

Product datasheet for **RG236376**

PGAP3 (NM_001291732) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PGAP3 (NM_001291732) 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: >RG236376 representing NM_001291732.
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCCGGCTGGCGGCGGTTGGTCCTGCTAGCTGGGGCAGCGGCGCTGGCGAGCGGCTCCCAGGGC
GACCGTGAGCCGGTGTACCGGACTGCGTACTGCACTGCGAAGAGCAGAAGTGTCTGGGGCGCTCTG
AATCACTCCGCTCCCGCAGCCAATCTACATGAGTCTAGCAGGCTGGACCTGTCGGGACGACTGTAAG
TATGAGTGTATGGGTACCGTTGGGCTACCTCCAGGAAGGTCACAAAGTGCCTCAGTTCCATGGC
AAGTGGCCCTTCCCGTTCTGTTCTTCAAGAGCCGGCATCGGCCGTGGCCTCGTTTCTCAATGGC
CTGCCAGCCTGGTGTGCTCTGCCGCTACCGCACCTTCGTGCCAGCCTCCTCCCCATGTACCACACC
TGTGTGGCCTTCGCTGGAAAATGGACTACTTCTGTGCCTCCACTGTCATCCTACACTCAATCTACCTG
TGCTGCGTCAGCTTTCTGGAAGATGACAGCCTGTACCTGCTGAAGGAATCAGAGGACAAGTTCAAGCTG
GAC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG236376
Blue=ORF Red=Cloning site Green=Tag(s)

```
MAGLAARLVLLAGAAALASGSQGDREPVYRDCVLQCEEQNCSGGALNHFRSRQPIYMSLAGWTCRDDCK
YECMWVTVGLYLQEGHKVPQFHGKWPFSRFLFFQEPASAVASFLNGLASLVMLCRYRTFVPASSPMYHT
CVAFWKMDYFCASTVILHSIYLCCVSFLEDDSLYLLKESEDKFKLD
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGYTNRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites: SgfI-MluI



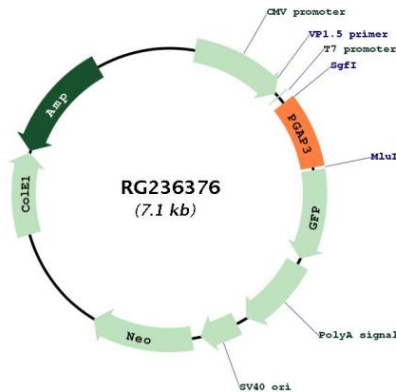
Cloning Scheme:


- ACCN:** NM_001291732
- ORF Size:** 555 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).
- RefSeq:** [NM_001291732.1](#), [NP_001278661.1](#)
- RefSeq Size:** 2316 bp
- RefSeq ORF:** 558 bp
- Locus ID:** 93210
- UniProt ID:** [Q96FM1](#)
- Cytogenetics:** 17q12
- Protein Families:** Transmembrane
- MW:** 21.3 kDa

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 RG236376