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Product datasheet for MC227107

Aga (NM_001205054) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aga (NM_001205054) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Aga
Synonyms:	AW060726
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC227107 representing NM_001205054 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGAGCGGAAGTCGAATCTGTCTCTGCTTCTCCTACTGCTGGTCCTGGGCATGCCCCTGGTGCGGGGCT CCAGCCCTCTGCCCCTGGTCGTCAACACTTGGCCTTTTAAGAATGCCACTGAAGCAGCGTGGTGGACATT GCTATCTGGAGGTTCTGCCCTGGATGCAGTGGAGAACGGCTGTGCTGTGTGTGAGAAGGAGCAGTGTGAT GGGACTGTAGGCTTTGGAGGAAGTCCTGATGAAGGTGGCGAAACCACCCTGGATGCCATGATAATGGATG GCACTGCCATGGATGTGGGAGCAGTGGGAGGCCTTAGAAGAATTAAAAACGCGATTGGCGTGGCGCGGAG AGTCCTGGAGCATACCACACACACGCTTTTAGTGGGGGACTCAGCCACCAAGTTTGCTGAAAGTATGGGG TTTACTAATGAGGACTTGTCTACCAAAACCTCAAGAGATCTTCATTCAGATTGGCTTTCTCGAAATTGCC AGCCAAATTATTGGAGAAATGTTATTCCAGATCCCTCAAAATACTGTGGACCCTACAAACCATCTGGTTT CTTAAAGCAGAGTATTTCTCCCCACAAAGAAGAAGTGGATATCCACAGCCATGATACTATTGGCATGGTT GTAATCCATAAGACGGGACATACTGCTGCTGGCACATCCACAAATGGGGATTCACCAATCCCTGGAGCCG GAGCCTATGCTGATGACACGGCTGGAGCAGCTGCAGCCACTGGCGATGGTGACACACTCCTGCGCTTTCT GCCGAGCTACCAAGCTGTAGAATATATGAGAGGAGGAGATGACCCAGCCATAGCTTGCCAAAAAGTGATT TTAAGAATTCAGAAATACTATCCAAACTTCTTTGGAGCGGTCATATGTGCCAGTGTGAACGGAAGTTATG GTGCTGCTTGCAACAAACTTCCAACATTTACACAATTTAGTTTCATGGTTTCTAATTCTTTACACAATGA GCCAACCGAAAAAAAAGTAGACTGCATCTAA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Restriction Sites:	SgfI-MluI
ACCN:	NM_001205054

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Insert Size:	1011 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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
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] Transcript Variant: This variant (2) uses alternate in-frame splice sites in the 3' coding region, compared to variant 1. This results in a shorter protein (isoform 2), compared to isoform 1. This isoform (2) may undergo proteolytic processing similar to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.