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Product datasheet for MG204131

Golph3 (NM_025673) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Golph3 (NM_025673) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Golph3
Synonyms:	4733401N08Rik; 5730410D03Rik; AW413496
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG204131 representing NM_025673
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACCTCGCTGACCCAGCGGAGCTCGGGCCTGGTGCAGCGGCGCACCGAGGCCTCCCGGAACGCTGCCG
ACAAGGAGCGGGCGGCGGGAGGCGGCGGCGGCAGCGGCGAGGACGAGGCGCAGAGCCGCCGCGACGAGCA
GGACGACGACGACAAGGGCGACTCCAAGGAAACGCGGCTGACCCTGATGGAGGAGGTGCTCCTGCTGGGC
CTCAAGGACCGAGAGGGTTACACATCATTTTGGAATGACTGTATATCATCTGGATTACGTGGCTGTATGT
TAATTGAATTAGCTTTGAGAGGAAGGTTACAGTTAGAGGCTTGTGGAATGAGAAGAAAAAGTCTTTTAAC
CAGAAAGGTGATCTGTAAATCGGATGCTCCAACAGGGGATGTTCTTCTTGATGAAGCTCTAAAGCATGTT
AAGGAGACTCAGCCTCCAGAGACAGTCCAGAACTGGATTGAGTTACTTAGTGGTGAGACGTGGAATCCAT
TAAAATTGCATTATCAATTAAGAAACGTACGGGAACGATTAGCTAAAAACCTGGTAGAAAAGGGTGTACT
GACGACAGAGAAACAGAACTTCCTCCTGTTTGACATGACGACACATCCTCTCACCAATAACAACATTAAG
CAGCGTCTCATCAAGAAGGTACAAGAAGCTGTTCTTGACAAATGGGTAAATGACCCTCACCGAATGGACA
AGCGCTTGCTGGCCCTCATTTACCTAGCCCATGCCTCGGATGTTTTGGAAAATGCGTTTGCTCCTCTTCT
GGACGAGCAGTATGATCTAGCCACCAAGAGAGTACGGCAGCTCCTTGACTTAGACCCAGAAGTGGAGTGT
CTGAAGGCCAACACCAACGAAGTTCTCTGGGCTGTGGTAGCTGCGTTTACCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

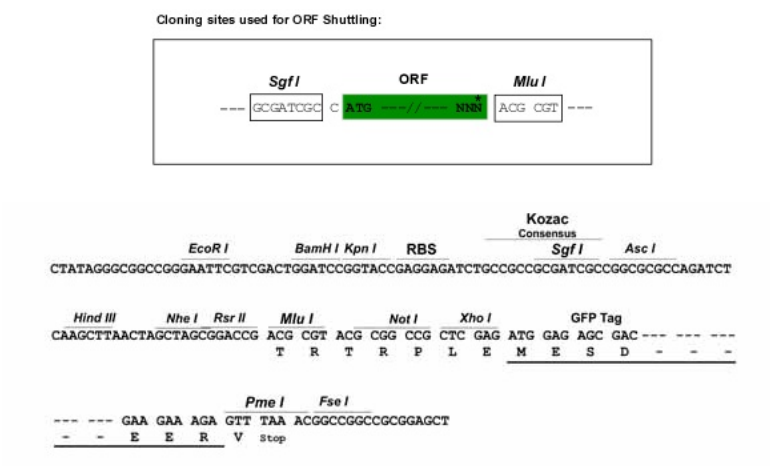
>MG204131 representing NM_025673
Red=Cloning site Green=Tags(s)

MTSLTQRSSGLVQRRTEASRNAADKERAAGGGGGSGEDEAQSRRDEQDDDDKGDSKETRLTLMEEVLLLG
LKDREGYTSFWNDCISSGLRGCMLIELALRGRLQLEACGMRRKSLLTRKVICKSDAPTGDVLLDEALKHV
KETQPPETVQNWIELLSGETWNPLKLHYQLRNVRERLAKNLVEKGVLTTEKQNFLLFDMTTHPLTNNNIK
QRLIKKVQEAVLDKWVNDPHRMDKRLLALIYLAHASDVLENAFAPLLDEQYDLATKRVRQLLDLDPEVEC
LKANTNEVLWAVVAAFTK

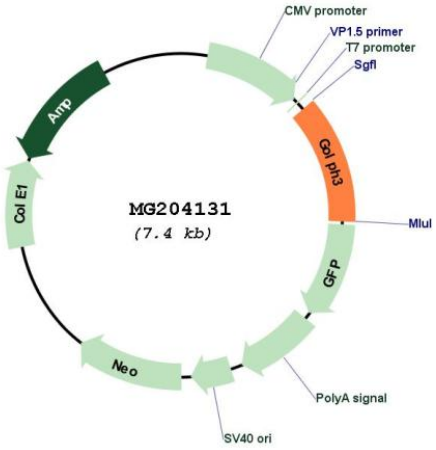
TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



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
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 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]