

## Product datasheet for RC209641

### GM130 (GOLGA2) (NM\_004486) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GM130 (GOLGA2) (NM_004486) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GM130
Synonyms:	GM130
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC209641 representing NM_004486 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTGGCCCCAACCCCGCTCCCTCCCCGCCCGCGATGTCGGAAGAAACCCGACAGAGCAAATTGGCCG  
CAGCGAAGAAAAAGTTGAGAGAATATCAGCAGAGGAATAGCCCTGGTGTCTACAGGAGCGAAAAAGAA  
GAAGAAAAATAAAAAATGGCAGTAACCCCTGAGACAACCCTTCTGGTGGTTGCCACTCACCTGAGGATACA  
CCCAAGGACAATGCTGCTACTCTACAACCATCTGATGACACCGTGTACCTGGCGGTGTCCCTTCCCTG  
GTGCCAGTCTCACTAGCATGGCGGCATCTCAGAATCATGATGCTGACAATGTCCCTAATCTCATGGATGA  
AACCAAGACTTTCTCATCAACCGAGAGCCTGCGACAACCTCTCCAACAGCTCAATGGTCTTGTGTGAG  
TCTGCGCATGTGTCAATGGGGAGGGCCCTGCATCGTCTGCTAACCTGAAGGATCTGGAGAGCCGGTACC  
AACAGCTAGCGGTAGCCCTGGACTCCAGCTATGTAACAAACAAACAACTCAATATCACGATAGAGAAATT  
GAAACAACAGAACCAAGAAATTACGGATCAGTTGGAAGAAGAAAAGAAAGATGCCACAAAAGCAGGGA  
GCCCTAAGGGAGCAGTTACAGGTTACATTCAGACCATAGGGATCCTCGTATCAGAGAAAGCTGAGTTAC  
AGACAGCCCTGGCTCACACTCAGCATGCTGCCAGGCAGAAAGAAGGAGAGTCTGAAGATCTGGCCAGCCG  
CCTGCAGTATCCCGCGCGCTGTGGGAGAGTTGGAGCGGGCTCTCTGCTGTCTCCACGCAGCAGAAG  
AAGGCAGACAGGTACAACAAGGAGTTAACCAAGAGAGAGAGAGCCCTCAGGCTGGAGTTATACAAGAACA  
CCCAAAGCAATGAGGACCTGAAGCAAGAGAAATCAGAATTGGAAGAGAAGCTTCGGGTCTAGTGACTGA  
GAAGGCTGGCATGCAGCTTAACCTGGAAGAATTGCAAAAGAAGTTAGAGATGACGGAACCTCTGTTCAA  
CAGTTTTCAAGCCGGTGTGAAGCCCTGATGCTAACCCAGCAGTTACAGCAGGCCATGGAGGAGCGGGCAC  
AGCTGGAAGCACACCTGGGGCAGGTAATGGAGTCGGTTAGACAACATAAATGGAGAGAGATAAATATGC  
GGAGAATCTCAAAGGAGAGAGCGCCATGTGGCGGCAGAGGATGCAGCAGATGTCAGAGCAGGTGCACACA  
TTGAGAGAGGAGAAGGAATGTAGCATGAGTCGGGTACAGGAGCTGGAGACGAGCTTGGCTGAACTGAGGA  
ACCAGATGGCTGAACCCCGCCCCAGAGCCCCAGCAGGGCCCTCCGAGGTGGAGCAGCAGCTACAAGC  
GGAGGCTGAGCACCTGCGGAAGGAGCTGGAGGGTCTGGCAGGACAGCTTCAAGCCAGGTGCAAGACAAT



[View online >](#)

GAGGGCTTGAGTCGCCTGAACCGGGAGCAGGAGGAGAGGCTGCTGGAGCTGGAGCGGGCGGCCGAGCTCT  
 GGGGGAGCAGGCGGAGGCGCGCAGGCAATCCTGGAGCCATGCAGAACGACCGCACTACCATCAGCCG  
 CGCACTCTCCCAGAACCGGGAGCTCAAGGAGCAGCTGGCTGAGCTGCAGAGCGGATTTGTAAGCTGACT  
 AATGAGAACATGGAGATCACCAGCGCACTGCAGTCGGAGCAGCACGTCAAGAGGGAGCTGGGAAAGAAGC  
 TGGGCGAGCTGCAGGAGAAGCTGAGCGAGCTGAAGGAAACGGTGGAGCTGAAGAGCCAAGAGGCTCAAAG  
 TCTGCAGCAGCAGCGAGACCAGTACCTGGGACACCTGCAGCAGTATGTGGCCGCCTATCAGCAGCTGACC  
 TCTGAGAAGGAGGTGCTGCATAATCAGCTACTGCTGCAGACCCAGCTCGTGGACCAGCTGCAGCAGCAGG  
 AAGCTCAGGGCAAAGCGGTGGCCGAGATGGCCCGCAAGAGTTGCAGGAAACCCAGGAGCGCCTGGAAGC  
 TGCCACCCAGCAGAATCAGCAGCTACGGGCCAGTTGAGCCTCATGGCTCACCTGGGGAAGGAGATGGA  
 CTGGACCGGGAGGAGGAGGAGGATGAGGAGGAGGAGGAGGAGGAGGCGGTGGCAGTACCTCAGCCCATGC  
 CAAGCATCCCGGAGGACCTGGAGAGCCGGGAAGCCATGGTGGCATTTCCTCAACTCAGCTGTAGCCAGTGC  
 CGAGGAGGAGCAGGCAAGGCTACGTGGCAGCTGAAGGAGCAAAGGGTGCCTGCCGGCGCCTGGCTCAC  
 CTGCTGGCCTCGGCCAGAAGGAGCCTGAGGCAGCAGCCAGCCAGGGACCGGGGGTATTCTGTGT  
 GTGGGAGACCCACCGGCCCTGCAGGGGCCATGGAGAAGCTGCAGAGCCGCTTTATGGAGCTCATGCA  
 GGAGAAGCAGACCTGAAGGAGAGGGTAGAGGAACTGGAACATCGCTGCATCCAGCTTTCTGGAGAGACA  
 GACACCATTGGAGAGTACATTGCACTGTACCAGAGCCAGAGGGCAGTGTGAAGGAGCGGACCGGGAGA  
 AGGAGGAGTACATCAGCAGGCTGGCCAAAGACAAGGAGGAGATGAAGGTGAAGCTGCTGGAGCTGCAGGA  
 GCTGGTCTTACGGCTTGTGGCGACCGCAACGAGTGGCATGGCAGATTCTGGCAGCTGCCAGAACCCCT  
 GCTGATGAGCCACTTCAGGGGCCAGCCCCAGGAACTTGGGGTGCCAACCAGCAGGGTGTCTTT  
 GCGAGGTGAGCCTCGCCGGCAGTGTGGAGCCTGCCAAGGAGAGGCCAGGGAGGGTTCTCCCGTGACAA  
 CCCCCTGCACAGCAGATCATGCAGCTGCTCGTGAGATGCAGAACCCCGGGAGCGCCAGGCTTGGGC  
 AGCAACCCCTGCATTCTTTTTTTTACCGGGCTGACGAGAATGATGAGGTGAAGATCACTGTCATC

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGTTTAA

**Protein Sequence:**

>RC209641 representing NM\_004486  
 Red=Cloning site Green=Tags(s)

MWPQRLPPRPAMSEETRQSKLAAAKKRLREYQQRNSPGVPTGAKKKKIKNGSNPETTTSGGCHSPEDT  
 PKDNAATLQPSDDTVLPGGVPSGASLTSMAASQNHADNVPNLMDETKTFSSTESLRQLSQQNLGLVCE  
 SATCVNGEGPASSANLKDLESRYQQLAVALDSSYVTNKQLNITIEKLLKQNNQIEITDQLEEEKKECHQKQG  
 ALREQLQVHIQTIGILVSEKAELQTLAHTQHAARQKEGESEDLASRLQYSRRRVGELERALSASTQKQK  
 KADRYNKELTKERDALRLELYKNTQSNEDLKQEKSELEELRVLVTEKAGMQLNLEELQKKLEMTLLLQ  
 QFSSRCEAPDANQQLQAMEERAQLEAHLGQVMESVRQLQMERDKYAENLKGESAMWRQRMQMSEVHT  
 LREEKECSMSRVQELQSLAELRNQMAEPPPEPPAGPSEVEQQLQAEAEHLRKELEGLAGQLQAQVQDN  
 EGLSRLNREQEERLLELERAELWGEQAEARRQILETMQNDRTTISRALSQNRELKEQLAELQSGFVKLT  
 NENMEITSALQSEQHVKRELGKKLGELQEKLSELKETVELKSQEAQSLQQQRDQYLGHLLQYVAAAYQQLT  
 SEKEVLHNQLLLQTLVDQLQQQEAQGKAVAEMARQELQETQERLEAATQQNQQLRAQLSLMAHPGEGDG  
 LDREEEEDDEEEEEEAVAPQPMPSIPEDLESREAMVAFFNSAVASAEQARLRGQLKEQRVRCRRLAH  
 LLASAQKEPEAAAPAGTGGDSVCGETHRALQGAMEKLSRFMELMQEADLKERVEELEHRCIQLSGET  
 DTIGEYIALYQSQRVAVLKERHREKEYISRLAQDKEEMVKLLELQELVLRVLDGRNEWHGRFLAAQNP  
 ADEPTSGAPAPQELGAANQQGDLCEVSLAGSVEPAQGEAREGSPRDNPTAQQIMQLLREMQRPRERPLG  
 SNPCIPFFYRADENDEVKITVI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8119\\_f11.zip](https://cdn.origene.com/chromatograms/mk8119_f11.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_004486

**ORF Size:** 3006 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_004486.4](#), [NP\\_004477.3](#)

**RefSeq Size:** 4304 bp

**RefSeq ORF:** 3009 bp

**Locus ID:** 2801

**UniProt ID:** [Q08379](#)

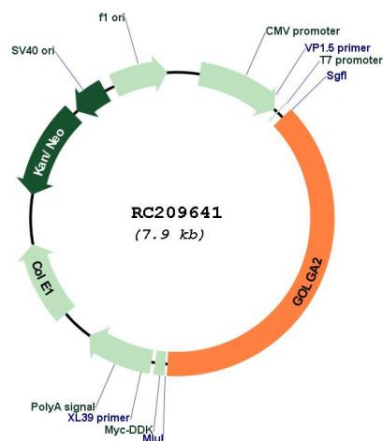
**Cytogenetics:** 9q34.11

**Domains:** M

**MW:** 113.5 kDa

**Gene Summary:** The Golgi apparatus, which participates in glycosylation and transport of proteins and lipids in the secretory pathway, consists of a series of stacked cisternae (flattened membrane sacs). Interactions between the Golgi and microtubules are thought to be important for the reorganization of the Golgi after it fragments during mitosis. This gene encodes one of the golgins, a family of proteins localized to the Golgi. This encoded protein has been postulated to play roles in the stacking of Golgi cisternae and in vesicular transport. Several alternatively spliced transcript variants of this gene have been described, but the full-length nature of these variants has not been determined. [provided by RefSeq, Feb 2010]

### Product images:



Circular map for RC209641