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Product datasheet for RC202969

PGAP4 (NM_032342) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PGAP4 (NM_032342) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PGAP4
Synonyms:	C9orf125; TMEM246
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC202969 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGCACTTCAACCTCTCCAGCTGCCATGCTCCTCCGGAGGCTGCGGCGACTGTCCTGGGGCAGCACTG
CTGTCCAGCTCTTCATCCTAACAGTGGTGACGTTTGGCCTGCTGGCCCCCCTGGCCTGTCACCGACTTCT
ACACTCTTACTTCTATCTGCGCCATTGGCATCTGAACCAAATGAGCCAAGAGTTCCTGCAGCAAAGCTTG
AAAGAGGGTGAGGCTGCCCTCCACTATTTTGAGGAGCTTCCCTCTGCCAATGGCTCAGTGCCCATTGTCT
GGCAGGCCACCCCCCGGCCCTGGCTGGTGATCACCATCATCACTGTGGACAGGCAGCCTGGCTTCCACTA
CGTCCTGCAGGTTGTGTCCCAGTTCCACCGGCTTCTTCAGCAATGTGGCCCCCAGTGCGAGGGGCACCAA
CTCTTCCTGTGCAACGTGGAGCGTAGTGTGAGCCATTTTGATGCCAAGTTGCTCTCCAAGTATGTCCCTG
TGGCCAATCGCTATGAGGGCACTGAGGATGATTATGGTGATGACCCTTCGACCAACTCGTTTGAGAAAGA
GAAGCAGGACTATGTCTATTGCCTGGAGTCATCCCTGCAGACCTACAACCCAGACTACGTCCTGATGGTA
GAAGACGATGCTGTACCAGAAGAGCAGATCTTCCCAGTCTTGGAGCACCTTCTGCGGGCTCGCTTCTCTG
AGCCACATCTCAGAGATGCCCTTTATCTCAAGCTGTATCACCCCGAGAGGCTCCAGCACTACATCAATCC
AGAGCCCATGCGGATCCTGGAATGGGTTGGTGTAGGCATGTTGCTGGGGCCCTTACTAACCTGGATATAC
ATGAGGTTTGCCAGCCGCCCAGGGTTTAGCTGGCCTGTAATGCTCTTCTTCTCCCTGTATAGCATGGGTC
TGGTGGAGCTGGTGGGTCGGCACTATTTCCTGGAACTGCGGCGGCTGAGTCCTTCCCTGTACAGTGTGGT
TCCTGCCTCTCAGTGTTGCACCCCAGCCATGCTCTTCCCGGCACCTGCGGCCCGCCGGACCCTCACCTAC
CTGTCCCAAGTGTACTGCCACAAGGGCTTTGGCAAGGACATGGCACTGTACTCGCTGTTGAGGGCCAAGG
GAGAGAGGGCCTATGTAGTGGAGCCGAACCTCGTGAAACACATCGGGCTCTTCTCCAGTCTCCGGTACAA
CTTTCATCCCAGTCTCCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC202969 protein sequence
Red=Cloning site Green=Tags(s)

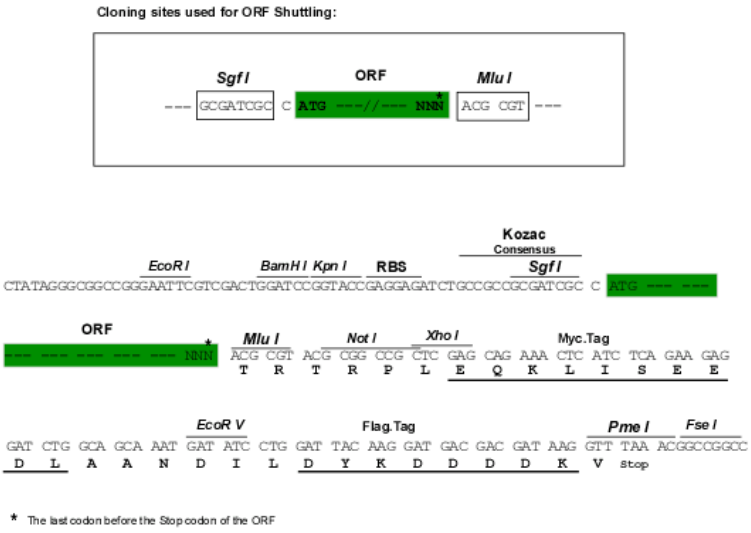
MSTSTSPAAMLLRRLRRLSWGSTAVQLFILTVVTFGLLAPLACHRLLHSYFYLRHWHLNQMSQEFLQQSL
KEGEAALHYFEELPSANGSVPIVWQATPRPWLVITIITVDRQPGFHYVLQVVSQFHRLLQQCGPQCEGHQ
LFLCNVERSVSHFDAKLLSKYVPVANRYEGTEDDYGDDPSTNSFEKEKQDYVYCLESSLQTYNPDYVLMV
EDDAVPEEQIFPVLEHLLRARFSEPHLRDALYLKLYHPERLQHYINPEPMRILEWVGVGMLLGPLLTWIY
MRFASRPGFSWPVMLFFSLYSMGLVELVGRHYFLELRRLSPSLYSVVPASQCCTPAMLFPAPAARRTLTY
LSQVYCHKGFGKDMALYSLLRAKGERAYVVEPNLVKHIGLFSSLRYNFHPSLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6668_a03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_032342

ORF Size: 1209 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_032342.1, NP_115718.1

RefSeq Size: 2110 bp

RefSeq ORF: 1212 bp

Locus ID: 84302

UniProt ID: Q9BRR3

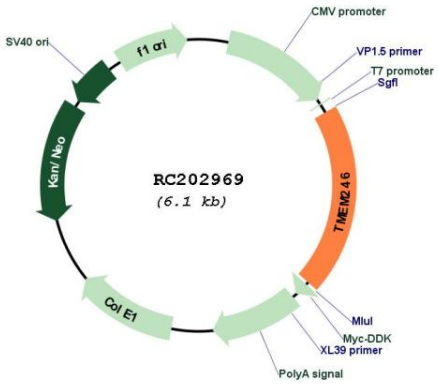
Cytogenetics: 9q31.1

Protein Families: Transmembrane

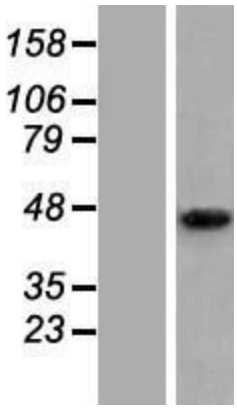
MW: 46.6 kDa

Gene Summary: Golgi-resident glycosylphosphatidylinositol (GPI)-N-acetylgalactosamine transferase involved in the lipid remodeling steps of GPI-anchor maturation. Lipid remodeling steps consist in the generation of 2 saturated fatty chains at the sn-2 position of GPI-anchors proteins (PubMed:29374258). Required for the initial step of GPI-GalNAc biosynthesis, transfers GalNAc to GPI in the Golgi after fatty acid remodeling by PGAP2 (PubMed:29374258). [UniProtKB/Swiss-Prot Function]

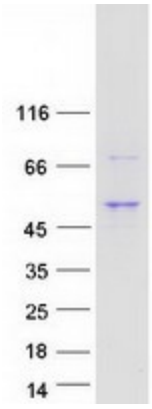
Product images:



Circular map for RC202969



Western blot validation of overexpression lysate (Cat# [LY410179]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202969 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TMEM246 protein (Cat# [TP302969]). The protein was produced from HEK293T cells transfected with TMEM246 cDNA clone (Cat# RC202969) using MegaTran 2.0 (Cat# [TT210002]).