

Product datasheet for **SC126986**

GGA2 (NM_138640) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GGA2 (NM_138640) Human Untagged Clone
Tag:	Tag Free
Symbol:	GGA2
Synonyms:	ADP-ribosylation factor binding protein 2; FLJ20966; golgi associated, gamma adaptin ear containing, ARF binding protein 2; KIAA1080; VEAR; VEAR, FLJ20966, KIAA1080; VHS domain and ear domain-containing protein
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_138640, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGCGACCGCGGTGGCGGGCTGTGGCGGGAACCGAGTCGGCCCAGGGTCCCCGGGGCCGGCAG
CGTCGCTGGAGCTGTGGCTGAACAAAGCCACAGACCCAAGCATGTCGGAACAGGATTGGTCAGCTATCCA
GAATTTCTGTGAGCAGGTGAACACTGACCCCAATGGCCCCACACATGCGCCCTGGCTACTGGCCACAAG
ATCCAGTCTCCGCAAGAGAAGGAAGCTCTTTATGCCTTAACGGTGTGGAGATGTCATGAACCACTGTG
GGGAGAAGTTCCACAGCGAGGTGGCCAAATTCGTTTCCTGAACGAACTGATCAAAGTGTGTCCCCAAA
GTACCTGGGGTCTCTGGCCACAGGAAAAGTTAAAGGAAGAGTCATTGAAATACTCTTCAGTTGGACAGTC
TGGTTTCCGGAAGACATCAAGATTCGAGACGCTTATCAGATGCTGAAGAAACAAGGAATTATAAAACAAG
ACCCTAACTACCAGTGGATAAAATCTTACCCCAACCATCTCCCTGGCCCAAGAGCTCCATCTTTGATGC
TGATGAAGAAAAGTCCAAGCTCTTCTCAGTGCCAGTGAGCCCGGCCCTATCCATTTTCCATCCACCATG
AACTCCCAACCGTTATTCCTTGGACATCAGTATCTAG
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_138640 unedited
 GGAAGCGTCAAATTTTGTATACGACTACTATAGGGCGGCCGGAATTCGCACGAGGCCA
 GGACGCTACAGCGGCTGAAGAGGCAGTGGCGCCCGCGCCGACGCTCGGGGCTGGAGCG
 ATGGCGGCGACCCGGTGGCGCGGCTGTGGCGGGAACCGAGTCGGCCAGGGTCCCCCG
 GGCCCGCAGCGTCGCTGGAGCTGTGGCTCAACAAAGCCACAGACCCAAGCATGTCGGAA
 CAGGATTTGGTCAGCTATCCAGAATTTCTGTGAGCAGGTGAACACTGACCCCAATGGCCCC
 ACACATGCGCCCTGGCTACTGGCCACAAGATCCAGTCTCCGAAGAGAAGGAAGCTCTT
 TATGCCTTAACGGTGTGGAGATGTGCATGAACCACTGTGGGGAGAAGTTCCACAGCGAG
 GTGGCCAAATTTCTGTTTCTGAACGAACTGATCAAAGTGTGTCCCAAAGTACCTGGGG
 TCCTGGGCCACAGGAAAAGTTAAAGGAAGATCATTGAAATACTCTTCAGTTGGACAGTC
 TGGTTTCCGGAAGACATCAAGATTCGAGACGCTTATCAGATGCTGAAGAAAACAAGGAATT
 AAAAAACAAGACCCTAACTACCAGTGGATAAAATCTTACCCCCACCATCTCCCTGGCCC
 AAGAGCTCCATCTTTGATGCTGATGAAGAAAAGTCCAAGCTTCTGACAAGGCTTCTAAAG
 AGCAACCACCCCGAGGACCTTCAGGCTGCAAACCGGTTAATCAAGAATTTGGTCAAGGAG
 GAACAAGAAAAATCGGAGAAGGTGTCCAAGAAGTTCAGTGGGTTGNGAGAAGTGCGAAGC
 CATGTGAAGTGTGTCNAGAGATGCTGAGCATGTACCGCAGGCCAGGGCAGGCC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_138640 unedited
 TTGGCCGCGCCGCAATCTAGATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
 TTTTTTTTTTTTTTTTTTTTTTTTTTTAAAATATCAGATTTTGGAAATAAAAGCTCCAAACAA
 GTTTTGCAGTTTCAAAGGGAAAAACCCACCCAGCCAGTTCAGTTGGTTGGACTTAAAAGC
 CCTCCGCTAGCCATTTAAGCCAGGCTAAGTTCTTTTCCCACCCATCAGGCCAAGCAG
 GACTTGGCAAACATACACATTCAAGTTCCTAACACACAGTAGGGGCTAAGGGGAATTGA
 TTATAAAGTTGAATTTTCCATCAACAAATATCCACCTTCTCCTGTCAGCTTGCCTAAAA
 TTTTAAGTTTTTTTTTTTTTTGAGGCAGCTAAGCTTCTACATCCCTTCATGAAGTTTCCTT
 TACTTTTCGACAAAAACAGTTCCTTTAGGCCTATCATTTTTAAAGGCAACTGGTTTTTC
 CATTTCCTACTCAACACTCCACAAAGAACACTTGCTACATGGTATTTATTCAAGGA
 CTGGATATTTAGTCACCACCTCAATCACTGCTAAGCTCTCTTCATGGCTATCTGTACCAG
 TTTCCATTTTAACTGGGACGTCAACTGGCAAGGGCTGGTTGTTGGCCAATTCATCATG
 ACTGACATGGTGGGTACAAAGAAGCCTCCATAAAATGCTGTGAAGGAAAAGGATGAGGA
 TGGAAATGAGGATCCTTGAAGCCCAATACTGGTTGCCCAACCATGGACCTGAGGCCTG
 AATAAGGCCTTGGAACTGTTTTCCCTTTTGCCAAGAACTTTGTCAGGGGCGATTTAAAG
 GCCAAGGGGAGAAGCAATGATTGGCCCCAGGGGGGCTCAGGTTTATGGCAGCCACTC
 CCTGGAGACGGGGACAAGCATCTATTAATAAAGTTCACAAACCACACAAAACCTTTGG
 TTATGAAAG

Restriction Sites:

NotI-NotI

ACCN:

NM_138640

Insert Size:

3630 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_138640.1](#), [NP_619581.1](#)

RefSeq Size: 5078 bp

RefSeq ORF: 669 bp

Locus ID: 23062

Cytogenetics: 16p12.2

Domains: GAT, Alpha_adaptinC2

Protein Pathways: Lysosome

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. This family member may play a significant role in cargo molecules regulation and clathrin-coated vesicle assembly. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (2) contains an additional exon between exons 6 and 7 and lacks a downstream sequence segment, as compared to the longer transcript variant 1. This variant encodes isoform 2 which includes an early in-frame stop codon, resulting in a truncated protein.