

Product datasheet for **MR204131**

Golph3 (NM_025673) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Golph3 (NM_025673) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Golph3
Synonyms: 4733401N08Rik; 5730410D03Rik; AW413496
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR204131 representing NM_025673
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACCTCGTGACCCAGCGGAGCTCGGGCCTGGTGCAGCGGCGCACCGAGGCCTCCCGAACGCTGCCG
ACAAGGAGCGGGCGGGAGGGCGGGCGGCAGCGCGAGGACGAGGCGCAGAGCCGCCGACGAGCA
GGACGACGACGACAAGGGCGACTCCAAGGAAACCGGCTGACCCTGATGGAGGAGGTGCTCTGCTGGC
CTCAAGGACCGAGAGGGTTACACATCATTTTGAATGACTGTATATCATCTGGATTACGTGGCTGTATGT
TAATTGAATTAGCTTTGAGAGGAAGTTACAGTTAGAGGCTTGTGAATGAGAAGAAAAAGTCTTTAAC
CAGAAAGGTGATCTGTAATCGGATGCTCAACAGGGGATGTTCTTCTTGATGAAGCTCTAAAGCATGTT
AAGGAGACTCAGCCTCCAGAGACAGTCCAGAACTGGATTGAGTTACTTAGTGGTGAACGTTGGAATCCAT
TAAAAATGCATTATCAATTAAGAAACGTACGGGAACGATTAGCTAAAAACCTGGTAGAAAAGGGTGTACT
GACGACAGAGAAACAGAACTTCTCCTGTTTGACATGACGACACATCCTCTACCAATAACAACATTAAG
CAGCGTCTCATCAAGAAGGTACAAGAAGCTGTTCTTGACAAATGGGTAATGACCCTCACCGAATGGACA
AGCGCTTGCTGGCCCTCATTTACCTAGCCCATGCCTCGGATGTTTTGGAAAATGCGTTTGCTCCTCTTCT
GGACGAGCAGTATGATCTAGCCACCAAGAGAGTACGGCAGCTCCTTGACTTAGACCCAGAAGTGGAGTGT
CTGAAGCCAACCAACGAAGTTCTCTGGGCTGTGGTAGCTGCGTTTACCAAG

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204131 representing NM_025673
Red=Cloning site Green=Tags(s)

MTSLTQRSSGLVQRRTEASRNAADKERAAGGGGGSGEDEAQSRRDEQDDDDKGD SKETRLTLMEEVLLLG
 LKDREGYTSFWNDCISSGLRGCMLIELALRGLQLEACGMRRKSLLTRKVICKSDAPTGDVLLDEALKHV
 KETQPPETVQNWIELLSGETWNP LKLHYQLRNVRELRKLN LVEKGVLTTEKQNFLLFDMTTHPLTNNNIK
 QRLIKKVQEAVLDKWVNDPHRMDKRL LAL IYLAHASDVLENAFAPLLDEQYDLATKRVRQLLDLDPEVEC
 LKANTNEVLWAVVAFTK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9090_a01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_025673

ORF Size: 894 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_025673.2](#), [NP_079949.1](#)

RefSeq Size: 2657 bp

RefSeq ORF: 897 bp

Locus ID: 66629

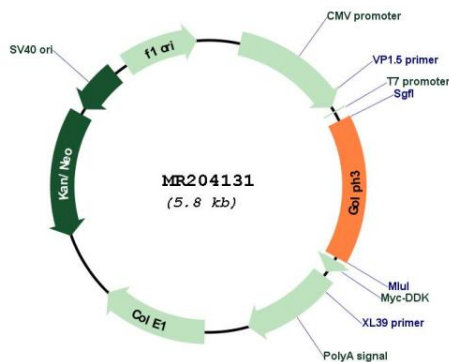
UniProt ID: [Q9CRA5](#)

Cytogenetics: 15 A1

MW: 33.8 kDa

Gene Summary: 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 coatmer 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]

Product images:



Circular map for MR204131