

Product datasheet for **SC328958**

GGA3 (NM_001172704) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GGA3 (NM_001172704) Human Untagged Clone
Tag:	Tag Free
Symbol:	GGA3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

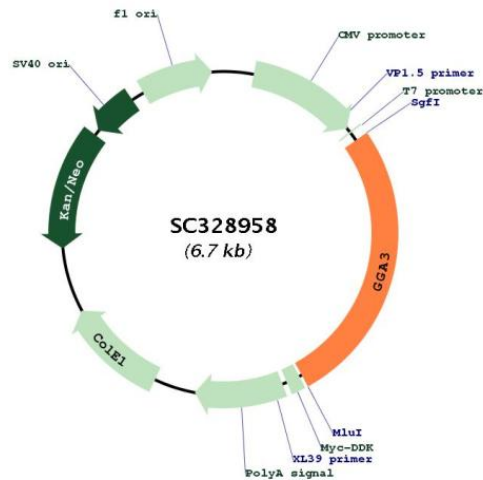


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Fully Sequenced ORF: >SC328958 representing NM_001172704.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCCCTGCCAGAAGAAGCAAAGATCAAAGACGCCTACCACATGCTGAAGAGACAGGGCATAAGTGCAG
TCTGACCCACCAATTCCGTGGATAGGACGCTGATCCCCTCCACCACCTCGTCCCAAAAACCTGTT
TTTGATGATGAGGAGAAGTCCAAGCTTTTAGCCAAGCTGCTGAAAAGCAAAAACCCAGATGACCTGCAG
GAGGCCAACAAGCTCATCAAGTCCATGGTGAAGGAAGACGAGGCACGGATCCAGAAGGTGACCAAGCGT
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GAGGACTCTTCGGACGGGACAGAGAGCTGATGAAGGAGCTGTTGATCAGTGTGAGAACAAGAGGCGG
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GCCACCCTGGGGCCAGCAGCACAAAGCAACGCCCTCCTCGGCTGGACGAGGAGCTACTCTGCTTGGGC
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ACCTCCCCTCTCATCCCCACCACCACCCAGCCAGGCCCTCCTGCCCTTCTCCAGGGGCCCGGCAGC
CCGCTCTTCCAGCCACTGAGTTTCCAGTCCCAGGGCAGCCCCCGAAGGGGCTGAGCTCTCCCTGGCC
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GCCATACCCAGGTGATGTTGCTGGCAATCCACTGAAGAAGCAGGTAAGTCTCAGCTTTCTGGGAAAAGCG
TGCTCCAGCCGTGGGGACAGGCCATCCTACTGACTACCTTGTGCTTGGCATGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI

Plasmid Map:


ACCN: NM_001172704

Insert Size: 1779 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001172704.2](#)

RefSeq Size: 2991 bp

RefSeq ORF: 1779 bp

Locus ID: 23163

UniProt ID: [Q9NZ52](#)

Cytogenetics: 17q25.1

Protein Families: Druggable Genome

Protein Pathways: Lysosome

MW: 62.9 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]
Transcript Variant: This variant (2) contains alternate 5' exon structure and it thus differs in its 5' UTR and initiates translation at a downstream in-frame start codon, and it also contains an alternate 3' terminal exon that results in an alternate 3' coding region, compared to variant long. The encoded isoform (2) is shorter at the N-terminus and has a distinct C-terminus, compared to isoform long.