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Product datasheet for MR229318

Aga (NM_001205054) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aga (NM_001205054) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aga
Synonyms:	AW060726
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR229318 representing NM_001205054 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGAGCGGAAGTCGAATCTGTCTCTGCTTCTCCTACTGCTGGTCCTGGGCATGCCCCTGGTGCGGGGCT CCAGCCCTCTGCCCCTGGTCGTCAACACTTGGCCTTTTAAGAATGCCACTGAAGCAGCGTGGTGGACATT GCTATCTGGAGGTTCTGCCCTGGATGCAGTGGAGAACGGCTGTGCTGTGTGTGAGAAGGAGCAGTGTGAT GGGACTGTAGGCTTTGGAGGAAGTCCTGATGAAGGTGGCGAAACCACCCTGGATGCCATGATAATGGATG GCACTGCCATGGATGTGGGAGCAGTGGGAGGCCTTAGAAGAATTAAAAACGCGATTGGCGTGGCGCGGAG AGTCCTGGAGCATACCACACACACGCTTTTAGTGGGGGACTCAGCCACCAAGTTTGCTGAAAGTATGGGG TTTACTAATGAGGACTTGTCTACCAAAACCTCAAGAGATCTTCATTCAGATTGGCTTTCTCGAAATTGCC AGCCAAATTATTGGAGAAATGTTATTCCAGATCCCTCAAAATACTGTGGACCCTACAAACCATCTGGTTT CTTAAAGCAGAGTATTTCTCCCCACAAAGAAGAAGTGGATATCCACAGCCATGATACTATTGGCATGGTT GTAATCCATAAGACGGGACATACTGCTGCTGGCACATCCACAAATGGGGATTCACCAATCCCTGGAGCCG GAGCCTATGCTGATGACACGGCTGGAGCAGCTGCAGCCACTGGCGATGGTGACACACTCCTGCGCTTTCT GCCGAGCTACCAAGCTGTAGAATATATGAGAGGAGGAGATGACCCAGCCATAGCTTGCCAAAAAGTGATT TTAAGAATTCAGAAATACTATCCAAACTTCTTTGGAGCGGTCATATGTGCCAGTGTGAACGGAAGTTATG GTGCTGCTTGCAACAAACTTCCAACATTTACACAATTTAGTTTCATGGTTTCTAATTCTTTACACAATGA GCCAACCGAAAAAAAAGTAGACTGCATC ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

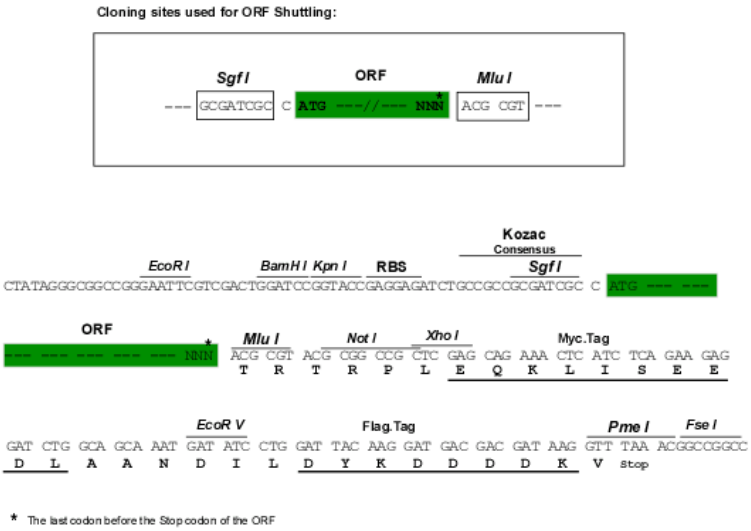
>MR229318 representing NM_001205054
Red=Cloning site Green=Tags(s)

MERKSNLSLLLLLLVLGMPLVRGSSPLPLVVNTWPFKNATEAAWWTLLSGGSALDAVENGCAVCEKEQCD
GTVGFGGSPDEGGETTLDAMIMDGTAMDVGAVGGLRRIKNAIGVARRVLEHTTHTLLVGDSATKFAESMG
FTNEDLSTKTSRDLHSDWLSRNCQPNYWRNVIPDPSKYCGPYKPSGFLKQSISPHKEEVDIHSHDTIGMV
VIHKTGHTAAGTSTNGDSPIPGAGAYADDTAGAAAATGDGDTLLRFLPSYQAVEYMRGGDDPAIACQKVI
LRIQKYYPNFFGAVICASVNGSYGAACNKLPTFTQFSFMVSNSLHNEPTEKKVDCI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

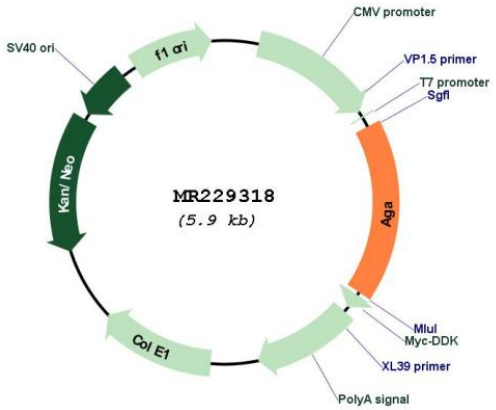
Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001205054

ORF Size: 1008 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_001205054.1, NP_001191983.1
RefSeq Size:	1277 bp
RefSeq ORF:	1011 bp
Locus ID:	11593
Cytogenetics:	8 B1.3
MW:	36.4 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]