

Product datasheet for **RG226646**

PGAP2 (NM_001145439) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PGAP2 (NM_001145439) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: PGAP2
Synonyms: CWH43-N; FLJ26520; FRAG1; MGC799
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG226646 representing NM_001145439
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGTAGATGGAACGCAGCTGAGAGGTGCCAATTACCTGCCCTCGGTGAGCTCAGCCATCGGCGGGGAG
 GTGCCCCAGCGCTACGTGTGGCGTTTCTGCATCGGCTGCACTCGGCGCCTCGTTCTTGGTGGCCTTCG
 CCTACTGGAACCACTACCTCAGCTGCACCTCCCGTGTCTCTGCTATCGCCGCTCTGCCGCTCAACT
 CGGCCTCAATGTCGTGGAGAACCTCGCGTTGCTAGTGCTCACTTATGTCTCCTCCTCCGAGGACTCACC
 ATCCACGAAAATGCTTTCATTGTGTTTCATTGCCTCATCCCTCGGCACATGCTCCTCACCTGCATTCTCT
 GCGGTTGACCAAGAAGCACACAGTAAGTCAGGAGGATCGCAAGTCTACAGCTGAAAACAGCGGCTCTT
 CATCATCAACTTCATCTCTTCTCTCGGCGCTGGCTGTCTACTTTCGGCACAACATGTATTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG226646 representing NM_001145439
 Red=Cloning site Green=Tags(s)

MVDGTLRGAQLPALGELSHRRGGAPALRVAFLHRPALGASLLGGLRLLLEPLPQLHLPVFLSPALPPQL
 RPQCRGEPVSAHLCLLLRGLHHPKCFHCVHCLIPRAHAPHLHSLAVDQEAHSKSGGSQVLQLETAAL
 HHQLHLLLLGAGCLLSAQHVL

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

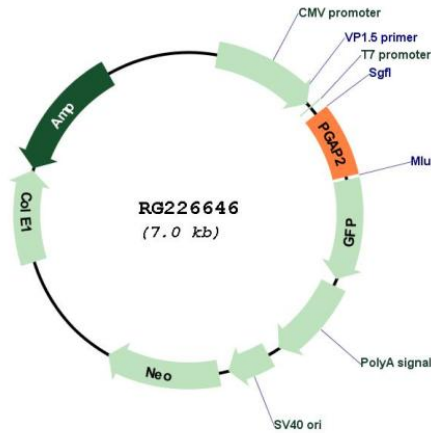


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001145439

ORF Size: 483 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:	<ol style="list-style-type: none">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:	<u>NM_001145439.1, NP_001138911.1</u>
RefSeq Size:	1607 bp
RefSeq ORF:	485 bp
Locus ID:	27315
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]