

Product datasheet for **RG239205**

GGA3 (NM_001291641) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GGA3 (NM_001291641) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GGA3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG239205 representing NM_001291641.
 Blue=ORF Red=Cloning site Green=Tag(s)

```

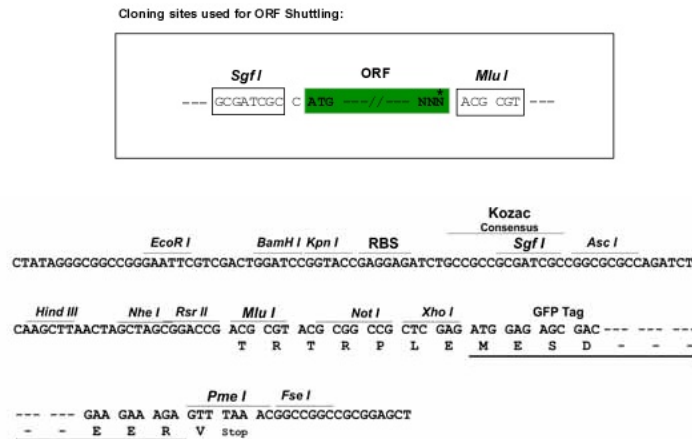
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGAAGAACTGTGGGAGGAGATTTCATAACGAAGTGGGAAGTCCGCTTTTTGAATGAGTTAATCAA
ATCGTCTCTCAAAGTACCTGGGGACAGGGTGTCTGAGAAAGTGAAGACCAAGTTATTGAGCTGCTG
TACAGCTGGACCATGGCCCTGCCAGAAGAAGCAAAGATCAAAGACGCCTACCACATGCTGAAGAGACAG
GGCATAGTGCAGTCTGACCCACCAATTCCTGTGGATAGGACGCTGATCCCTCTCCACCCTCGTCCC
AAAAACCTGTTTTGATGATGAGGAGAAGTCCAAGCTTTAGCCAAGCTGCTGAAAAGCAAAAACCA
GATGACCTGCAGGAGGCCAACAGCTCATCAAGTCCATGGTGAAGGAAGACGAGGCACGGATCCAGAAG
GTGACCAAGCGTCTGCACACGTTAGAGGAAGTTAAACAACAGTGAAGTCTGCTGAGTGTGCTGCTT
CATTACAGCCAGGAGGACTCTTCGGACGGGACAGAGAGCTGATGAAGGAGCTGTTTGTAGTGTGAG
AACAAGAGCGGACTTTATTTAACTCGCCAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT
CTGCAAGCCAGTGAACCTCTCCGGGTCACTCAACTTTACAAAACAATTATTGAAGGGCAGGTATC
AATGGCGAGGTGGCTACCTTAACCTGCCTGACTCGGAAGGAAACAGTCAAGTGAAGTGAAGTGAAGT
CTCATCGACCTTGCGGAGCTGGACACGACCAACAGTTTGTCTCCGTGTTGGCCCCAGCCTACTCCA
CCCTCCTCAGGCATCCCAATCCTCCCTCCACCACCCAGGCCTCAGGACCTCCACGGAGCCGCTCCTCT
AGCCAGGCCGAGGCCACCTGGGGCCAGCAGCACAAAGCAACGCCTCTCCTGGCTGGACGAGGAGCTA
CTCTGCTTGGGCTCGCCGACCCAGCCCTAATGTTCTCCCAAAGAGTCAAGTGGGAACAGCCAGTGG
CACCTGCTCCAGAGGGAACAGTCCGACCTGGACTTCTTCAGCCCCAGGCCGGGACCGCTGCCTGTGGC
GCCTCCGATGCTCCTCTGCTCCAGCCCTCAGCCCCCTCCTCAAGCAGTCCCAAGCTCCACTGCCGCT
CCCTTCCAGCTCCTGTGGTCCCAGCCAGTGTTCCTGCCCCAGTGGGGCTCCTCTTGTCTTCTACT
GGAGTGGCCCCAGCCTTGCCCCAAAAGTTGAGCCCGCAGTCCCTGGGCACCATGGCTTGGCGTTGGGC
AACAGCGCGCTGCACCACCTGGATGCCCTCGATCAGTCTTAGAAGAGGCCAAAGTGACCTCGGGCTTG
GTGAAACCCACTACCTCCCTCTCATCCCCACCACCACCCAGCCAGGCCCTCCTGCCCTTCTCCACG
GGGCCCGGACCCGCTCTTCCAGCCACTGAGTTTCCAGTCCCAGGGCAGCCCCCGAAGGGGCTGAG
CTCTCCCTGGCCAGCATCCACGTGCCCTGGAATCGATCAAGCCTAGCAGTGCCTTCTGTGACAGCC
TACGATAAAAACGGCTTCCGCATCCTCTTCCACTTTGCCAAGGAGTGTCCCCAGGACGACCTGACGTG
CTGGTGGTGGTGTCCATGCTGAACACGGCTCCCTTACCTGTCAAGAGCATCGTGTGACAGGCTGCA
GTGCCCAAGTCAATGAAAGTGAAGTTGCAGCCACCTTCTGGGACAGAAGTCTCTCCATTTAGCCCCATC
CAGCCACCTGCAGCCATACCCAGGTATGTTGCTGGCCAATCCACTGAAGGAGAAGGTGCGGCTTCGG
TATAAGCTGACCTTCGCCCTGGGGGAGCAGCTGAGCACAGAGGTGGGCGAGGTGGACCAGTTCCTCCT
GTGGAACAGTGGGGGAACCTA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
  
```

Protein Sequence: >Peptide sequence encoded by RG239205
 Blue=ORF Red=Cloning site Green=Tag(s)

MKNCGRFRFHNEVGKFRFLNELIKVVSPKYLGDRVSEKVKTKVIELLYSWTMALPEEAKIKDAYHMLKRQ
 GIVQSDPPPIPVDRTLIPSPPPRPKNPVFDDEEKSKLLAKLLKSKNPDDLQEQANKLIKSMVKEDEARIQK
 VTKRLHTLEEVENNVRLLEMLLHYSQEDSSDGDRELMKELFDQCENKRRTLFKLASETEDNDNSLGDIL
 LQASDNL SRVINSYKTIIEGQVINGEVATLTLDPSEGNQCSNQGTLIDLAELDTNLSVLPAPPTP
 PSSGIPILPPPPQASGPPRSRSSSQAEATLGPSSSTSNALSWLDEELLCLGLADPAPNVPPKESAGNSQW
 HLLQREQSDLDFSPRPGTAACGASDAPLLQPSAPSSSSSQAPLPPFPAPVVPASVPASAGSSLFST
 GVPALAPKVEPAVPGHHGLALGNSALHHLDALDQLLEEAKVTSGLVKPTTSPLIPTTTTPARLLPFST
 GPGSPLFQPLSFQSGSPPKGPESLASHVPLESIKPSALPVTAYDKNGFRILFHFAKECPPGRPDV
 LVVVVSMNLNTAPLPVKSIVLQAAPVPSMKVQLQPPSGTELSPFSPIQPPAAITQVMLLANPLKEKVRRL
 YKLTALGEQLSTEVEVDQFPPVEQWGNL
 TRTRPLEMESDEGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP
 SVIFTDKIIRSNTAVEHLHPMGDNDLDGSFTRTFLRDGGYYSSVVDSHMHFKSAIHPISILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001291641

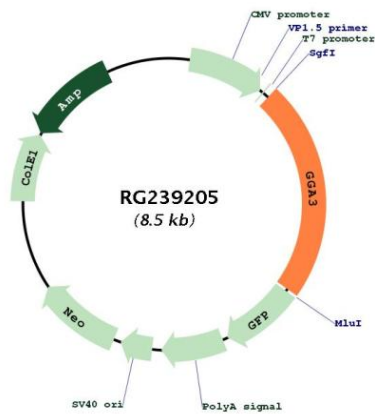
ORF Size: 1953 bp

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).
RefSeq:	<u>NM_001291641.2</u>
RefSeq Size:	4118 bp
RefSeq ORF:	1956 bp
Locus ID:	23163
UniProt ID:	<u>Q9NZ52</u>
Cytogenetics:	17q25.1
Protein Families:	Druggable Genome
Protein Pathways:	Lysosome
MW:	70.6 kDa
Gene Summary:	This gene encodes a member of the Golgi-localized, gamma adaptin ear-containing, ARF-binding (GGA) family. This family includes 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 have been identified in this gene. [provided by RefSeq, Feb 2010]

Product images:



Circular map for RG239205