

## Product datasheet for **RG233610**

### PGAP2 (NM\_001256235) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** PGAP2 (NM\_001256235) 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:** >RG233610 representing NM\_001256235  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGACCCTGGTACGGCTCCGCTTACCATGGTGGCCCTGGTCACGGTCTGCTGTCCACTTGTGCGCCTT  
 CCTCTTCTGCATCCTCTGGTCCCTGCTCTTCCACTTCAAGGAGACAACGGCCACACTGTGGGGACTGA  
 AGCTTCAATAGGAGTTCAGGCATTAAGATGGATGGTGGAGATGCACAAGAACATGGTCATTTCTTAGA  
 CTACCCAGGTGCCAATTACCTGCCCTCGGTGAGCTCAGCCATCGCGGGGAGGTGCCACGCGTACG  
 TGTGGCGTTTCTGCATCGGCCTGCACTCGGCGCCTCGCTTCTTGGTGGCCTTCGCCTACTGGAACCTA  
 CCTCAGCTGCACCTCCCGTGTTCCTGCTATCGCCCGCTCTGCCCGCTCAACTTCGGCCTCAATGTCGTG  
 GAGAACCTCGCGTTGCTAGTGCTCACTTATGTCTCCTCCTCCGAGGACTTACCATCCACGAAAAATGCTT  
 TCATTGTGTTTATTGCCTCATCCCTCGGGCACATGCTCCTCACCTGCATTCTTGCGCGTTGACCAAGAA  
 GCACACAGTAAGTCAGGAGGATCGCAAGTCTACAGCTGGAAACAGCGGCTTTCATCATCAACTTCATC  
 TCCTTCTTCTCGGCGTGGCTGTCTACTTTCGGCACAACATGTATTGTGAGGCTGGAGTGTACACCATCT  
 TTGCCATCCTGGAGTACACTGTTGTCTTAACCAACATGGCGTTCACATGACGGCCTGGTGGGACTTCGG  
 GAACAAGGAGCTGCTCATAACCTCTCAGCCTGAGGAAAAGCGATTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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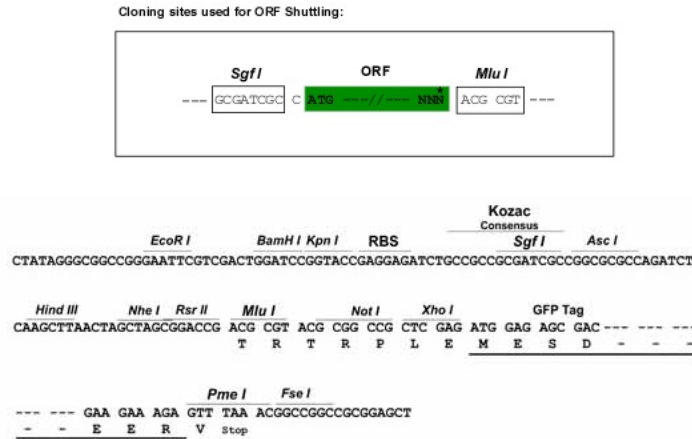
**Protein Sequence:** >RG233610 representing NM\_001256235  
 Red=Cloning site Green=Tags(s)

MGPWYGSASPWWPWSRSVAVHLSPPSSASSGPCSSTSRQRPHTVGTEASIGVPGIKMDGGDAQEHGHFLR  
 LPQVPNYLPVSSAIGGEVPQRYVWRFCIGLHSAPRFLVAFAYWNHYLSCTSPSCYRPLCRLNFGNLNVV  
 ENLALLVLTYYVSSSEDFTIHENAFIVFIASSLGHMLLTCILWRLTKKHTVSQEDRKSYSWKQRLFIIINFI  
 SFFSALAVYFRHNMYCEAGVYITFAILEYTVVLTNMAFHMTAWWDFGNKELLITSQPEEKRF

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001256235

**ORF Size:** 816 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\\_001256235.1](#), [NP\\_001243164.1](#)

**RefSeq Size:** 1829 bp

**RefSeq ORF:** 819 bp

**Locus ID:** 27315

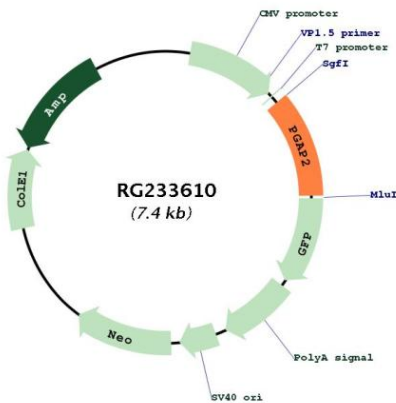
**UniProt ID:** [Q9UHJ9](#)

**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 RG233610