

## Product datasheet for MR201270

### Golph3 (BC031445) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Golph3 (BC031445) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Golph3  
**Synonyms:** 4733401N08Rik; 5730410D03Rik; AW413496  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >MR201270 representing BC031445  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGACCTCGTGACCCAGCGGAGCTCGGGCCTGGTGCAGCGGCGCACCGAGGCCTCCCGAACGCTGCCG  
 ACAAGGAGCGGGCGGGAGGGCGGGCGGCAGCGGCGAGGACGAGGCGCAGAGCCGCCGACGAGCA  
 GGACGACGACACAAGGGCGACTCCAAGGAAACCGGGTACCCTGATGGAGGAGGTGCTCCTGCTGGC  
 CTAAGGACCGAGAGGGTTACACATCATTTTGAATGACTGTATATCATCTGGATTACGTGGCTGTATGT  
 TAATTGAATTAGCTTTGAGAGGAAGGTTACAGTTAGAGGCTTGTGGAATGAGAAGAAAAAGTCTTTTAA  
 CAGAAAGGTGATCTGTAATCGGATGCTCCAACAGGGGATGTTCTTCTTGATGAAGCTCTAAAGCATGTT  
 AAGGAGACTCAGCCTCCAGAGACAGTCCAGAAGTGGATTGAGTTACTTAGTGGAGAGAACAGATAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR201270 representing BC031445  
 Red=Cloning site Green=Tags(s)

MTSLTQRSSGLVQRRTEASRNAADKERAAGGGGGSEDEAQSRRDEQDDDDKGDSEKTRLTLMEEVLLL  
 LKDREGYTSFVNDICISSGLRGCMLIELALRGLQLEACGMRRKSLLTRKVICSDAPTGDVLLDEALKHV  
 KETQPPETVQNWIELLSGENRY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

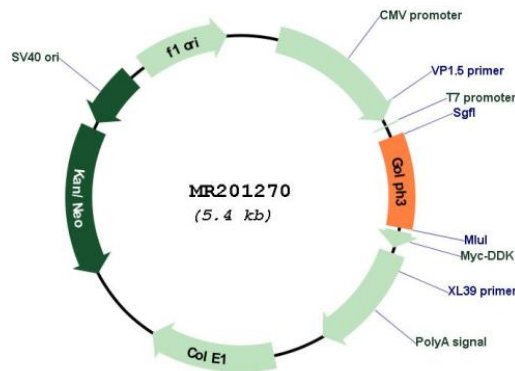


[View online »](#)

**Cloning Scheme:**



**Plasmid Map:**



ACCN: BC031445

ORF Size: 486 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.

|                               |  |
|-------------------------------|--|
| <b>Components:</b>            | 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).   |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>  |
| <b>RefSeq:</b>                | <u><a href="#">BC031445.1</a></u>  |
| <b>RefSeq Size:</b>           | 2861 bp  |
| <b>RefSeq ORF:</b>            | 488 bp   |
| <b>Locus ID:</b>              | 66629  |
| <b>Cytogenetics:</b>          | 15 A1  |
| <b>MW:</b>                    | 104.8 kDa  |
| <b>Gene Summary:</b>          | Phosphatidylinositol-4-phosphate-binding protein that links Golgi membranes to the cytoskeleton and may participate in the tensile force required for vesicle budding from the Golgi. Thereby, may play a role in Golgi membrane trafficking and could indirectly give its flattened shape to the Golgi apparatus. May also bind to the coatomer to regulate Golgi membrane trafficking. May play a role in anterograde transport from the Golgi to the plasma membrane and regulate secretion. Has also been involved in the control of the localization of Golgi enzymes through interaction with their cytoplasmic part. May play an indirect role in cell migration. Has also been involved in the modulation of mTOR signaling. May also be involved in the regulation of mitochondrial lipids biosynthesis (By similarity).[UniProtKB/Swiss-Prot Function] |