

## Product datasheet for **RG209641**

### **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:	TurboGFP
Symbol:	GM130
Synonyms:	GM130
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG209641 representing NM\_004486  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCGGAAGAAACCCGACAGAGCAAATTTGCCGCGAGCGAAGAAAAAGTTGAGAGAATATCAGCAGAGGA  
 ATAGCCCTGGTGTTCCTACAGGAGCGAAAAAGAAGAAAAATAAAAAATGGCAGTAACCCCTGAGACAAC  
 CACTTCTGGTGGTTGCCACTCACCTGAGGATACACCCAAGGACAATGCTGCTACTCTACAACCATCTGAT  
 GACACCGTGTACCTGGCGGTGTCCCTTCCCCTGGTGCCAGTCTCACTAGCATGGCGGCATCTCAGAATC  
 ATGATGCTGACAATGTCCCTAATCTCATGGATGAAACCAAGACTTTCTCATCAACCGAGAGCCTGCGACA  
 ACTCTCCCAACAGCTCAATGGTCTTGTGGTGTGAGTCTGCGACATGTGTCAATGGGAGGGCCCTGCATCG  
 TCTGCTAACCTGAAGGATCTGGAGAGCCGGTACCAACAGCTAGCGGTAGCCCTGGACTCCAGCTATGTAA  
 CAAACAAACAACCTCAATATCACGATAGAGAAATTGAAACAACAGAACCAAGAAATTACGGATCAGTTGGA  
 AGAAGAAAAGAAAGAATGCCACCAAAAGCAGGGAGCCCTAAGGGAGCAGTTACAGGTTACATTCAGACC  
 ATAGGGATCCTCGTATCAGAGAAAGCTGAGTTACAGACAGCCCTGGCTCACACTCAGCATGCTGCCAGGC  
 AGAAAGAAGGAGAGTCTGAAGATCTGGCCAGCCGCTGCAGTATTCGCCGGCGCGTGTGGGAGAGTTGGA  
 GCGGGCTCTCTGCTGTCTCCACGCAGCAGAAGAAGGCAGACAGGTACAACAAGGAGTTAACCAAGAGAG  
 AGAGAGCCCTCAGGCTGGAGTTATAACAAGAACACCAAGCAATGAGGACCTGAAGCAAGAGAAATCAG  
 AATTGGAAGAGAAGCTTCGGGTCTAGTGACTGAGAAGGCTGGCATGCAGCTTAACCTGGAAGAATTGCA  
 AAAGAAGTTAGAGATGACGGAACCTCTGCTTCAACAGTTTTCAAGCCGGTGTGAAGCCCTGATGCTAAC  
 CAGCAGTTACAGCAGGCCATGGAGGAGCGGGCACAGCTGGAAGCACACCTGGGGCAGGTAATGGAGTCGG  
 TTAGACAACCTACAAATGGAGAGAGATAAATATGCGGAGAATCTCAAAGGAGAGAGCGCCATGTGGCGCA  
 GAGGATGCAGCAGATGTACAGAGCAGGTGCACACATTTAGAGAGGAGAAGGAATGTAGCATGAGTCGGGTA  
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 CAGGGCCCTCCGAGGTGGAGCAGCAGCTACAAGCGGAGGCTGAGCACCTGCGGAAGGAGCTGGAGGGTCT  
 GGCAGGACAGCTTCAAGCCAGGTGCAAGACAATGAGGGCTTGTGTCGCTGAACCGGGAGCAGGAGGAG  
 AGGCTGCTGGAGCTGGAGCGGGCGGCGAGCTCTGGGGGAGCAGGCGGAGGCGCGCAGGCAAATCTGG  
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 GGCTGAGCTGCAGAGCGGATTTGTAAGCTGACTAATGAGAACATGGAGATCACCAGCGCACTGCAGTCG  
 GAGCAGCAGCTCAAGAGGAGCTGGGAAAGAAGCTGGGCGAGCTGCAGGAGAAGCTGAGCGAGCTGAAGG  
 AAACGGTGGAGCTGAAGAGCCAAGAGGCTCAAAGTCTGCAGCAGCAGCGAGACCAGTACCTGGGACACCT  
 GCAGCAGTATGTGGCCGCTATCAGCAGCTGACCTCTGAGAAGGAGGTGCTGCATAATCAGCTACTGCTG  
 CAGACCCAGCTCGTGGACCAGCTGCAGCAGCAGGAAGCTCAGGGCAAAGCGGTGGCCGAGATGGCCCGCC  
 AAGAGTTGCAGGAAACCCAGGAGCGCTGGAAGCTGCCACCCAGCAGAATCAGCAGCTACGGGCCAGTT  
 GAGCCTCATGGCTCACCTGGGGAAGGAGATGGACTGGACCGGGAGGAGGAGGATGAGGAGGAGGAG  
 GAGGAGGAGGCGGTGGCAGTACCTCAGCCCATGCCAAGCATCCCGGAGGACCTGGAGAGCCGGGAAGCCA  
 TGGTGGCATTTCCTCAACTCAGCTGTAGCCAGTCCGAGGAGGAGCAGGCAAGGCTACGTGGCAGCTGAA  
 GGAGCAAAGGTTGCGCTGCCGGCGCTGGCTCACCTGCTGGCCTCGGCCAGAAGGAGCCTGAGGCAGCA  
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 GGAACATCGTGCATCCAGCTTTCTGGAGAGACAGACACCATTGGAGAGTACATTGCACTGTACCAGAGC  
 CAGAGGGCAGTGTGAAGGAGCGGCACCGGAGAGGAGTACATCAGCAGGCTGGCCCAAGACAAGG  
 AGGAGATGAAGGTGAAGCTGCTGGAGCTGCAGGAGCTGGTCTTACGGCTTGTGGCGACCGCAACGAGTG  
 GCATGGCAGATTCCTGGCAGCTGCCAGAACCCTGCTGATGAGCCACTTCAGGGCCCCAGCCCCCAG  
 GAACTTGGGGCTGCCAACAGCAGGGTGTCTTTGCGAGGTGAGCCTCGCCGGCAGTGTGGAGCCTGCC  
 AAGGAGAGGCCAGGGAGGTTCTCCCCGTGACAACCCACTGCACAGCAGATCATGCAGTCTCTCGTGA  
 GATGCAGAACCCCGGGAGCGCCAGGCTTGGGAGCAACCCCTGCATTCTTTTTTTTACCGGGCTGAC  
 GAGAATGATGAGGTGAAGATCACTGTCATC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG209641 representing NM\_004486  
 Red=Cloning site Green=Tags(s)

MSEETRQSKLAAAKKLEQYQQRNSPGVPTGAKKKKIKNGSNPETTTSGGCHSPEDTPKDNaATLQPSD  
 DTVLPGGVPSGASLTSMAASQNHADNVPNLMDETKTFSTESLRQLSQQNLGLVCESATCVNCEGPAS  
 SANLKDLESRYQQLAVALDSSYVTNKQLNITIEKLNQVQEIITDQLEEEKKECHQKQALREQLQVHIQT  
 IGILVSEKAELQTAHTQHAARQKEGESEDLASRLQYSRRRVGELERALSAVSTQQKKADRYNKELTKE  
 RDALRLELYKNTQSNEDLKQEKSELEEKLRVLVTEKAGMQLNLEELQKKLEMTLELLQQFSSRCEAPDAN  
 QQLQQAMEERAQLEAHLGQVMESYRQLQMERDKYAENLKGESAMWRQRMQMSEQVHTLREEKESMSRV  
 QELETSLAELRNQMAEPPPEPPAGPSEVEQQLQAEAEHLRKELEGLAGQLQAQVQDNEGLSRLNREQEE  
 RLLELERAELWGEQAEARRQILETMQNDRTTISRALSQNRELKEQLAELQSGFVKLTNENMEITSALQS  
 EQHVKRELGKKLGELQEKLSELKETVELKSQEAQSLQQQRDQYLGHLLQYVAAAYQQLTSEKEVLHNQLLL  
 QTQLVDQLQQQEAQKVAEMARQELQETQERLEAATQQNQQLRAQLSLMAHPGEGDGLDREEEDEEEEE  
 EEEAVAVPQMPSPEDLESREAMVAFNSAVASAEQQARLRGQLKEQVRCCRLLAHLASAQKEPEAA  
 APAPGTGGDSVCGETHRALQGAMEKLSRFMELMQEKADLKERVELEHRCIQLSGETDTIGEYIALYQS  
 QRAVLKERHREKEEYISRLAQDKEMKVKLLELQELVLRVVGDRNEWHGRFLAAQNPAPDEPTSGAPAPQ  
 ELGAANQQGDLCEVSLAGSVPAQGEAREGSPRDNPTAQQIMQLLREMQRPRRPLGSGNPCIPIFFYRAD  
 ENDEVKITVI

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_004486

ORF Size: 2970 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\\_004486.5](#)

**RefSeq Size:** 4304 bp

**RefSeq ORF:** 3009 bp

**Locus ID:** 2801

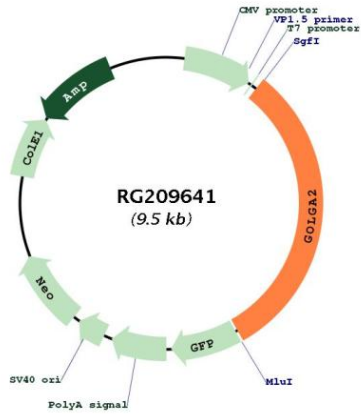
**UniProt ID:** [Q08379](#)

**Cytogenetics:** 9q34.11

**Domains:** M

**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 RG209641