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Product datasheet for MR224201

Aga (NM_001005847) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aga (NM_001005847) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aga
Synonyms:	AW060726
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR224201 ORF sequence
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

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

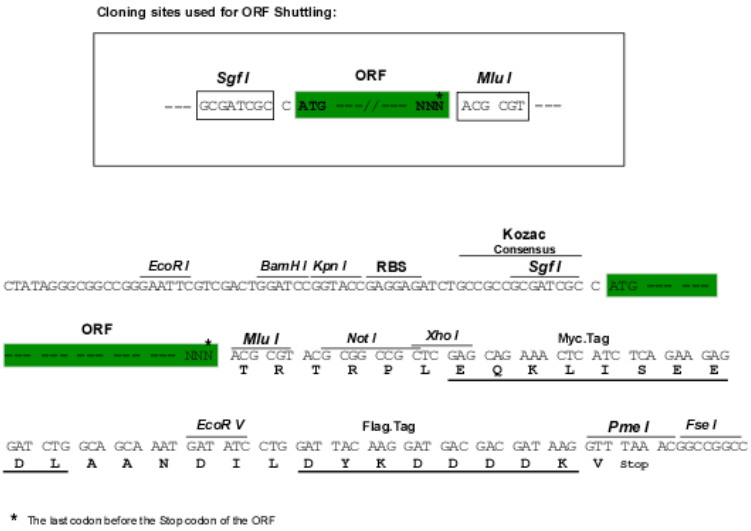
>MR224201 protein sequence
Red=Cloning site Green=Tags(s)

MERKSNLSLLLLLLVLGMPLVRGSSPLPLVVNTWPFKNATEAAWWTLLSGGSALDAVENGCAVCEKEQCD
GTVGFGGSPDEGGETTLDAMIMDGTAMDVGAVGGLRRIKNAIGVARRVLEHTTHTLLVGDSATKFAESMG
FTNEDLSTKTSRDLHSDWLSRNCQPNYWRNVIPDPSKYCGPYKPSGFLKQSISPHKEEVDIHSHDTIGMV
VIHKTGHTAAGTSTNGIKFKIPGRVGDSPIPGAGAYADDTAGAAAATGDGDTLLRFLPSYQAVEYMRGGD
DPAIACQKVILRIQKYYPNFFGAVICASVNGSYGAACNKLPTFTQFSFMVSNSLHNEPTEKKVDCI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001005847

ORF Size: 1041 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_001005847.2, NP_001005847.1

RefSeq Size: 1307 bp

RefSeq ORF: 1041 bp

Locus ID: 11593

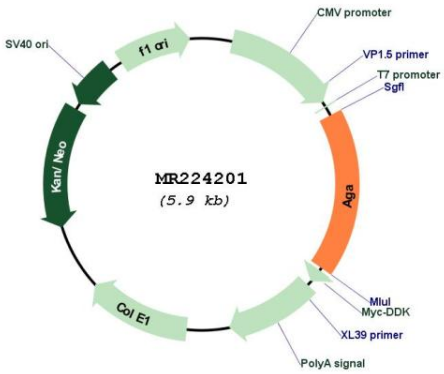
UniProt ID: Q64191

Cytogenetics: 8 B1.3

MW: 37 kDa

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]

Product images:



Circular map for MR224201