

## Product datasheet for **RG213084**

### PGAP2 (NM\_014489) Human Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | PGAP2 (NM_014489) 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:  | >RG213084 representing NM_014489<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTACCAGGTCCCCTACCACTGGATCGGGATGGGACCCTGGTACGGCTCCGCTTCACCATGGTGGCCC  
TGGTCACGGTCTGCTGTCCACTTGTGCGCTTCTCTTCTGCATCCTCTGGTCCCTGCTCTCCACTTCAA  
GGAGACAACGGCCACACTGTGGGGCCACGCCCTGCAGGATGTTCTCTGCGGCTCCAGCCTTTGGAC  
CCCAGTGGGACCTTGTCCGGCTTCGCTTCACAGCCATGGTCTGGTGGCCATCACTTTTCTGTGTTCG  
GCTTCTTCTTCTGCATCATCTGGTCCCTGGTGTCCACTTTGAGTACACGGTGGCCACTGACTGTGGGGT  
GCCAATTACCTGCCCTCGGTGAGCTCAGCCATCGGCGGGAGGTGCCAGCGCTACGTGTGGCGTTTC  
TGATCGGCTGCACTCGGCGCCTCGCTTCTTGGTGGCCTTCGCCTACTGGAACCACTACCTCAGCTGCA  
CCTCCCGTGTTCCTGCTATCGCCCGCTCTGCCGCTCAACTTCGGCCTCAATGTCGTGGAGAACCTCGC  
GTTGCTAGTGCTCACTTATGTCTCCTCCTCCGAGGACTTACCATCCACGAAAATGCTTTTATTGTGTTT  
ATTGCCTCATCCCTCGGGCACATGTCTCCTCACCTGCATTCTCTGGCGGTTGACCAAGAAGCACACAGTAA  
GTCAGGAGGATCGCAAGTCTACAGCTGAAAACAGCGGCTTTCATCATCACTTTCATCTCCTTCTTCTC  
GGCGCTGGCTGTCTACTTTCGGCACAACATGTATTGTGAGGCTGGAGTGTACACCATCTTTGCCATCCTG  
GAGTACACTGTTGTCTTAACCAACATGGCGTCCACATGACGGCCTGGTGGGACTTCGGGAACAAGGAGC  
TGCTCATAACCTCTCAGCCTGAGGAAAAGCGATTTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG213084 representing NM\_014489  
 Red=Cloning site Green=Tags(s)

MYQVPLPLDRDGLVRLRFTMVALVTCCPLVAFVFCILWSLLFHFKEETATHCGATPCRMFSAASQPLD  
 PDGTLFRLRFTAMVWVAITFPVFGFFFCIIWSLVFHFYEYTVATDCGVPNYLPSVSSAIGGEVQRYVWRF  
 CIGLHSAPRFLVAFAYWNHYLSCTSPSCYRPLCRLNFGLNVENLALLVLTYSSEDFTIHENAFIVF  
 IASSLGHMLLTCILWRLTKKHTVSQEDRKSYSWKQRLFIIINFISFFSALAVYFRHNMYCEAGVYTIFAIL  
 EYTVVLTNMAFHMTAWWDFGNKELLITSQPEEKRF

TRTRPLE - GFP Tag - V

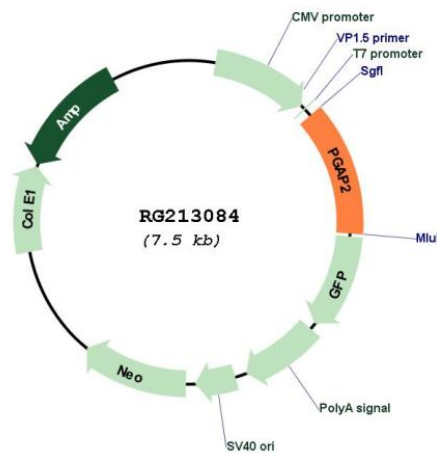
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_014489

**ORF Size:** 945 bp

|                               |   |
|-------------------------------|---|
| <b>OTI Disclaimer:</b>        | 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. <a href="#">More info</a>  |
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.  |
| <b>Components:</b>            | 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).  |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol> |
| <b>RefSeq:</b>                | <a href="#">NM_014489.4</a>   |
| <b>RefSeq Size:</b>           | 2040 bp   |
| <b>RefSeq ORF:</b>            | 948 bp  |
| <b>Locus ID:</b>              | 27315   |
| <b>UniProt ID:</b>            | <a href="#">Q9UHJ9</a>  |
| <b>Cytogenetics:</b>          | 11p15.4   |
| <b>Protein Families:</b>      | Druggable Genome, Transmembrane   |
| <b>Gene Summary:</b>          | 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]   |