

Product datasheet for **RC208305**

GGA1 (NM_001001560) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GGA1 (NM_001001560) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GGA1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC208305 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAGCCCGCATGGAGCCGGAGACTCTGGAGGCGCAATCAATAGAGCCACGAACCCCTGAACAAGG
 AGCTCGACTGGGCCAGCATCAACGGCTTCTGCGAGCAGCTCAACGAGACTTTGAGGGCCCTCCACTCGC
 CACCCGGCTGCTGGCCCAAGATCCAGTCCCCACAGGAGTGGGAGGCGATCCAGGCCTTACCGGTGCTG
 GAAACATGCATGAAGAGCTGCGCAAGCGTTCCACGACGAAGTGGGCAAGTTCCGCTTTCTCAACGAGC
 TCATCAAGGTCGTCTCCCAAGTATCTGGGCTCTCGGACATCGGAGAAGGTGAAGAACAAGATCTTGA
 GCTCCTTACAGCTGGACAGTGGGCTGCCGAGGAGGTGAAAATCGCAGAGGCCTACCAGATGCTAAAG
 AAGCAGGGGATTGTAAGTCCGACCCCAAGCTTCCAGATGACACTACCTTCCCCTTCTCCTCCACGGC
 CGAAGAATGTGATCTTTGAAGATGAGGAGAAATCCAAGATGCTGGCCCGCTGCTGAAGAGCTCCATCC
 CGAAGACTCCGCGCAGCCAATAAGCTCATCAAAGAGATGGTGCAGGAGGACCAGAAGCGGATGGAGAAG
 ATCTCGAAGAGGGTGAATGCCATCGAGGAGGTGAACAACAATGTGAAACTGCTCACGGAGATGGTATGA
 GCCACAGCCAGGGCGGCCGAGCAGCTGGCAGCAGCGAGGACCTCATGAAGGAACTGTACCAGCGCTGTGA
 GCGGATGCGGCCACGCTCTTCCGACTGGCGAGTGACACAGAGGACAATGATGAGGCCTTAGGCCTCAGT
 GACCCACACCCCTTACGGCCCAAGCCTGGATGGTACCGGATGGAACAGCTTCCAGTCGTCCGATGCCA
 CTGAGCCCCCAGCCCTGCTCTGGCCCAGGCCCCAGTATGGAAGCCGACCCCCAGCGCAGACATCCCT
 GCCAGCAAGCAGCGGTCTGGACGACCTAGACCTCCTGGGAAGACCCTCCTGCAGCAGTCGCTGCCCCG
 GAATCCAGCAAGTGGGTGGGAGAAGCAGCAGCAACCCCGGCTCACACTCCGGGACCTGCAGAATA
 AGAGCAGCAGCTGCAGCTCCCCAGCTCCAGCGCCACCAGCCTTCCACACCGTGTCCCAGAGCCCCC
 CAGGCCTCCGACGACGCCGTACCAACCGAGCTCTCACTGGCCAGCATCACTGTGCCCTGGAGTCCATC
 AAACCCAGCAACATCCTGCCCGTACTGTGTATGACCAGCACGGCTTCCGCATCCTCTTCCATTTTGCC
 GGGACCCACTGCCAGGGCGCTCCGACGTCTGGTGGTGGTGGTTCCATGCTGAGCACCGCCCCCAGCC
 CATCCGCAACATCGTGTCCAGTCAGCTGTCCCAAGGTTATGAAGGTGAAGCTGCAGCCACCCTCGGGC
 ACGGAGCTGCCAGCTTTTAAACCCATCGTCCACCCTCAGCAATCACCCAGGTCCTGCTGTTGCCAAC
 CCCAGAAGGAGAAGTTCCGCTCCGCTACAAGCTCACCTTACCATGGGTGACCAGACTACAACGAGAT
 GGGGGATGTGGACCAGTCCCCCACCCTGAAACCTGGGGTAGCCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC208305 protein sequence
 Red=Cloning site Green=Tags(s)

MEPAMEPETLEARINRATNPLNKELDWASINGFCEQLNEDFEGPPLATRLLAHKIQSPQEWAIQALTVL
 ETCMKSCGKRFHDEVGKFRFLNELIKVSPKYLGSRTSEKVKNKILELLYSWTVGLPEEVKIAEAYQMLK
 KQGIKSDPKLPDDTTFFLPPPRKNIIFEDEEKSKMLARLLKSSHPEDLRAANKLIKEMVQEDQKRMEK
 ISKRVNATIEEVNNVKKLLTEMVMSHSQGGAAAGSSEDLMKELYQRCERMPTLFRLASDTEDEALGLS
 DPTPPSGPSLDGTGWNSFQSSDATEPPAPALAQAPSMESRPPAQTSLPASSGLDDDLLGKTLQQLSPP
 ESQQVRWEKQQTPTLRLDLQNKSSSSPSSSATSLLHTVSPPEPPPPQPVPTLSELASITVPLESI
 KPSNILPVTVYDQHGFRLIFHFARDPLGRSDVLVVVSMSTAPQPIRNIIVFQSAVPKVMKVLQPPSG
 TELPAFNPIVHPSAITQVLLLANPQKEKVRRLRYKLTFTMGDQTYNEMGDVDQFPPEPWGSL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6552_c05.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001001560

ORF Size: 1656 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_001001560.2](#), [NP_001001560.1](#)

RefSeq Size: 2924 bp

RefSeq ORF: 1659 bp

Locus ID: 26088

UniProt ID: [Q9UJY5](#)

Cytogenetics: 22q13.1

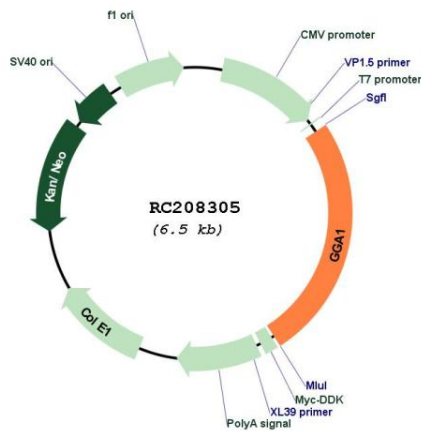
Protein Families: Druggable Genome

Protein Pathways: Lysosome

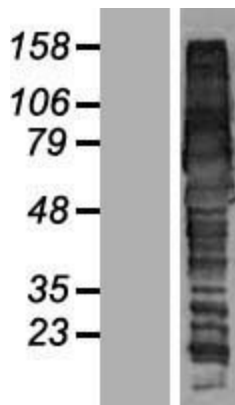
MW: 61.4 kDa

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]

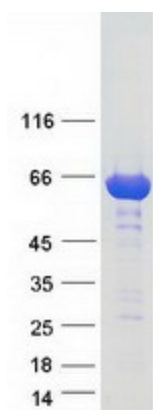
Product images:



Circular map for RC208305



Western blot validation of overexpression lysate (Cat# [LY424381]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208305 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified GGA1 protein (Cat# [TP308305]). The protein was produced from HEK293T cells transfected with GGA1 cDNA clone (Cat# RC208305) using MegaTran 2.0 (Cat# [TT210002]).