

Product datasheet for **RG201975**

AGA (NM_000027) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AGA (NM_000027) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AGA
Synonyms:	AGU; ASRG; GA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201975 representing NM_000027 Red=Cloning site Blue=ORF Green=Tags(s)

GACGTTGTATACGACTCCTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GGCGGCC**

ATGGCGCGGAAGTCGAACCTGCCTGTGCTTCTCGTGCCGTTTCTGCTCTGCCAGGCCCTAGTGCGCTGCT
CCAGCCCTCTGCCCTGGTCGTCAACACTTGGCCCTTTAAGAATGCAACCGAAGCAGCGTGGAGGGCATT
AGCATCTGGAGGCTCTGCCCTGGATGCAGTGGAGAGCGGCTGTGCCATGTGTGAGAGAGAGCAGTGTGAC
GGCTCTGTAGGCTTTGGAGGAAGTCCTGATGAACTTGGAGAAACCACACTAGATGCCATGATCATGGATG
GCACTACTATGGATGTAGGAGCAGTAGGAGATCTCAGACGAATTAATAATGCTATTGGTGTGGCAGGGAA
AGTACTGGAACATACAACACACACTTTTAGTAGGAGAGTCAGCCACCACATTTGCTCAAAGTATGGGG
TTTATCAATGAAGACTTATCTACCAAGTCTTCAAGCTTTCATTTCAGATTGGCTTGTCTCGGAATTGCC
AGCCAAATTTATTGGAGGAATGTTATACCAGATCCCTCAAATACTGCGGACCCTACAAACCACCTGGTAT
CTTAAAGCAGGATATTCCTATCCATAAAGAAACAGAAGATGATCGTGGTCATGACACTATTGGCATGGTT
GTAATCCATAAGACAGGACATATTGCTGCTGGTACATCTACAAATGGTATAAAATTCAAATACATGGCC
GTGTAGGAGACTACCAATACCTGGAGCTGGAGCCTATGCTGACGATACTGCAGGGGCAGCCGACGCCAC
TGGGAATGGTATATATTGATGCGCTTCTGCCAAGCTACCAAGCTGTAGAATACATGAGAAGAGGAGAA
GATCCAACCATAGCTTGCCAAAAAGTGATTTCAAGAATCCAGAAGCATTTCAGAAATTCCTGGGGCTG
TTATATGTGCCAATGTGACTGGAAGTTACGGTGTGCTTGAATAAACTTCAACATTTACTCAGTTTAG
TTTCATGGTTTATAATTCCGAAAAAATCAGCCAACTGAGGAAAAAGTGGACTGCATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG201975 representing NM_000027
Red=Cloning site Green=Tags(s)

MARKSNLPVLLVPFLLCQALVRCSSPLPLVVNTWPFKNATEAAWRALASGGSALDAVESGCAMCEREQCD
 GSVGFGGSPDELGETTLDAMIMDGTMTDVGAVGDLRRIKNAIGVARKVLEHTTHTLLVGESATTTFAQSMG
 FINEDLSTASQALHSDWLARNCPNYWRNVIPDPSKCYGPKPPGILKQDPIPHKETEDDRGHDTIGMV
 VIHKTGHIAAGTSTNGIKFKIHGRVGDSPIPGAGAYADDTAGAAAATGNGDILMRFLPSYQAVEYMRRGE
 DPTIACQKVISRIQKHFFPEFFGAVICANVTGSYGAAACNKLSTFTQFSFMVYNSEKNQPTTEEKVDCI

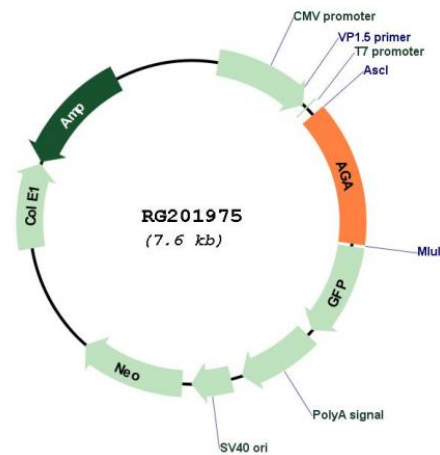
TRTRPLE - GFP Tag - V

Restriction Sites: AscI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_000027

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:	<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:	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]