

Product datasheet for **SC114703**

GGA2 (NM_015044) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GGA2 (NM_015044) Human Untagged Clone
Tag:	Tag Free
Symbol:	GGA2
Synonyms:	VEAR
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC114703 sequence for NM_015044 edited (data generated by NextGen Sequencing)

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ATGGCGGCGACCGCGGTGGCGCGGCTGTGGCGGGAACCGAGTCGGCCCAGGGTCCCCCG
GGCCCCGCGAGCGTCGCTGGAGCTGTGGCTCAACAAAGCCACAGACCCAAGCATGTCGGAA
CAGGATTGGTCAGCTATCCAGAATTTCTGTGAGCAGGTGAACACTGACCCCAATGGCCCC
ACACATGCGCCCTGGCTACTGGCCACAAGATCCAGTCTCCGCAAGAGAAGGAAGCTCTT
TATGCCTTAACGGTGCTGGAGATGTGCATGAACCACTGTGGGGAGAAGTCCACAGCGAG
GTGGCCAAATTTCTGTTTCTGAACGAAGTATCAAGTGTGTGCCCAAAGTACCTGGGG
TCTGGGCCACAGGAAAAGTTAAAGGAAGATCATTGAAATACTCTTCAGTTGGACAGTC
TGGTTTCCGGAAGACATCAAGATTTCGAGACGCTTATCAGATGCTGAAGAAAACAAGGAATT
ATAAAAACAAGACCCTAAACTACCAGTGGATAAAATCTTACCCCCACCATCTCCCTGGCCC
AAGAGCTCCATCTTTGATGCTGATGAAGAAAAGTCCAAGCTTCTGACAAGGCTTCTAAAG
AGCAACCACCCGAGGACCTTCAGGCTGCAAACCGTTAATCAAGAATTTGGTCAAGGAG
GAACAAGAAAAATCGGAGAAGGTGTCCAAGAGGGTCAGTCCGGTGGAGGAAGTCCGAAGC
CATGTGAAGGTGCTGCAGGAGATGCTGAGCATGTACCGCAGGCCAGGGCAGGCCCGCCC
GACCAGGAGGCCCTGCAGGTCGTGTATGAGAGGTGTGAAAAGCTGCGGCCACGCTGTTC
CGTTGGCGAGTGACACCACTGATGACGATGATGCACTCGCGGAAATTCTCCAGGCAAAT
GACCTCTCACCAAGGAGTTCTGCTGTACAAACAGGTGATGGAGGGCCGGGTCACCTTT
GGAAACAGAGTGACCAGCTCATTGGGAGACATCCCTGTCTCCAGAGTCTTTCAGAATCCA
GCAGGCTGCATGAAGACCTGCCCCCTGATTGACTTGGAGGTGGACAATGGACCTGCGCAG
ATGGGGACTGTGGTGCCATCTTTGCTTCATCAGGACCTGGCAGCCTTGGGAATCAGTGAT
GCTCCTGTTACAGGCATGGTTTCTGGTCAGAATTGCTGTGAGGAAAAGAGGAATCCCTCC
TCCAGCACGCTGCCAGGCGGTGGTTCAGAACCCTTCTGCAGACAGGAATTTGCTGGAC
CTCCTCTCAGCACAGCCAGCTCCGTGCCCTCTGAATTATGTTTCGACAGAAAAGTGCCCC
AAGGAAGTGCCACCAGGTAAGTCTCTCCAGGTTGGTCTGGGAGGCTGGCCCGTTG
GCTCCTTCCCCATCTTACAGAATAACCTCTGGCTCAAGTGTGTTGTCCTTTGGAGTCT
GTTAAGCCAGCAGCCTGCCGCTCTCATTGTGTATGACCGGAATGGATTGAGAATCTG
CTCCACTTCTCCAGACGGGAGCCCTGGGCACCCAGAGGTACAGGTGCTGCTCTTGACC
ATGATGAGCACGGCTCCCAGCCTGTCTGGGATATCATGTTTCAAGTGGCTGTGCCAAAG
TCAATGAGAGTGAAGCTGCAGCCGCATCCAGCTCCAAGCTTCTGCATTGAGTCTTTG
ATGCCTCAGCTGTGATATCTCAGATGCTGCTGTTGACAATCCACAAAAGAACCTATC
CGCTTACGGTACAAGCTGACATTCAACCAAGGTGGACAGCCTTTCAGCGAAGTAGGAGAA
GTGAAAGACTTCCAGACCTGGCTGTCTTGGGCGCAGCCTAA
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Clone variation with respect to NM_015044.4

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_015044 unedited TAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGCAGAGGAGAGCGCCAGG ACGCTACAGCGGCTGAAGAGGCAGTGGCGCCCGCGCCGACGCTCGGGGCTGGAGCGAT GGCGGCGACCGCGGTGGCGGCGGCTGTGGCGGGAACCGAGTCGGCCAGGGTCCCCGGG CCCGGCAGCGTCGCTGGAGCTGTGGCTCAACAAAGCCACAGACCCAAGCATGTGGAACA GGATTGGTCAGCTATCCAGAATTTCTGTGAGCAGGTGAACACTGACCCCAATGGCCCCAC ACATGCGCCCTGGCTACTGGCCACAAGATCCAGTCTCCGCAAGAGAAGGAAGCTTTTA TGCTTAAACGGTCTGGAGATGTGCATGAACCACTGTGGGAGAAAGTTCCACAGCGAGGT GGCCAAATTTCTGTTTCTGAACGAACTGATCAAAGTGTGTCGCCAAAGTACCTGGGGTC CTGGGCCACAGGAAAAGTTAAAGGAAGAGTCATTGAAATACTCTTCAAGTTGGACAGTCTG GTTCCGGAAGACATCAAGATTCGAGACGCTTATCAGATGCTGAAGAAACAAGGAATTAT AAAACAAGACCCTAAACTACCAGTGGATAAAATCTTACCCCAACCATCTCCCTGGCCAA GAGCTCCATCTTTGATGCTGATGAAGAAAAGTCCAAGCTTCTGANCAGGCTTCTAAAGAG CAACCCNCCCGAGGACCTTCAGCTGCANACCGGTTATCAAGAANTTNTGGTCAGGGAG GACAAGAAANATCGCGANAAGGTGTCCAGAAAGGTCACTGCGCGTGAAGAAAGTGGCAAC TTTTTTAAAGGTGCTGCAAGAAATGCTGAGCTTTNACCCGAGCCCAAGGGCAGGCCCCG CGAACAGAGCGCCCTCCNAGGTCTGTTTTTAAAGAAGGGTGATAGCTGCGCCACCCCTT TTCGCGGTTGGAG</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_015044 unedited ACCGCGGCCGCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTGTAAAAATATCAGATAT TGTAATTAAGAGCTCAAACAAGTCTTGCAGTTTCAAAGGTAGAAACCCACCCAGCCAGT TCAGCTGCTTGGACTTCAAAGCCCTCCGCTAGCCATCTCAGCCAGGCTCAGGTTCCCTC TCCACCCATCAGGCCAAGCAGGACTTGTCAAACATACACATTCAAGTTCCTAGCACACA GTAGGTGCTAAGTGGGAATTGATTATAAACTTGAATTCTTCCATCAACAAATATCTACCT CTCCTGTCCAGCTTGCCCTCAGATCTTCAAGTCTCTCTTCTGAGGCAGCTAAGCTTCT ACATCCTTCATGAAGTTTCTTTACTTCTCGACAGAAGACAGTTCCTTTAGGCCTATCA TCTCTAAATGCAACTGGCTTTCCATTTCCACTACTCAACACTCCACAAAGTACACTTG CTACATGGTATTTATTCAATGACTGTATATTTAGTACCACCTCAATCACTGCTAAGCTC TCTTCATGTCTATCTGTACCAGTTTCCCATCTTANACTGTGACGTCAGCTGGCAAGGGT GGCTGTTGGCCGATTTCATCATGACTGACATGGTGTGTCACAAAGAGCTCCAAGTAAATGC TGTGAAGGAAGAGGATGAGGATGGAGATGAGGATCCTGAGAGGGCCAAACTGGCTGCC AACCCATGGACCTGAAGCCCGAGTCAAGCCTCGGAGCTGTTTTCCCTCTGCCAAGGAACT NTTGTCAGGGGCCGATTTAAAGCCCATGGGGAGAGGACCTGATGGCCCCCCATGGGGG CCTCAAGCCTCATGCGACCCCTCGCTGGGAACGGGGAACAAGTTTCCCTTTAAAGAATT TCCACAACCCAGAAACTTGCCTAGGAAAAGGGACCG</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_015044
Insert Size:	3410 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:	<ol style="list-style-type: none">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_015044.2 , NP_055859.1
RefSeq Size:	5163 bp
RefSeq ORF:	1842 bp
Locus ID:	23062
UniProt ID:	Q9UJY4
Cytogenetics:	16p12.2
Domains:	VHS, GAT, Alpha_adaptinC2
Protein Pathways:	Lysosome
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (1), as compared to transcript variant 2.</p>