

Product datasheet for **RG233501**

PGAP2 (NM_001256238) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PGAP2 (NM_001256238) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PGAP2
Synonyms:	CWH43-N; FRAG1; HPMRS3; MRT17; MRT21
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG233501 representing NM_001256238 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTACCAGGTCCCCTACCACTGGATCGGGATGGGACCCTGGTACGGCTCCGCTTCACCATGGTGGCCC
TGGTCACGGTCTGCTGTCCACTTGTGCGCTTCTCTTCTGCATCCTCTGGTCCCTGCTCTTCCACTTCAA
GGAGACAACGGCCACACACTGTGGGTGCCAATTACCTGCCCTCGGTGAGCTCAGCCATCGCGGGGAG
GTGCCCCAGCGCTACGTGTGGCTTTCTGCATCGGCTGCACTCGGCGCCTCGCTTCTTGGTGGCCTTCG
CCTACTGGAACCACTACCTCAGCTGCACCTCCCGTGTCTCTGCTATCGCCGCTCTGCCGCTCAACTT
CGGCCTCAATGTCGTGGAGAACCTCGCGTTGCTAGTGCTCACTTATGCTCCTCCTCCGAGGACTTCACT
ATCCACGAAAATGCTTTCATTGTGTTTATTGCCTCATCCCTCGGGACATGCTCCTCACCTGCATTCTCT
GGCGTTGACCAAGAAGCACACAGTAAGTCAGGAGGTACGGTCTATCCCTAGCGGGGCTCCAAGGCAGC
CCAGAAGAAAATCAAGGACATCTGTCCTCAGGATTCGGGATCGCAAGTCTACAGCTGAAAACAGCGGCT
CTTCATCATCACTTCTCTCTTCTCGGCGCTGGCTGTCTACTTTCGGCACAAATGTATTG

ACGCGTACGCGGGCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG233501 representing NM_001256238
 Red=Cloning site Green=Tags(s)

MYQVPLPLDRDGLVRLRFTMVALVTCCPLVAFILWLLFHFKEETATHCGVPNYLPSVSSAIGGE
 VPQRYVWRFCIGLHSAPRFLVAFAYWNHYLSCTSPCSCYRPLCRLNFGNVLVVENLALLVLTYVSSSEDF
 IHENAFIVFIASSLGHMLLTCILWRLTKKHTVSQEVRSIPSGGSKAAQKKIKDICPQDSGSQVLQLETA
 LHHQLHLLLLGAGCLLSAQHVL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001256238

ORF Size: 696 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_001256238.1](#), [NP_001243167.1](#)

RefSeq Size: 1875 bp

RefSeq ORF: 699 bp

Locus ID: 27315

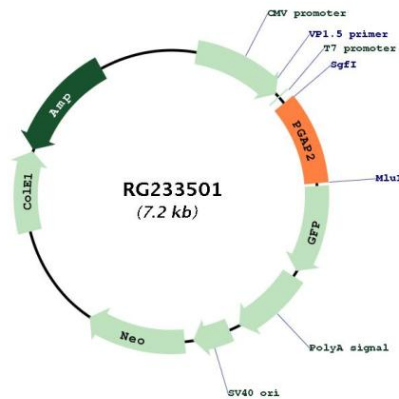
UniProt ID: [Q9UHJ9](#)

Cytogenetics: 11p15.4

Protein Families: Druggable Genome, Transmembrane

Gene Summary: The protein encoded by this gene plays a role in the maturation of glycosylphosphatidylinositol (GPI) anchors on GPI-anchored proteins. Mutations in this gene are associated with an autosomal recessive syndrome characterized by hyperphosphatasia and intellectual disability. [provided by RefSeq, Jul 2017]

Product images:



Circular map for RG233501