

Product datasheet for SC117330

AGA (NM_000027) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AGA (NM_000027) Human Untagged Clone
Tag:	Tag Free
Symbol:	AGA
Synonyms:	AGU; ASRG; GA
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC117330 sequence for NM_000027 edited (data generated by NextGen Sequencing)

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ATGGCGCGGAAGTCGAACCTTGCCTGTGCTTCTCGTGCCGTTTCTGCTCTGCCAGGCCCTA
GTGCGCTGCTCCAGCCCTCTGCCCTGGTCGTCAACACTTGGCCCTTAAAGAATGCAACC
GAAGCAGCGTGGAGGGCATTAGCATCTGGAGGCTCTGCCCTGGATGCAAGTGGAGAGCGGC
TGTGCCATGTGTGAGAGAGAGCAGTGTGACGGCTCTGTAGGCTTTGGAGGAAGTCCTGAT
GAACCTGGAGAAACCACACTAGATGCCATGATCATGGATGGCACTACTATGGATGTAGGA
GCAGTAGGAGATCTCAGACGAATAAAAATGCTATTGGTGTGGCACGGAAAGTACTGGAA
CATACAACACACACACTTTTAGTAGGAGAGTCAGCCACCACATTTGCTCAAAGTATGGGG
TTTATCAATGAAGACTTATCTACCAGTGCTTCTCAAGCTTTCATTTCAGATTGGCTTGCT
CGGAATTGCCAGCCAAATTATTGGAGGAATGTTATACCAGATCCCTCAAATACTGCGGA
CCCTACAAACCACCTGGTATCTTAAAGCAGGATATTCCTATCCATAAAGAAACAGAAGAT
GATCGTGGTCATGACACTATTGGCATGGTTGTAATCCATAAAGACAGGACATATTGCTGCT
GGTACATCTACAAATGGTATAAAATTCAAAATACATGGCCGTGTAGGAGACTCACCAATA
CCTGGAGCTGGAGCCTATGCTGACGATACTGCAGGGGCAGCCGCAGCCACTGGGAATGGT
GATATATTGATGCGCTTCTGCCAAGCTACCAAGCTGTAGAATACATGAGAAGAGGAGAA
GATCCAACCATAGCTTGCCAAAAAGTGATTTCAAGAATCCAGAAGCATTTCCAGAATTC
TTTGGGGCTGTTATATGTGCCAATGTGACTGGAAGTTACGGTGTGCTTGCAATAAACTT
TCAACATTTACTCAGTTTAGTTTCATGGTTTATAATTCCGAAAAAAATCAGCCAAGTCTGAG
GAAAAAGTGGACTGCATCTAA

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Clone variation with respect to NM_000027.3
446 c=>g



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_000027 unedited GGTCAGGATTTGTATACGACTTACTATAGGCGGCCGCGNAATTCGCACGAGGCTCTTCGG TGGTCAGGGATGGCGCGGAAGTCGAACTGCCTGTGCTTCTCGTGCCGTTTCTGCTCTGC CAGGCCCTAGTGCCTGCTCCAGCCCTCTGCCCTGGTCGTCAACACTTGGCCCTTTAAG AATGCAACCGAAGCAGCGTGGAGGGCATTAGCATCTGGAGGCTCTGCCCTGGATGCAGTG GAGAGCGGCTGTGCCATGTGTGAGAGAGAGCAGTGTGACGGCTCTGTAGGCTTTGGAGGA AGTCCTGATGAACTTGGAGAAACCACACTAGATGCCATGATCATGGATGGCACTACTATG GATGTAGGAGCAGTAGGAGATCTCAGACGAATTAATAATGCTATTGGTGTGGCAGCGAAA GTACTGGAACATACAACACACACTTTTTAGTAGGAGAGTCAGCCACCACATTTGCTCAA AGTATGGGGTTTATCAATGAAGACTTATCTACCAGTGCTTCTCAAGCTCTTCATTCAGAT TGGCTTGTCTCGGAATTGCCAGCCAAATTATTGGAGGAATGTTATACCAGATCCCTCAAAA TACTGCGGACCCTACANACCACCTGGTATCTTAAAGCAGGATATTCCTATCCANTAAGAA ACAGAAGATGATCGTGGTCATGACACTATTGGCATGGTTGTAATCCATAAGACAGGACAT ATNGCTGCTGGTACATCTACAAATGGTATAAAAATCAAATACATGGCCGTGNTAGAGACT CACCANTACCTGGAGCTGGAGCCTATGCTGACGATACTGCAGGGGCGAGCCGAGCCACTG GGGAAGNGATATATTGATGCGCTTCTGNCCAGCTACCAAGCTGTTGNATACATGAGAA GAGGGNAAGATCCACCATAGCTGCCAAAAGTGATTTTCAGATCAGNACT</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_000027 unedited GGACCGCGGGCCCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTGGGTCTAAAAA TGTATACTCTATTTAAGCATCCAAATATGATGATTCCTTTTGGGTTTAATATATCACTG TGGAAATAAATCTCAAAGTAGCAATTTTTTGAACACTGATCAGAAATCCAAGTGCTACT TAAAACTTAAATATATACAAAATACAGCCACATACATATTCATCTTCAGATAATATAAGA AAGGTTAAATAAAAATAGATAATACAATTCAGATATAGAAAAGTGCCAATTCACATAAAA TTTATTTTTGTGTTTATTTTACAAAAGACTTTAGAACACATGAGGAACACTAGATGATG AGAGTGAGCAGCCTTTTCAGCCTTTGTTTCTTTCTTTTAAATACAGATGTTGACAGTA AAGATGGATTAGATGCAGTCCACTTTTTCTCAGTTGGCTGATTTTTTTCGGAATTATAA ACCATGAAACTAACTGAGTAAATGTTGAAAGTTATTGCAAGCAGCACCCTAACTTCCA GTCACATTGGCACATATAACAGCCCCAAGAATTCTGGAAAATGCTTCTGGATTCTTGAA ATCACTTTTTGGCAAGCTATGGTTGGATCTTCTCCTCTTCTCATGTATTCTACAGCTTGG TAGCTTGGCAGGAAGCGCATCAATATATACCATTCCCAGTGGCTGCGGCTGCCCTGCA GTATCGTCAGCATAGGCTCCAGCTCCACGTATTGGGGAGTCTCCTACACGGCCATGTATT TTGAAATTTATACCATTTGTAGATGTACCAGCAGCCATATGCTCCTGTCTTATGGATTACA CCATGCAATAGTGTATGACCACGATCATCTTTCTGTTCTTATGGNATAGAATATCCTG CCTTAAGAACCAGGTGGTTTGTAAAGTCCCA</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_000027
Insert Size:	1430 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).
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:	<ol style="list-style-type: none">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_000027.2 , NP_000018.1
RefSeq Size:	2041 bp
RefSeq ORF:	1041 bp
Locus ID:	175
UniProt ID:	P20933
Cytogenetics:	4q34.3
Domains:	Asparaginase_2
Protein Families:	Druggable Genome, Protease
Protein Pathways:	Lysosome, Other glycan degradation
Gene Summary:	<p>This gene encodes a member of the N-terminal nucleophile (Ntn) hydrolase family of proteins. The encoded preproprotein is proteolytically processed to generate alpha and beta chains that comprise the mature enzyme. This enzyme is involved in the catabolism of N-linked oligosaccharides of glycoproteins. It cleaves asparagine from N-acetylglucosamines as one of the final steps in the lysosomal breakdown of glycoproteins. Mutations in this gene are associated with the lysosomal storage disease aspartylglycosaminuria that results in progressive neurodegeneration. Alternative splicing results in multiple transcript variants, at least one of which encodes an isoform that is subject to proteolytic processing. [provided by RefSeq, Nov 2015]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>