

Product datasheet for **MG225354**

Agtppb1 (NM_001048008) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Agtppb1 (NM_001048008) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Agtppb1
Synonyms:	1700020N17Rik; 2310001G17Rik; 2900054O13Rik; 4930445M19Rik; 5730402G09Rik; CCP1; nmf243
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG225354 representing NM_001048008
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGCAAGCTAAAAGTGGTGGGAGAGAAAAGCCTTACCAATAGTTCTCGGGTTGTGGGACTCCTGGCTC
 AGCTGGAGAAGATCAATACGGATTCCACAGAGTACAGATACTGCCAGATATGTTACATCCAAAATTCTTCA
 TTTGGCTCAAAGTCAAGAAAAACAAGAAGGAAATGACAACCAAAGTTCTACAGGCATGGAAGTTCTG
 TTGTCAACATTGGAGAACACGAAAGATCTTCAGACTGTACTTAATATCCTAAGCATTCTCATTGAGCTGG
 TGTTCATCGGGTGGGGTGAAGAGCGAGTTTCTTAGTTGCCAAAGGTGGTTCACAAACTGTGCAACT
 GCTTATGAATGCCAGCAAAGACTCTCCTCCACATGAGGAGGTGATGGTGCAGACTCACTCCATTCTTGCC
 AAGATTGGGCCAAAAGATAAGAAATTTGGAGTGAAGCTCGAGTTAACGGGGCACTGACTGTGACTCTGA
 ACTTGGTAAAGCAGCACTTTCAGAACTACCGCTTGGTTCTTCTTGTCTTCAGCTCTTGGCAGTCTATTC
 TACCAACTCTGTGAAGTCACTATCTTTAGGTAAAATGGAGTTGTGGAGTTGATGTTTAAAATCATTGGG
 CCATTCAGTAAGAAGAATTCGGGTCTCATGAAGTTGCTTTAGACTCTTGGCTGCATTGCTAAAATCAA
 AGACAAACGCCAGGAGAGCGGTGGACAGAGGGTACGTTCAAGTGCTTCTAACCATCTATGTAGATTGGCA
 CCGCATGATAATCGGCATAGAAACATGCTCATTCCGGAAGGGGATTCTACAGAGCTTAAAAAGTGTACAG
 AACATCAAGTTGGGCAGAAAAGCATTATTATGATGCGAATGGGATGAAAATCTGTATAACACTTCTCAAG
 AGTGCTTGGCGGTGAGGACTCTTGATCCTCTTGTCAACACATCCAGTCTGATAATGAGAAAATGCTTCCC
 CAAAACCGCCTCCCGTCCCCACCATTAAGTTCTTTCCACTTCCAATTGCCAATTATCCCTGTGACT
 GGACCTGTGGCCAGCTCTACAGCTTCCCGCTGAAGTGGACGATGTGGTGGACGAGAGTACGACAACG
 ACGACATTTGATTTAGAAGTGGAAAATGAACTCGAGAATGAAGATGACCTAGATCAGAGTTTTAAGAATGA
 TGATATTGAAACAGATATTAATAAATTAAGACCTCAGCAAGTACCAGGACGAACAATAGAAGAATAAAA
 ATGTACGAGCACCTTTTCCCGAGCTTGTGATGATTTTCAGGACTATGAACTGATCTCTAAGGAACCCA
 AACCTTTTGTGTTTGGGGGAAGGCTCGGGGCCCATTTAGTTCCACAGCTGGAGAGGAGGTACCTGG
 GAATTCAGGGAGCGTAAAGAAAGGAGTGGTAATGAAGGAGAGAGCAAGTCTAAAGGAGAGGAAGCCAAG
 GAAGACCCTAAGGGCCACGACAGGACACTGCCGACGAGCTGGGTGGCCAGAGCAGAGTGGCCCCCTCAG
 CCCACAGCTTCAACAATGATCTTGTGAAGGCCCTAGACCGAATCACACTGCAGAATGTTCTTCCGAAGT
 AGCCTCGGGCTTGAACGCAGGAATGAGGAAGGACTTTGGTCTCCCTCTCACTGTCCTCTCATGCACGAAA
 GCTTGTCTCACGTGGCTAAGTGTGGAAGTACTCTTTTGAAGGGCGGACGGTACATCTTGGGAAGCTGT
 GTTGTACTGGAGTTGAAACGGAAGATGACGAAGACACTGAGTCCCACTCATCAACAGAGCAGGCCCCCTC
 TGTGTAAGCCTCTGATGGACCAACTGCACGACCCAGACCTCTATATTGAGATTGTGAAAAATACGAAG
 TCCGTTCCAGAATACTCAGAGGTGGCTTATCCTGATTATTTGGTACATTCCACCTCCCTTCAAAGAGC
 CTATTTTAGAAAGGCCTTATGGTGTACAAAGGACAAAAATGGCCAAGACATCGAGAGGCTGATACACCA
 GAACGATATCATAGACCGCGTGGTGTATGACTTAGACAACCTACCTATACCACTCCAGAAGAAGGAGAT
 ACTTTGAAGTTTAACTCAAATTCGAATCTGGGAATCTGCGCAAAGTAATTCAAATTAGAAAAAGCGAGT
 ACGACCTTATCCTGAAGTCTGATATAAACAGTAACCATACCACAGTGGTTCTACTTTGAAGTCAAGTGG
 GATGCGGCCTGGTGTGGCATATAGGTTCAACATCATCAACTGTGAGAAGTCCAACAGTCAAGTTAATTAT
 GATGGAGAAGAAACATGTTACAAAATGATAGTGGTCTCAACTATTTGTTGCAAAGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG225354 representing NM_001048008
Red=Cloning site Green=Tags(s)

MSKLVVGEKSLTNSRVVGLLAQLEKINTDSTESDTARYVTSKILHLAQSQEKTREMTTKGSTGMEVL
LSTLENTKDLQTVLNILSILIELVSSGGRRASFLVAKGGSQILLQLLMNASKDSPHEEVMVQTHSILA
KIGPKDKKFGVKARVNGALTVTLNLVKQHFQNYRLVLPCLQLLRVYSTNSVNSVSLGKNGVVLMFKIIG
PFSKNSGLMKVALDTLAALLKSKTNARRAVDRGYVQVLLTIYVDWHRHDNRHRNMLIRKGILQSLKSVT
NIKLGRKAFIDANGMKILYNTSQECLAVRTLDPVNTSSLI MRKCFPKNRLPLPTIKSSFHFQLPIIPVT
GPVAQLYSLPPEVDDVVDESDDNDDIDLEVENELEDLQSFKNDDIETDINKLRPQQVPGRTIEELK
MYEHLFPELVDDFQDYELISKEPKPFVFEKGARGPIVVPTAGEEVPNGSGSVKKGVMKERASPKGEEAK
EDPKGHDRTLPPQLGGQSRVAPSAHSFNNDLVKALDRITLQNVPSQVASGLNAGMRKDFGLPLTVLSCTK
ACPHVAKCGSTLFEGRVHLGKLCCTGVETEDDEDTEHSSTEQAPSVEASDGPTLHDPDLYIEIVKNTK
SVPEYSEVAYPDYFGHIPPFFKEPILERPVGVRKIAQDIERLIHQNDIIDRVVYDLNPTTYTTPEEGD
TLKFNSKFESGNLRKVIQIRKSEYDLILNSDINSNHYHQWFYFEVSGMRPGVAYRFNIINCEKSNSQFN
DGEETCYKMIVSTICCKD

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001048008

ORF Size: 2367 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_001048008.2](#), [NP_001041473.1](#)

RefSeq Size: 2932 bp

RefSeq ORF: 2370 bp

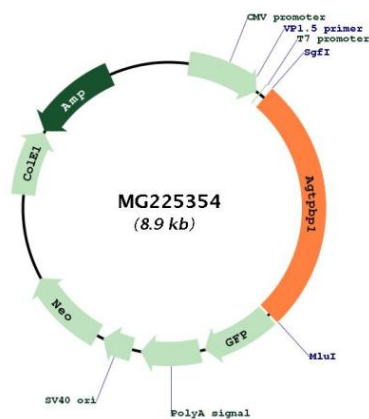
Locus ID: 67269

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]

Product images:



Circular map for MG225354