

Product datasheet for **SC329014**

GGA1 (NM_001172687) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GGA1 (NM_001172687) Human Untagged Clone
Tag:	Tag Free
Symbol:	GGA1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

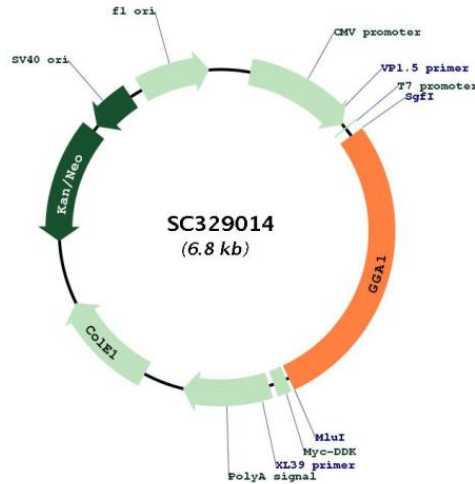


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Fully Sequenced ORF: >SC329014 representing NM_001172687.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAGCCCGGATGGAGCCGGAGACTCTGGAGGCGGAATCAATAGAGCCACGAACCCCTGAACAAG
GAGCTCGACTGGCCAGCATCAACGGCTTCTGCGAGCAGCTCAACGAGGACTTTGAGGGCCTCCACTC
GCCACCCGGTGTCTGGCCACAAGATCCAGTCCCACAGGAGTGGGAGGGATCCAGGCCTTGACGGTG
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI

Plasmid Map:


ACCN: NM_001172687

Insert Size: 1908 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_001172687.1](#)

RefSeq Size: 3173 bp

RefSeq ORF: 1908 bp

Locus ID: 26088

UniProt ID: [Q9UJY5](#)

Cytogenetics: 22q13.1

Protein Families: Druggable Genome

Protein Pathways: Lysosome

MW: 69.8 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]

Transcript Variant: This variant (4) lacks an in-frame segment in the coding region, as compared to variant 1. The resulting isoform (4) lacks an internal segment of 4 aa, as compared to isoform 1.