

Product datasheet for **RR209440**

Golga2 (NM_022596) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Golga2 (NM_022596) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Golga2
Synonyms:	Gm130
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR209440 representing NM_022596 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGGCCCCCGCTTCCCCCTCCCCGCCCGGGATGTCGGAAGAAACCAGGCAGAGCAAATTGGCTG
CGGCCAAGAAAAAGCTGAGAGAGTATCAGCAGAAGAACAGCCCGGGTGTCCCTGCAGGAGCAAAGAAGAA
GAAAAAGATTAATAATGGCCATAGTCCAGAGAGAACCTCTGCCAGTGATTGTCAGTCAGCAGAGAATGTG
CCCACAGACCACACTGCTCCTGCACCACCAAGTACTGCTGCTGCCACTATGTTTCTTGGTGTGTCGCCCTT
CCCCCGATGCTGATCTCATTAGAGCCAGGATGCTGGCAATTGCTCTAACCTCATGGAGGAGACCAAGAC
TTTCTCATCGACTGAGAGTCTGCGACAACCTTTCTCAACAGCTCAATGGCCTTGTGTCTGAGTCTACATCC
TACATCAACGGGGAGGGCCTCACGTCTTCCAACATGAAGGAACTGGAGAGCCGGTACCAAGAGCTAGCAG
TAGCCCTGGACTCCAGCTATGTAACAAACAAACAACCTCAGTAGCACGATAGAGGAATTGAAGCAACAGAA
CCAAGACACTCTGGATCAACTGGAAAAAGAGAAGAAGGATTATCAGCAGAAGCTGGCAAAGGAGCAGGGT
GCCCTCAGGGAACAACCTGAGGTTACATTAGACCATAGGCATCCTGGTGTCTGAGAAGGCAGAAATTAC
AGACAGCTCTGGCCACACTCAGCAAGCAGCTAGGCAGAAAGCAGGAGAGTCCGGAGGATCTTGCCAGCCG
TCTACAGTCTCCCGACAGCGTGTGGGAGAGCTGGAGCGGACGTTGTCTACTGTGTCGACGCAGCAGAAA
CAGGCAGACAGGTACAACAAGGACCTAACCAAGAGCGAGAGCCCTCAAGCTGGAGCTATACAAGAATG
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GAAAGCAGCTGCACAGTTGGGGCAGAGGAGCTGCAGAAGAAGTTAGAGATGTCAGAGCTGCTGCTGCAA
CAGTTCTAGCCAATCTGAGGCTTCTGGCAGTAATGAGCAGTTGCAACAGGCCATGGAGGAGCGGGCTC
AGCTGGAGAGCCATGTTGGCCAGCTGATGGAGTCACTGAAACAGCTCCAGGTGGAGAGAGACCAGTACGC
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AGAGGTTGAGCAGCTGCAGAAGGAACTGGAGGGTCTGACGGGTACAGTGCAGGGCCAGGTGCAGGACAAT



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GAGAGCCTGAGCCACCTGAACCGGGAGCAGGAGGGACGGCTGCTGGAGCTGGAGCGCAGGCCAGCACT
 GGAGCGAGCAGGCAGAGGAGCGCAAGCAGATCCTGGAGAGCATGCAGAGTGACCGCACCACCATCAGCAG
 AGCGCTGTACAGAAATCGCGAGCTCAAGGAGCAGCTGGCTGAGCTGCAGAACGGCTTCGTGAGGCTGACA
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 GCTTGTGAACGAGCGCAATGAATGGCAGGGCAAGTTCTGGCCGTGTCTCAGAACCCTGCTGATGTGCT
 GCCCAGTGCCACAGGCTCCCAGGAATTTGGCGCTGCTGACCAGCAAGACCTCAGGGAGGTGAGCCTGG
 CTGACGATACAGAGCCTGCACAAGGAGAGGCAGGGGTACCCGCTCCCCAGGAGAACCCACTGCACAACA
 GATCATGCAGCTGCTGCGTGAGATCCAGAACCCAGGAGCGCCAGGCTGGGTAGCAACCCTTGATC
 CCCTTTTCTACCGTGCGGATGAGAACGACGAGGTGAAAATCATGGTTATA

ACGCGTACGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAGGTTTAA

Protein Sequence:

>RR209440 representing NM_022596
 Red=Cloning site Green=Tags(s)

MWPPRFPPPRPGMSEETRQSKLAAAKKLRREYQKNSPGVPAGAKKKKIKNGHSPERTSASDCQSAENV
 PTDHTAPAPPSTAAATMFLGVVSPDADLIQSHDAGNCSNLMEETKTFSSTESLRQLSQQNLGLVSESTS
 YINGEGLTSSNMKELESRYQELAVALDSSYVTNKQLSSTIEELKQONQDLDQLEKEKDYQKLAKEQG
 ALREQLQVHIQTIIGILVSEKAELQTAHTQQAARQKAGESEDLASRLQSSRQRVGELETLSTVSTQQK
 QADRYNKDLTKERDALKLELYKNGKSNEDLRQNSELEEKLRVLVAEKAAQLGAEELQKKLEMSLELLQ
 QFSSQSEASGSNEQLQQAMEERAQLESHVGQLMESLKQLQVERDQYAENLKGESAMWQQRVQMAEQVHA
 LKEEKEQRESQVQLEASLAELRSQMEEPPPEPPTGPSEAEERLQGEVEQLQKELEGLTGQLRAQVQDN
 ESLSHLNREQEGRLLELERAQHWSEQAERKQILESMQSDRTTISRALSQNRELKEQLAELQNGFVRLT
 NENMEITSALQSEQHVKELARKLGELQERLGELKETVELKSQEAQQLQEQRDQCLSHLQYAAAAYQHL
 TAYEQLTSEKEALHKQLLLQTQLMDQLQHEEVQGMMAEMARQELQEAQERLKASSQENQQLQAQLSLLV
 LPGEDMDQEEQDEEVPQPSLTIPEDLVSREAMVAFNAATARAEEEQARLRVQLREQKARCRLAHLAAP
 VQSKLEKEAVVPRDMGDSVSEESNQALHVAMEKLQNRFLVEMQEKVELKERVEELEHCCIQLSGETDTIG
 EYIALYQNRQAVLKARHLEKEEYISRLAQDKEEMKVLLELQELVLRVNERNEWQKFLAVSQNPADV
 APVPTGSQEFGAADQDLREVSLADDTEPAQGEAGVPAPQENPTAQQIMQLLREIQNPQERPGLGNSPCI
 PFFYRADENDEVKIMVI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_022596

ORF Size: 2991 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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).

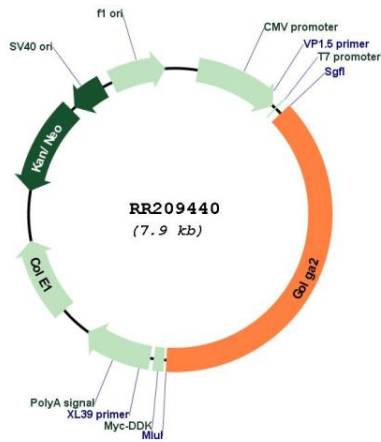
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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_022596.2](#), [NP_072118.2](#)

RefSeq Size: 4367 bp

RefSeq ORF: 2994 bp
 Locus ID: 64528
 UniProt ID: [Q62839](#)
 Cytogenetics: 3p12
 MW: 112.8 kDa
 Gene Summary: a protein of the cis-Golgi matrix and may have a role in maintaining cis-Golgi structure [RGD, Feb 2006]

Product images:



Circular map for RR209440