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# Product datasheet for MG224201

## Aga (NM_001005847) Mouse Tagged ORF Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | Aga (NM_001005847) Mouse Tagged ORF Clone |
| **Tag:** | TurboGFP |
| **Symbol:** | Aga |
| **Synonyms:** | AW060726 |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-AC-GFP (PS100010) |
| **E. coli Selection:** | Ampicillin (100 ug/mL) |

**ORF Nucleotide Sequence:**

>MG224201 representing NM_001005847
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGCGGAAGTCGAATCTGTCTCTGCTTCTCCTACTGCTGGTCCTGGGCATGCCCCTGGTGCGGGGCT
CCAGCCCTCTGCCCCTGGTCGTCAACACTTGGCCTTTTAAGAATGCCACTGAAGCAGCGTGGTGGACATT
GCTATCTGGAGGTTCTGCCCTGGATGCAGTGGAGAACGGCTGTGCTGTGTGTGAGAAGGAGCAGTGTGAT
GGGACTGTAGGCTTTGGAGGAAGTCCTGATGAAGGTGGCGAAACCACCCTGGATGCCATGATAATGGATG
GCACTGCCATGGATGTGGGAGCAGTGGGAGGCCTTAGAAGAATTAAAAACGCGATTGGCGTGGCGCGGAG
AGTCCTGGAGCATACCACACACACGCTTTTAGTGGGGGACTCAGCCACCAAGTTTGCTGAAAGTATGGGG
TTTACTAATGAGGACTTGTCTACCAAAACCTCAAGAGATCTTCATTCAGATTGGCTTTCTCGAAATTGCC
AGCCAAATTATTGGAGAAATGTTATTCCAGATCCCTCAAAATACTGTGGACCCTACAAACCATCTGGTTT
CTTAAAGCAGAGTATTTCTCCCCACAAAGAAGAAGTGGATATCCACAGCCATGATACTATTGGCATGGTT
GTAATCCATAAGACGGGACATACTGCTGCTGGCACATCCACAAATGGTATAAAATTCAAAATACCTGGTC
GTGTAGGGGATTCACCAATCCCTGGAGCCGGAGCCTATGCTGATGACACGGCTGGAGCAGCTGCAGCCAC
TGGCGATGGTGACACACTCCTGCGCTTTCTGCCGAGCTACCAAGCTGTAGAATATATGAGAGGAGGAGAT
GACCCAGCCATAGCTTGCCAAAAAGTGATTTTAAGAATTCAGAAATACTATCCAAACTTCTTTGGAGCGG
TCATATGTGCCAGTGTGAACGGAAGTTATGGTGCTGCTTGCAACAAACTTCCAACATTTACACAATTTAG
TTTCATGGTTTCTAATTCTTTACACAATGAGCCAACCGAAAAAAAAGTAGACTGCATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:**

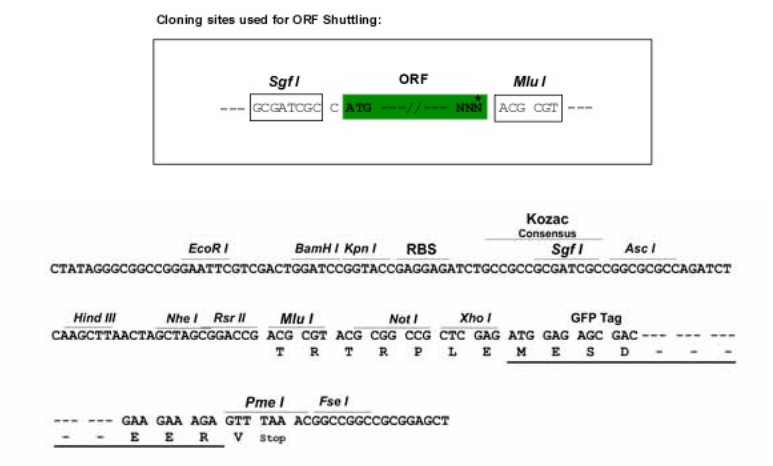
>MG224201 representing NM_001005847
Red=Cloning site Green=Tags(s)

MERKSNLSLLLLLLVLGMPLVRGSSPLPLVVNTWPFKNATEAAWWTLLSGGSALDAVENGCAVCEKEQCD
GTVGFGGSPDEGGETTLDAMIMDGTAMDVGAVGGLRRIKNAIGVARRVLEHTTHTLLVGDSATKFAESMG
FTNEDLSTKTSRDLHSDWLSRNCQPNYWRNVIPDPSKYCGPYKPSGFLKQSISPHKEEVDIHSHDTIGMV
VIHKTGHTAAGTSTNGIKFKIPGRVGDSPIPGAGAYADDTAGAAAATGDGDTLLRFLPSYQAVEYMRGGD
DPAIACQKVILRIQKYYPNFFGAVICASVNGSYGAACNKLPTFTQFSFMVSNSLHNEPTEKKVDCI

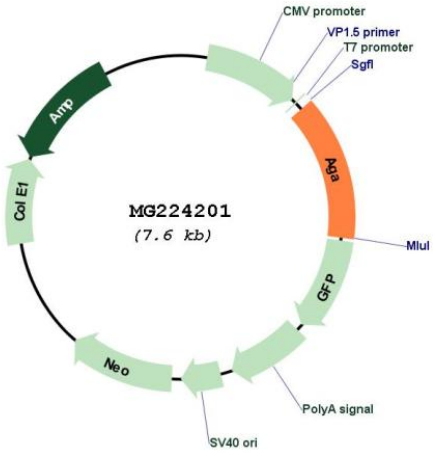
TRTRPLE – GFP Tag – V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**




**Plasmid Map:**




**ACCN:** NM_001005847

**ORF Size:** 1038 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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_001005847.2, NP_001005847.1 |
| **RefSeq Size:** | 1266 bp |
| **RefSeq ORF:** | 1041 bp |
| **Locus ID:** | 11593 |
| **UniProt ID:** | Q64191 |
| **Cytogenetics:** | 8 B1.3 |
| **Gene Summary:** | This gene encodes an amidase enzyme that participates in the breakdown of glycoproteins in the cell. The encoded protein undergoes proteolytic processing to generate a mature enzyme. Mice lacking the encoded protein exhibit accumulation of aspartylglucosamine along with lysosomal vacuolization, axonal swelling in the gracile nucleus and impaired neuromotor coordination. Alternative splicing results in multiple transcript variants encoding different isoforms that may undergo similar processing to generate mature protein. [provided by RefSeq, Oct 2015] |