

Product datasheet for **RG219134**

GGA1 (NM_013365) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GGA1 (NM_013365) 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:

>RG219134 representing NM_013365
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAGCCCGCATGGAGCCGAGACTCTGGAGCGCGAATCAATAGAGCCACGAACCCCTGAACAAGG
 AGCTCGACTGGGCCAGCATCAACGGCTTCTGCGAGCAGCTCAACGAGACTTTGAGGGCCCTCCACTCGC
 CACCCGGCTGCTGGCCACAAGATCCAGTCCCCACAGGAGTGGGAGGCGATCCAGGCCTTACCGGTGCTG
 GAAACATGCATGAAGAGCTGCGCAAGCGTTCCACGACGAAGTGGGCAAGTTCCGCTTTCTCAACGAGC
 TCATCAAGGTCGTGTCTCCCAAGTATCTGGGCTCTCGGACATCGGAGAAGGTGAAGAACAAGATCTTGA
 GCTCCTTACAGCTGGACAGTGGGCTGCCGAGGAGGTGAAAATCGCAGAGGCCACCAGATGCTAAAG
 AAGCAGGGATTGTAAGTCCGACCCCAAGCTTCCAGATGACACTACCTTCCCCTTCTCCTCCACGGC
 CGAAGAATGTGATCTTTGAAGATGAGGAGAAATCCAAGATGCTGGCCCGCTGCTGAAGAGCTCCATCC
 CGAAGACCTCCGCGCAGCCAATAAGCTCATCAAAGAGATGGTGCAGGAGGACCAGAAGCGGATGGAGAAG
 ATCTCGAAGAGGGTGAATGCCATCGAGGAGGTGAACAACAATGTGAAACTGCTCACGGAGATGGTATGA
 GCCACAGCCAGGGCGGCCGAGCAGCTGGCAGCAGCGAGGACCTCATGAAGGAACTGTACCAGCGCTGTGA
 GCGGATGCGGCCACGCTCTTCCGACTGGCGAGTGACACAGAGGACAATGATGAGGCCTTAGCGGAGATC
 CTGCAGGCCAATGACAACCTCACCCAGGTGATCAACCTGTATAAGCAGCTGGTGCGGGTGAGGAGGTCA
 ACGGTGATGCCACAGCCGGCTCCATCCCTGGGAGCACCTCGGCCCTGCTGGATCTCTCAGGCCTGGATCT
 CCCGCCTGCGGCCACCACCTACCCAGCTATGCCACCCGCCCTGGCGAGCAGGCCAGCCCTGAGCAGCCC
 AGTGCCTCAGTTCCCTGCTTACGACGAGCTCATGTCTCTGGGCTCAGTGACCCACACCCCTTCCAG
 GCCCAAGCCTGGATGGTACCGGATGGAACAGCTCCAGTCTCGGATGCCACTGAGCCCCAGCCCTGCTG
 TCTGGCCAGGCCCCAGTATGGAAGCCGACCCAGCCAGCAGACATCCCTGCCAGCAAGCAGCGGTCTG
 GACGACCTAGACCTCCTGGGAAGACCTCCTGCAGCAGTCGCTGCCCCCGGAATCCCAGCAAGTGCAGT
 GGGAGAAGCAGCAGCCAACCCCGGCTCACACTCCGGGACCTGCAGAATAAGAGCAGCAGCTGCAGCTC
 CCCAGCTCCAGCGCCACCAGCCTTCTCCACACCGTGTCCCAGAGCCCCAGGCCTCCGAGCAGCCC
 GTACCAACCGAGCTCTACTGGCCAGCATCACTGTGCCCTGGAGTCCATCAAACCCAGCAACATCTGC
 CCGTGACTGTGTATGACCAGCACGGCTTCCGCATCCTCTCCATTTTGGCCGGGACCCACTGCCAGGGCG
 CTCGACGTGCTGGTGGTGGTGGTTCCATGCTGAGCACCGCCCCAGCCATCCGCAACATCGTGTTC
 CAGTCAGCTGTCCCAAGTTATGAAGGTGAAGCTGCAGCCACCTCGGGCAGGAGCTGCCAGCTTTTA
 ACCCCATCGTCCACCCCTCAGCAATCACCCAGGTCTGCTGCTTGCCAACCCCAAGGAGAAGGTTCG
 CCTCCGCTACAAGCTCACCTTACCATGGGTGACCAGACCTACAACGAGATGGGGATGTGGACCAGTTC
 CCCCACCTGAAACCTGGGGTAGCCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG219134 representing NM_013365
 Red=Cloning site Green=Tags(s)

MEPAMEPETLEARINRATNPLNKELDWASINGFCEQLNEDFEGPPLATRLLAHKIQSPQWEAIQALTVL
 ETCMKSCGKRFHDEVGKFRFLNELIKVVSFKYLSRTSEKVNKILELLYSWTVGLPEEVKIAEAYQMLK
 KQGIIVKSDPKLPDDTTFFLPPPRPKNVIFEDEEKSKMLARLLKSSHPEDLRAANKLIKEMVQEDQKRMEK
 ISKRVNAIEEVNANNVLLTEMVMSHSQGGAAAGSSEDLMKELYQRCERMPTLFRASDTEDEALAEI
 LQANDNLTVQINLYKQLVRGEEVNGDATAGSIPGSTSALLDL SGLDLPPAGTTYAMPTRPGEQASPEQP
 SASVSLLDDELMSLGLSDPTPPSGPSLDGTGWNSFQSSDATEPPAPALAQAPSMESRPPAQTSLPASSGL
 DDLDLLGKTLQSLPPESQQVRWEKQQPTPRLTLRDLQNKSSSCSSPSSSATSLLLHTVSPPEPRPPQQP
 VPTELSLASITVPLESIKPSNILPVTVYDQHGFRILFHFARDPLPGRSDLVVVVSMSTAPQPIRNVIF
 QSAVPKVMKVKLQPPSGTELPAFNPIVHPSAITQVLLLANPQKEKVRRLRYKLTFTMGDQTYNEMGDVDQF
 PPPETWGS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM_013365

ORF Size: 1917 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_013365.5](#)

RefSeq Size: 3163 bp

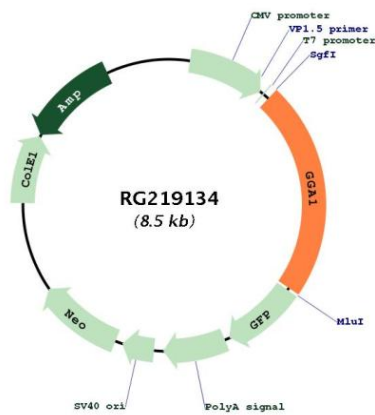
RefSeq ORF: 1920 bp

Locus ID: 26088

UniProt ID: [Q9UJY5](#)

Cytogenetics: 22q13.1
Domains: VHS, GAT, Alpha_adaptinC2
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 RG219134