

Product datasheet for **RG230376**

GGA1 (NM_001172687) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GGA1 (NM_001172687) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GGA1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG230376 representing NM_001172687
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGCCCGGATGGAGCCGAGACTCTGGAGCGCGAATCAATAGAGCCACGAACCCCTGAACAAGG
 AGCTCGACTGGGCCAGCATCAACGGCTTCTGCGAGCAGCTCAACGAGACTTTGAGGGCCCTCCACTCGC
 CACCCGGCTGCTGGCCACAAGATCCAGTCCCCACAGGAGTGGGAGGCGATCCAGGCCTTACGGTGTG
 GAAACATGCATGAAGAGCTGCGCAAGCGTTCCACGACGAAGTGGGCAAGTTCCGCTTTCTCAACGAGC
 TCATCAAGGTCGTGTCTCCCAAGTATCTGGGCTCTCGACATCGGAGAAGGTGAAGAACAAGATCTTGA
 GCTCCTTACAGCTGGACAGTGGCCTGCCGAGGAGGTGAAAATCGCAGAGGCCTACCAGATGCTAAAG
 AAGCAGGGGATTGTAAGTCCGACCCCAAGCTTCCAGTACACTACCTTCCCCTTCTCCTCCACGGC
 CGAAGAATGTGATCTTTGAAGATGAGGAGAAATCCAAGATGCTGGCCCGCTGCTGAAGAGCTCCATCC
 CGAAGACCTCCGCGCAGCCAATAAGCTCATCAAAGAGATGGTGCAGGAGGACCAGAAGCGGATGGAGAAG
 ATCTCGAAGAGGGTGAATGCCATCGAGGAGGTGAACAACAATGTGAAACTGCTCACGGAGATGGTATGA
 GCCACAGCCAGGGCGGCCGAGCAGCTGGCAGCAGCGAGGACCTCATGAAGGAACTGTACCAGCGCTGTGA
 GCGGATGCGGCCACGCTCTTCCGACTGGCGAGTGACACAGAGGACAATGATGAGGCCTTAGCGGAGATC
 CTGCAGGCCAATGACAACCTCACCCAGGTGATCAACCTGTATAAGCAGCTGGTGCGGGTGAGGAGGTCA
 ACGGTGATGCCACAGCCGGCTCCATCCCTGGGAGCACCTCGGCCCTGCTGGATCTCTCAGGCCTGGATCT
 CCCGCCTGCGGCCACCACCTACCCAGCTATGCCACCCGCCCTGGCGAGCAGGCCAGCCCTGAGCAGCCC
 AGTGCCTCAGTTCCCTGCTTACGACGAGCTCATGTCTCTGGCCTCAGTGACCCACACCCCTTCAG
 GCCCAAGCCTGGATGGTACCGGATGGAACAGCTCCAGTCTCGGATGCCACTGAGCCCCAGCCCTGCTG
 TCTGGCCAGGCCCCAGTATGGAAGCCGACCCAGCGCAGACATCCCTGCCAGCAAGCAGCGGTCTG
 GACGACCTAGACCTCCTGGGAAGACCCTCCTGCAGCAGTCGCTGCCCCCGGAATCCCAGGAGAAGCAGC
 AGCCAACCCCGGCTCACACTCCGGGACCTGCAGAATAAGAGCAGCAGCTGCAGCTCCCCAGCTCCAG
 CGCCACCAGCCTTCTCCACACCGTGTCCCAGAGCCCCCAGGCCTCCGACGAGCCCGTACCAACCGAG
 CTCTACTGGCCAGCATCACTGTCCCTGGAGTCCATCAAACCCAGCAACATCTGCCCGTACTGTGT
 ATGACCAGCACGGCTTCCGATCCTTCCATTTTCCCGGGACCCACTGCCAGGGCGCTCCGACGTGCT
 GGTGGTGGTGGTTCCATGCTGAGCACCGCCCCAGCCATCCGCAACATCGTGTCCAGTCAGCTGTC
 CCCAAGTTATGAAGGTGAAGCTGCAGCCACCCTCGGGCAGGAGCTGCCAGCTTTAAACCCATCGTCC
 ACCCCTCAGCAATCACCCAGTCTGCTGCTTGCCAACCCCCAGAAAGGAGAAGGTTGCGCTCCGCTACAA
 GCTCACCTTACCATGGGTGACCAGACCTACAACGAGATGGGGGATGTGGACCAGTTCACCCACCTGAA
 ACCTGGGGTAGCCTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG230376 representing NM_001172687
 Red=Cloning site Green=Tags(s)

MEPAMEPETLEARINRATNPLNKELDWASINGFCEQLNEDFEGPPLATRLLAHKIQSPQWEAIQALTVL
 ETCMKSCGKRFHDEVGKFRFLNELIKVVSFKYLSRTSEKVNKILELLYSWTVGLPEEVKIAEAYQMLK
 KQGIIVKSDPKLPDDTTFFLPPPRPKNVIFEDEEKSKMLARLLKSSHPEDLRAANKLIKEMVQEDQKRMK
 ISKRVNAIEEVNANNVLLTEMVMSHSQGGAAAGSSEDLMKELYQRCERMPTLFRASDTEDNDEALAEI
 LQANDNLTVQINLYKQLVRGEEVNGDATAGSIPGSTSALLDLGLDLPPAGTTYAMPTRPGEQASPEQP
 SASVSLDDELMSLGLSDPTPPSGPSLDGTGWNSFQSSDATEPPAPALAQAPSMESRPPAQTSLPASSGL
 DDLDLLGKTLQSLPPESQEQQPTPRLTLRDLQNKSSSCSSPSSATSLLHTVSPEPPRPPQVPVTE
 LSLASITVPLESIKPSNIPVTYVDYQHGFRILFHFARDPLPGRSDVLLVVVMSLSTAPQPIRNIVFQSAV
 PKVMKVKLQPPSGTELPFNPVHPSAITQVLLLANPQKEKVRRLRYKLTFTMGDQTYNEMGDVDQFPPE
 TWGSL

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM_001172687

ORF Size: 1905 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_001172687.1](#), [NP_001166158.1](#)

RefSeq Size: 3173 bp

RefSeq ORF: 1908 bp

Locus ID: 26088

UniProt ID: [Q9UJY5](#)

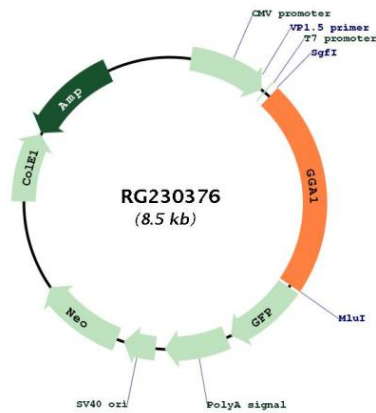
Cytogenetics: 22q13.1

Protein Families: Druggable Genome

Protein Pathways: Lysosome

Gene Summary: This gene encodes a member of the Golgi-localized, gamma adaptin ear-containing, ARF-binding (GGA) protein family. Members of this family are ubiquitous coat proteins that regulate the trafficking of proteins between the trans-Golgi network and the lysosome. These proteins share an amino-terminal VHS domain which mediates sorting of the mannose 6-phosphate receptors at the trans-Golgi network. They also contain a carboxy-terminal region with homology to the ear domain of gamma-adaptins. Multiple alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG230376