

## Product datasheet for **SC336944**

### **GGA3 (NM\_001291642) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	GGA3 (NM_001291642) Human Untagged Clone
Tag:	Tag Free
Symbol:	GGA3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

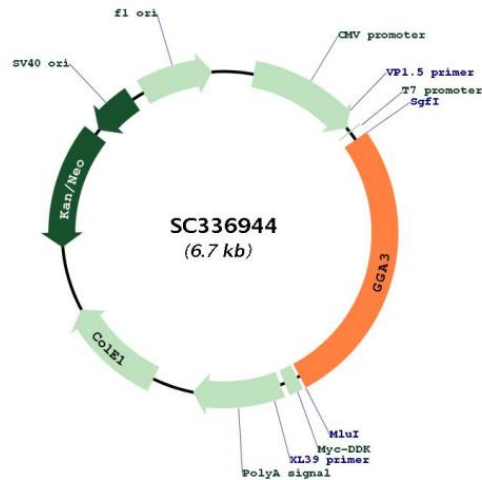


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Fully Sequenced ORF: >SC336944 representing NM\_001291642.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCCCTGCCAGAAGAAGCAAAGATCAAAGACGCCTACCACATGCTGAAGAGACAGGGCATAAGTGCAG
TCTGACCCACCAATTCCGTGGATAGGACGCTGATCCCTCTCCACCACCTCGTCCAAAAACCTGTT
TTTGATGATGAGGAGAAGTCCAAGCTTTTAGCCAAGCTGCTGAAAAGCAAAAACCCAGATGACCTGCAG
GAGGCCAACAAAGCTCATCAAGTCCATGGTGAAGGAAGACGAGGCACGGATCCAGAAGGTGACCAAGCGT
CTGCACACGTTAGAGGAAGTTAAACAACAACGTGAGACTGCTCAGTGAGATGCTGCTTCATTACAGCCAG
GAGGACTCTTCGGACGGGACAGAGAGCTGATGAAGGAGCTGTTGATCAGTGTGAGAACAAGAGGCGG
ACTTTATTTAAACTCGCCAGTGAGACTGAGGACAATGATAACAGTTTGGGGACATCCTGCAAGCCAGT
GACAACCTCTCCGGGTCACTCTTACAAAACAATTATTGAAGGGCAGGTATCAATGGCGAGGTG
GCTACCTTAACCTGCCTGACTCGGAAGGAAACAGTCAAGTGCAGTAACCAAGGCACGCTCATCGACCTT
GGGAGCTGGACACGACCAACAGTTTGTCTCCGTGTTGGCCCCAGCACCTACTCCACCCTCCTCAGGC
ATCCCAATCCTCCCTCCACCACCCAGGCTCAGGACCTCCACGGAGCCGCTCCTTAGCCAGGCCGAG
GCCACCCTGGGGCCAGCAGCACAAAGCAACGCCCTCTCCTGGCTGGACGAGGAGCTACTCTGCTTGGGC
CTCGCCGACCCAGCCCTAATGTTCTCCCAAAGATCAGCTGGGAACAGCCAGTGGCACCTGCTCCAG
AGGGAACAGTCCGACCTGGACTTCTTACGCCCCAGGCCGGGACCGCTGCCTGTGGCGCCTCCGATGCT
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CCTGTGGTCCCAGCCAGTGTCTGCCCCAGTGGGGCTCCTCCTTGTCTTACTGGAGTGGCCCCA
GCCTTGGCCCCAAAAGTTGAGCCCGCAGTCCCTGGCACCATGGCTTGGCGTTGGGAACAGCGCGCTG
CACCACTGGATGCCCTCGATCAGCTTCTAGAAGAGGCCAAAGTGACCTCGGGCTTGGTGAACCCACT
ACCTCCCCTCTCATCCCCACCACCACCCAGCCAGGCCCTCCTGCCCTTCTCCAGGGGCCCGGCAGC
CCGCTCTTCCAGCCACTGAGTTTCCAGTCCAGGGCAGCCCCCGAAGGGGCTGAGCTCTCCTTGCC
AGCATCCACGTGCCCTGGAATCGATCAAGCCTAGCAGTGCCCTTCTGTGACAGCTACGATAAAAAAC
GGCTTCCGCATCTCTTCCACTTGGCAAGGAGTGTCCCCAGGACGACCTGACGTGCTGGTGGTGGTG
GTGTCCATGCTGAACACGGCTCCCTTACCTGTCAAGAGCATCGTGTGCAGGCTGCAGTGCCCAAGTCA
ATGAAAGTGAAGTTGCAGCCACCTTCTGGGACAGAAGTCTCTCCATTTAGCCCCATCCAGCCACCTGCA
GCCATCACCCAGGTGATGTTGCTGGCCAACTCACTGAAGGAGAAGGTGCGGCTTCGGTATAAGCTGACC
TTCGCCCTGGGGGAGCAGCTGAGCACAGAGGTGGGCGAGGTGGACCAGTTCCTCCTGTGGAACAGTGG
GGGAACCTATGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI

**Plasmid Map:**


**ACCN:** NM\_001291642

**Insert Size:** 1806 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).

**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\\_001291642.1](#)

**RefSeq Size:** 3689 bp

**RefSeq ORF:** 1806 bp

**Locus ID:** 23163

**UniProt ID:** [Q9NZ52](#)

**Cytogenetics:** 17q25.1

**Protein Families:** Druggable Genome

**Protein Pathways:** Lysosome

**MW:** 64.2 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 (4) contains alternate 5' exon structure, and it thus differs in its 5' UTR and initiates translation at a downstream in-frame start codon, compared to variant long. The encoded isoform (3) is shorter at the N-terminus, compared to isoform long.