

## Product datasheet for **RG214745**

### GOLPH2 (GOLM1) (NM\_016548) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GOLPH2 (GOLM1) (NM_016548) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GOLPH2
Synonyms:	bA379P1.3; C9orf155; GOLPH2; GP73; HEL46; PSEC0257
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG214745 representing NM_016548 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATGGGCTTGGGAAACGGGCGTCGCAGCATGAAGTCGCCGCCCTCGTGCTGGCCGCCCTGGTGGCCT  
GCATCATCGTCTTGGGCTTCAACTACTGGATTGCGAGCTCCCGGAGCGTGGACCTCCAGACACGGATCAT  
GGAGCTGGAAGGCAGGGTCCGCAGGGCGGCTGCAGAGAGAGGGCCCGTGGAGCTGAAGAAGAACGAGTTC  
CAGGGAGAGCTGGAGAAGCAGCGGGAGCAGCTTGACAAAATCCAGTCCAGCCACAACCTCCAGCTGGAGA  
GCGTCAACAAGCTGTACCAGGACGAAAAGCGGTTTTGGTGAATAACATCACCACAGGTGAGAGGCTCAT  
CCGAGTGTGCAAGACGATTAAGACCTGCAGAGGAATTACGGCAGGCTGCAGCAGGATGTCCTCCAG  
TTTCAGAAAGAACCAACCTGGAGAGGAAGTTCTCCTACGACCTGAGCCAGTGCATCAATCAGATGA  
AGGAGGTGAAGGAACAGTGTGAGGAGCGAATAGAAGAGGTCAACAAAAGGGGAATGAAGCTGTAGCTTC  
CAGAGACCTGAGTGAAAACAACGACCAGAGACAGCAGCTCCAAGCCCTCAGTGAGCCTCAGCCCAGGCTG  
CAGGCAGCAGGCTGCCACACAGAGGTGCCACAAGGGAAGGGAAACGTGCTTGGTAACAGCAAGTCCC  
AGACACCAGCCCCAGTCCGAAGTGGTTTTGGATTCAAAGAGACAAGTTGAGAAAGAGGAAACCAATGA  
GATCCAGTGGTGAATGAGGAGCCTCAGAGGGACAGGCTGCCGCAGGAGCCAGGCCGGGAGCAGGTGGT  
GAAGACAGACCTGTAGGTGGAAGAGGCTTCGGGGAGCCGAGAACTGGGCCAGACCCACAGGTGCAGG  
CTGCCCTGTCAGTGAGCCAGGAAAATCCAGAGATGGAGGGCCCTGAGCGAGACCAGCTTGTATCCCCGA  
CGGACAGGAGGAGGAGCAGGAAGCTGCCGGGAAGGGAGAAACAGCAGAACTGAGAGGAGAAGATGAC  
TACAACATGGATGAAAATGAAGCAGAATCTGAGACAGACAAGCAAGCAGCCCTGGCAGGGAATGACAGAA  
ACATAGATGTTTTAATGTTGAAGATCAGAAAAGAGACACCATAAATTTACTTGATCAGCGTGAAAAGCG  
GAATCATACTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG214745 representing NM\_016548  
Red=Cloning site Green=Tags(s)

```
MMGLGNRRSMKSPPLVLAALVACIIVLGFNYWIASRSVDLQTRIMELEGRVRRAAAERGAVELKKNEF
QGELKQREQLDKIQSSHNFLQESVNLK YQDEKAVLVNNITTTGERLIRVLQDQLKTLQRNYGRLQQDVLQ
FQKNQTNLERKFSYDLSQCINQMKEVKEQCEERIEEVTKKGNEAVASRDLSNNDRQQLQALSEPQRL
QAAGLPHTTEVPQKGNVLGNSKSTPAPSSEVVLDSKRQVEKEETNEIQVVNEEPQRDRLPQEPGREQVV
EDRPVGGRGFGGAGELGQTPQVQAALSVSQENPEMEGPERDQLVIPDGGQEEEQEAAGEGRNQKLRGEDD
YNMDENEAESETDKQAALAGNDRNIDVFNVEDQKRDTINLLDQREKRNHTL
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_016548

**ORF Size:** 1203 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\\_016548.4](#)

**RefSeq Size:** 3080 bp

**RefSeq ORF:** 1206 bp

**Locus ID:** 51280

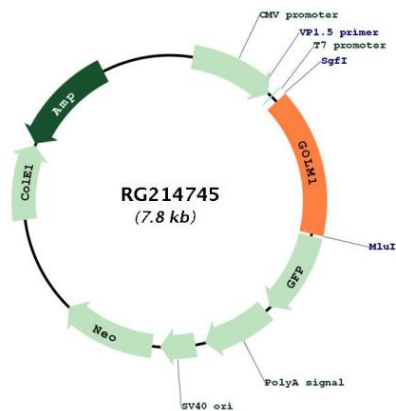
**UniProt ID:** [Q8NBJ4](#)

**Cytogenetics:** 9q21.33

**Protein Families:** Transmembrane

**Gene Summary:** The Golgi complex plays a key role in the sorting and modification of proteins exported from the endoplasmic reticulum. The protein encoded by this gene is a type II Golgi transmembrane protein. It processes proteins synthesized in the rough endoplasmic reticulum and assists in the transport of protein cargo through the Golgi apparatus. The expression of this gene has been observed to be upregulated in response to viral infection. Alternatively spliced transcript variants encoding the same protein have been described for this gene. [provided by RefSeq, Sep 2009]

### Product images:



Circular map for RG214745