRKDVLCETLSGNICPLVTITAMPESNYEH
 ICQFRTRPYIFLSARVHPGETNASWVMKGTLEYLMSNSPTAQLRESYIFKIVPMLNPDGVINGNHRCSL
 SGEDLNQWQSPNELHPTIYHAKGLLQYLAAVKRLPLVYCDYHGHSRKKNVFMYGCSIKETVWHHDNS
 ASCDIVEDMGYRTLPKILSHIAPAFMSSCSFVVEKSKESTARVVVWREIGVQRSYTMESTLCCGDCQGRY
 KGLQIGTRELEEMGAKFCVGLLRKRLTSSLEYNLPSNLLDFENDLIESSCKVTSPTTYVLDEDEPRFLE
 EVDYSAESNDELDELVAENTGDYEPSAQEALSDSEVSRTHLI

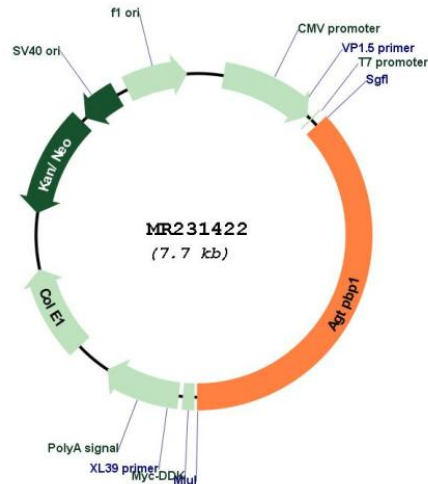
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001284219

ORF Size: 2859 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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

MW: 108.4 kDa

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 AGL5/CCP5. Deglutamylation plays a key role in cerebellar Purkinje cell differentiation, accumulation of tubulin polyglutamylation causing neurodegeneration.[UniProtKB/Swiss-Prot Function]