

Product datasheet for **RC209737**

GGA3 (NM_014001) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GGA3 (NM_014001) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GGA3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC209737 representing NM_014001
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGAGGCGGAAGGGGAAAGCCTGGAGTCCTGGCTCAATAAGCCACCAATCCTTCCAACGCCAGG
 AGGACTGGGAATACATAATTGGCTTCTGTGATCAGATCAACAAGGAGCTGGAAGGGCCACAGATCGCCGT
 CCGACTGCTGGCCACAAGATCCAGTCCCCACAGGAATGGGAGGCGCTCCAGGCCCTGACGTACCTGGGG
 GACAGGGTGTCTGAGAAAGTGAAGACCAAGGTTATTGAGCTGCTGTACAGCTGGACCATGGCCCTGCCAG
 AAGAAGCAAAGATCAAAGACGCCTACCACATGCTGAAGAGACAGGGCATAAGTGCAGTCTGACCCACCAAT
 TCCTGTGGATAGGACGCTGATCCCCTCTCCACCACCTCGTCCAAAAACCTGTTTTTATGATGATGAGGAG
 AAGTCCAAGCTTTAGCCAAGCTGCTGAAAAGCAAAAACCCAGATGACCTGCAGGAGGCCAACAAAGTCA
 TCAAGTCCATGGTGAAGGAAGACGAGGCACGGATCCAGAAGGTGACCAAGCGTCTGCACACGTTAGAGGA
 AGTTAACAAACAGTGAGACTGCTCAGTGAGATGCTGCTTCAATTACAGCCAGGAGGACTCTCGGACGGG
 GACAGAGAGCTGATGAAGGAGCTGTTTATGATCAGTGTGAGAACAAGAGGCGGACTTTATTTAAACTCGCCA
 GTGAGACTGAGGACAATGATAACAGTTTGGGGGACATCCTGCAAGCCAGTGACAACCTCTCCCGGGTTCAT
 CAACTCTTACAAAACAATTATTGAAGGGCAGGTCAATGGCGAGGTGGCTACCTTAACCTGCCTGAC
 TCGGAAGGAAACAGTCAAGTGCAGTAACCAAGGCACGCTCATCGACCTTGGCGAGCTGGACACGACCAACA
 GTTTGTCTCCGTGTTGGCCCCAGCACCTACTCCACCCTCCTCAGGCATCCCAATCCTCCCTCCACCACC
 CCAGGCCCTCAGGACCTCCACGGAGCCGCTCCTCTAGCCAGGCCGAGGCCACCCTGGGGCCAGCAGCACA
 AGCAACGCCCTCCTCTGGCTGGACGAGGAGCTACTCTGCTTGGCCTCGCCGACCCAGCCCTAATGTTCT
 TCCCCAAAGAGTCAGCTGGGAACAGCCAGTGGCACCTGCTCCAGAGGGAACAGTCCGACCTGGACTTCTT
 CAGCCCCAGGCCGGGACCGCTGCCTGTGGCGCCTCCGATGCTCCTCTGCTCCAGCCCTCAGCCCCCTCC
 TCAAGCAGCTCCAAGCTCCACTGCCGCCTCCCTTCCCAGCTCCTGTGGTCCCAGCCAGTGTTCCTGCC
 CCAGTGGGGCTCCTCCTGTTTTCTACTGGAGTGGCCCCAGCCTTGGCCCCAAAAGTTGAGCCCGCAGT
 CCCTGGGCACCATGGCTTGGCGTTGGGCAACAGCGCGCTGCACCACCTGGATGCCCTCGATCAGTTCTA
 GAAGAGGCCAAAGTGACCTCGGGCTTGGTGAACCCACTACCTCCCTCTCATCCCCACCACCACCCAG
 CCAGGCCCTCCTGCCCTTCTCCACGGGGCCCGCAGCCCGCTTCCAGCCACTGAGTTTCCAGTCCCA
 GGGCAGCCCCCGAAGGGGCTGAGCTCCTCTGGCCAGCATCCACGTGCCCTGGAATCGATCAAGCCT
 AGCAGTGCCTTCTGTGACAGCCTACGATAAAAACGGCTTCCGATCCTTCCACTTTGCCAAGGAGT
 GTCCCCCAGGACGACCTGACGTGCTGGTGGTGGTGTCCATGCTGAACACGGCTCCCTTACCTGTCAA
 GAGCATCGTGTGACAGGCTGCAAGTCAATGAAAGTGAAGTTGCAGCCACCTTCTGGGACAGAA
 CTCTCTCCATTTAGCCCCATCCAGCCACCTGCAGCCATCACCCAGGTCATGTTGCTGGCCAACTCCACTGA
 AGGAGAAGGTGCGGCTTCGGTATAAGCTGACCTTCGCCCTGGGGGAGCAGCTGAGCACAGAGGTGGGCGA
 GGTGGACCAAGTCCCTCCTGTGGAACAGTGGGGGAACCTA

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC209737 representing NM_014001
Red=Cloning site Green=Tags(s)

MAEAEGESLESWLNKATNPSNRQEDWEYIIGFCDQINKELEGPQIAVRLLAHKIQSPQEWEALQALTYLG
 DRVSEKVKTKVIELLYSWTMALPEEAKIKDAYHMLKRQGIQSDPPIPVDRTLIPSPPRKPNVFDDEE
 KSKLLAKLLKSKNPDDLQEANKLIKSMVKEDEARIQKVKRLHTLEEVNANNVRLLEMLLHYSQEDSSDG
 DRELMKELFDQCENKRRTLFKLASETEDNDNSLGDILQASDNL SRVINSYKTIIEGQVINGEVATL TLPD
 SEGNSQCSNQGTLIDLAE LDTTNSLSSVLA PAPT PPSGIPILPPPQASGPPRSRSSQAEATLGPSST
 SNALSWLDEELLCLGLADPAPNVPPKESAGNSQWHL LQREQSDLDFFSPRPGTAACGASDAPLLQPSAPS
 SSSSQAPLPPFPAPVVPASVPAPSAGSSLFSTGVAPALAPKVEPAVPGHHGLALGNSALHHLDALDQLL
 EEAKVTSGLVKPTTSPLIPTTTPARLLPFSTGPGSPLFQPLSFQSQGSPKGPPEL SLASIHVPLESIK P
 SSALPVTAYDKNGFRILFHFAKECPPGRPDV L VVVV SMLNTAPLPVKSI VLQA AVPKSMKVKLQPPSGTE
 LSPFSPIQPPAAITQVMLLANPLKEKVR LRYKLT FALGEQLSTE VGEVDQFPVVEQWGNL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_014001

ORF Size: 2070 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_014001.5](#)

RefSeq Size: 3823 bp

RefSeq ORF: 2073 bp

Locus ID: 23163

UniProt ID: [Q9NZ52](#)

Cytogenetics: 17q25.1

Domains: VHS, GAT, Alpha_adaptinC2

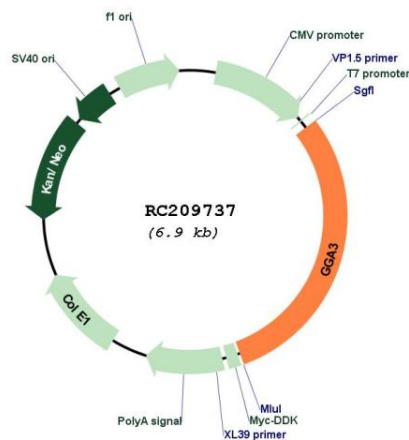
Protein Families: Druggable Genome

Protein Pathways: Lysosome

MW: 74.5 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 RC209737