

## Product datasheet for **RG237372**

### PGAP2 (NM\_001283038) Human Tagged ORF Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids  |
| Product Name:             | PGAP2 (NM_001283038) 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:  | >RG237372 representing NM_001283038.<br>Blue=ORF Red=Cloning site Green=Tag(s) |

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGCTAGATTGGGAAGCACCGGCGGGGTGTCGGGAAGGGTGGTGACGCAACATAGAGACTCCGCCCCC
TTCCTTGGAGCGCCGCGACTCGGGCTGAGGGAGCTCGGGCCAATCAGAGGGACGGCCCCAGAATGGCAT
GGTAGATGGAACGCAGCTGAGAGGTCTGACAAGATGTACCAGGTCCCACTACCACTGGATCGGGATGGG
ACCCTGGTACGGCTCCGCTTACCATGGTGGCCCTGGTCACGGTCTGCTGTCCACTTGTCCGCTTCCCTC
TTCTGCATCCTCTGGTCCCTGCTTCCACTTCAAGGAGACAACGGCCACACACTGTGGGTGCCCAAT
TACCTGCCCTCGGTGAGCTCAGCCATCGGCGGGGAGGTGCCCCAGCGCTACGTGTGGCGTTTCTGCATC
GGCCTGCACTCGGCGCCTCGCTTCTTGGTGGCCTTCGCCTACTGGAACCACTACCTCAGCTGCACCTCC
CCGTGTTCTGCTATCGCCCGCTCTGCCGCTCAACTTCGGCCTCAATGTCGTGGAGAACCTCGCGTTG
CTAGTGCTCACTTATGTCTCCTCCTCCGAGGACTTACCATCCACGAAAATGCTTTCATTGTGTTTATT
GCCTCATCCCTCGGGCACATGCTCCTCACCTGCATTCTCTGGCGGTTGACCAAGAAGCACACAGTAAGT
CAGGAGGATCGCAAGTCTACAGCTGGAACAGCGGCTTTCATCATCAACTTCACTCTCTTCTTCTCG
GCGCTGGCTGTCTACTTTCGGCACAACATGTATTGTGAGGCTGGAGTGTACACCATCTTGGCCATCTG
GAGTACACTGTTGTCTTAACCAACATGGCGTTCACATGACGGCCTGGTGGGACTTCGGGAACAAGGAG
CTGCTCATAACCTCTCAGCCTGAGGAAAAGCGATTC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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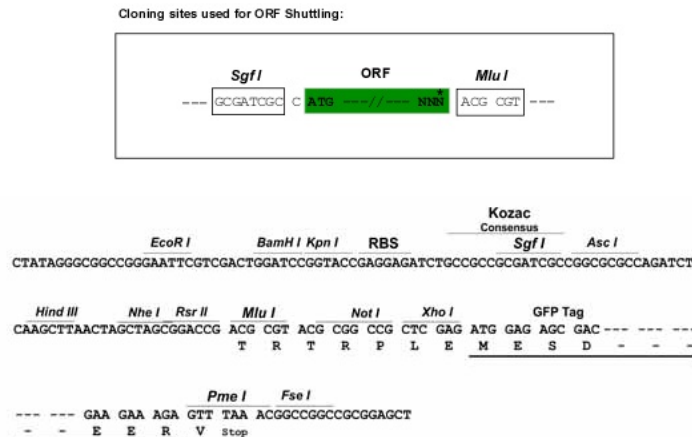
[View online »](#)

**Protein Sequence:** >Peptide sequence encoded by RG237372  
 Blue=ORF Red=Cloning site Green=Tag(s)

MARLGSTGGVSGRVVTQHRDSAPFLGAPRLGLRELGPIRGTAPewHGRWNAAERSDKMYQVPLPLDRDG  
 TLVRLRF<sup>Blue</sup>TMVALVTVCCPLVAF<sup>Blue</sup>LCILWSLLFHF<sup>Blue</sup>KETTATHCGV<sup>Blue</sup>PNYLP<sup>Blue</sup>SVSSAIGGEV<sup>Blue</sup>PQR<sup>Blue</sup>YV<sup>Blue</sup>W<sup>Blue</sup>RF<sup>Blue</sup>CI  
 GLHSAP<sup>Blue</sup>RFLVAFAY<sup>Blue</sup>WNH<sup>Blue</sup>YLSCTSP<sup>Blue</sup>CSCY<sup>Blue</sup>RPLCRLN<sup>Blue</sup>FGLN<sup>Blue</sup>VVENLALLVL<sup>Blue</sup>TYV<sup>Blue</sup>SSSE<sup>Blue</sup>DF<sup>Blue</sup>TIH<sup>Blue</sup>ENAF<sup>Blue</sup>IV<sup>Blue</sup>FI  
 ASSLGH<sup>Blue</sup>MLLTCIL<sup>Blue</sup>WRLTKK<sup>Blue</sup>HTVSQ<sup>Blue</sup>EDR<sup>Blue</sup>KYS<sup>Blue</sup>WK<sup>Blue</sup>QRL<sup>Blue</sup>FI<sup>Blue</sup>INFI<sup>Blue</sup>SFF<sup>Blue</sup>SALAV<sup>Blue</sup>YFR<sup>Blue</sup>HNM<sup>Blue</sup>YCEAG<sup>Blue</sup>VY<sup>Blue</sup>TF<sup>Blue</sup>IF<sup>Blue</sup>AIL  
 EYTV<sup>Blue</sup>VLTNMA<sup>Blue</sup>FHMTA<sup>Blue</sup>WDFG<sup>Blue</sup>NKELL<sup>Blue</sup>ITSQ<sup>Blue</sup>PEEK<sup>Blue</sup>RF  
 TR<sup>Green</sup>TRPLE<sup>Green</sup>ME<sup>Green</sup>SDE<sup>Green</sup>SGLPAMEIE<sup>Green</sup>CRIT<sup>Green</sup>GT<sup>Green</sup>LN<sup>Green</sup>GV<sup>Green</sup>EFELV<sup>Green</sup>GGEG<sup>Green</sup>TPE<sup>Green</sup>QGR<sup>Green</sup>MTN<sup>Green</sup>KMK<sup>Green</sup>STK<sup>Green</sup>GAL<sup>Green</sup>TF<sup>Green</sup>SPY<sup>Green</sup>LLSHV  
 MGY<sup>Green</sup>GFY<sup>Green</sup>HFG<sup>Green</sup>TYP<sup>Green</sup>SGY<sup>Green</sup>ENP<sup>Green</sup>FLHAIN<sup>Green</sup>GGY<sup>Green</sup>TN<sup>Green</sup>RIEK<sup>Green</sup>YED<sup>Green</sup>GGV<sup>Green</sup>LHVS<sup>Green</sup>FSY<sup>Green</sup>RYE<sup>Green</sup>AG<sup>Green</sup>RVIG<sup>Green</sup>DF<sup>Green</sup>KVM<sup>Green</sup>GT<sup>Green</sup>GF<sup>Green</sup>PE<sup>Green</sup>D  
 SVIF<sup>Green</sup>TD<sup>Green</sup>KI<sup>Green</sup>IRS<sup>Green</sup>NAT<sup>Green</sup>VEHL<sup>Green</sup>HMP<sup>Green</sup>GDND<sup>Green</sup>LD<sup>Green</sup>GSF<sup>Green</sup>TR<sup>Green</sup>TFSL<sup>Green</sup>RD<sup>Green</sup>GGY<sup>Green</sup>SSV<sup>Green</sup>VDS<sup>Green</sup>HM<sup>Green</sup>HF<sup>Green</sup>KS<sup>Green</sup>AIH<sup>Green</sup>PSIL<sup>Green</sup>QNG<sup>Green</sup>GP<sup>Green</sup>MFA  
 FRR<sup>Green</sup>VEED<sup>Green</sup>HS<sup>Green</sup>NTEL<sup>Green</sup>GIVE<sup>Green</sup>YQH<sup>Green</sup>AFK<sup>Green</sup>TPD<sup>Green</sup>ADAGE<sup>Green</sup>ERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001283038

**ORF Size:** 933 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\\_001283038.1](#), [NP\\_001269967.1](#)

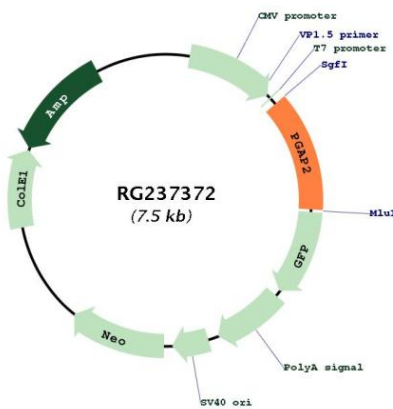
**RefSeq Size:** 1888 bp

**RefSeq ORF:** 936 bp

**Locus ID:** 27315  
**UniProt ID:** [Q9UHJ9](#)  
**Cytogenetics:** 11p15.4  
**Protein Families:** Druggable Genome, Transmembrane  
**MW:** 36 kDa

**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 RG237372