

Product datasheet for **RG202289**

PGAP3 (NM_033419) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PGAP3 (NM_033419) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PGAP3
Synonyms:	AGLA546; CAB2; hCOS16; PERLD1; PP1498
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202289 representing NM_033419 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGGCCTGGCGGCGGTTGGTCTGCTAGCTGGGGCAGCGGCGCTGGCGAGCGGCTCCCAGGGCG
ACCGTGAGCCGGTGTACCGGACTGCGTACTGCAGTGCGAAGAGCAGAACTGCTCTGGGGGCGCTTGAA
TCACTTCCGCTCCCGCCAGCCAATCTACATGAGTCTAGCAGGCTGGACCTGTCGGGACGACTGTAAGTAT
GAGTGTATGTGGGTACCGTTGGGCTCTACCTCCAGGAAGGTCAAAAGTGCCTCAGTTCCATGGCAAGT
GGCCCTTCTCCCGTTCTGTTCTTTCAAGAGCCGGCATCGGCCGTGGCCTCGTTTCTCAATGGCCTGGC
CAGCCTGGTGATGCTCTGCCGCTACCGCACCTTGGTGCCAGCCTCTCCCCATGTACCACACCTGTGTG
GCCTTCGCCTGGGTGTCCTCAATGCATGGTCTGGTCCACAGTTTTCCACACAGGACACTGACCTCA
CAGAGAAAATGGACTACTTCTGTGCCTCCACTGTCATCCTACACTCAATCTACCTGTGCTGCGTCAGGAC
CGTGGGGCTGCAGCACCAGCTGTGGTCAGTGCCTTCCGGGCTCTCTGCTGCTCATGCTGACCGTGCAC
GTCTCCTACCTGAGCCTCATCCGCTTCCGACTATGGCTACAACCTGGTGGCCAACGTGGCTATTGGCTGG
TCAACGTGGTGTGGTGGCTGGCCTGGTGCCTGTGGAACCGCGGCGCTGCCTCACGTGCCAAGTGCCT
GGTGGTGGTCTTGCTGCTGCAGGGGCTGTCCCTGCTCGAGCTGCTTGACTCCCACCGCTCTTCTGGGTC
CTGGATGCCATGCCATCTGGCACATCAGCACCATCCCTGTCCAGTCCCTTTTTCAGCTTTCTGGAAG
ATGACAGCCTGTACCTGCTGAAGGAATCAGAGGACAAGTTCAAGCTGGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG202289 representing NM_033419
Red=Cloning site Green=Tags(s)

MAGLAARLVLLAGAAALASGSQGDREPVYRDCVLQCEEQNCSGGALNHFRSRQPIYMSLAGWTCRDDCKY
 ECMWVTVGLYLQEGHKVPQFHGKWPFSRFLFFQEPASAVASFLNGLASL VMLCRYRTFVFPASSPMYHTCV
 AFAWVSLNAWFSTVFHTRDLDL TEKMDYFCASTVILHSIYLCCVRTVGLQHPAVVSAFRALLLLMLTVH
 VSYLSLIRFDYGYNLVANVAIGLVNVVWVLAWCLWNQRRLPHVRKCVVVVLLQLGLSLELLDFPPLFWV
 LDAHAIWHISTIPVHVLFFSFLEDDSLYLLKESEDKFKLD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_033419

ORF Size: 960 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_033419.5](#)

RefSeq Size: 2708 bp

RefSeq ORF: 963 bp

Locus ID: 93210

UniProt ID: [Q96FM1](#)

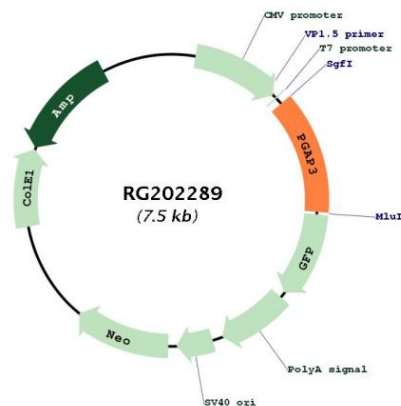
Cytogenetics: 17q12

Domains: Per1

Protein Families: Transmembrane

Gene Summary: This gene encodes a glycosylphosphatidylinositol (GPI)-specific phospholipase that primarily localizes to the Golgi apparatus. This ubiquitously expressed gene is predicted to encode a seven-transmembrane protein that removes unsaturated fatty acids from the sn-2 position of GPI. The remodeling of the constituent fatty acids on GPI is thought to be important for the proper association between GPI-anchored proteins and lipid rafts. The tethering of proteins to plasma membranes via posttranslational GPI-anchoring is thought to play a role in protein sorting and trafficking. Mutations in this gene cause an autosomal recessive form of neurologic hyperphosphatasia with cognitive disability (HPMRS4). Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Jul 2017]

Product images:



Circular map for RG202289