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Product datasheet for RC233905

PGAP2 (NM_001256236) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PGAP2 (NM_001256236) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PGAP2
Synonyms:	CWH43-N; FRAG1; HPMRS3; MRT17; MRT21
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC233905 representing NM_001256236
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTAGATTGGGAAGCACCGGCGGGGTGTCGGGAAGGGTGGTGACGCAACATAGAGACTCCGCCCCCT
TCCTTGGAGCGCCGCGACTCGGGCTGAGGGAGCTCGGGCCAATCAGAGGGACGGCCCCAGAATGGCATGG
TAGATGGAACGCAGCTGAGAGGTCTGACAAGATGTACCAGGTCCCACTACCACTGGATCGGGATGGGACC
CTGGTACGGCTCCGCTTCACCATGGTGGCCCTGGTCACGGTCTGCTGTCCACTTGTCGCCTTCCTCTTCT
GCATCCTCTGGTCCCTGCTCTTCCACTTCAAGGAGACAACGGCCACACACTGTGGGGCCACGCCCTGCAG
GATGTTCTCTGCGGCCTCCCAGCCTTTGGACCCCGATGGGACCTTGTTCCGGCTTCGCTTCACAGCCATG
GTCTGGTGGGCCATCACTTTTCCTGTGTTCGGCTTCTTCTTCTGCATCATCTGGTCCCTGGTGTTCCACT
TTGAGTACACGGTGGCCACTGACTGTGGGGTGCCCAATTACCTGCCCTCGGTGAGCTCAGCCATCGGCGG
GGAGGTGCCCCAGCGCTACGTGTGGCGTTTCTGCATCGGCCTGCACTCGGCGCCTCGCTTCTTGGTGGCC
TTCGCCTACTGGAACCACTACCTCAGCTGCACCTCCCCGTGTTCCTGCTATCGCCCGCTCTGCCGCCTCA
ACTTCGGCCTCAATGTCGTGGAGAACCTCGCGTTGCTAGTGCTCACTTATGTCTCCTCCTCCGAGGACTT
CACCATCCACGAAAATGCTTTCATTGTGTTCATTGCCTCATCCCTCGGGCACATGCTCCTCACCTGCATT
CTCTGGCGGTTGACCAAGAAGCACACAGTAAGTCAGGAGGATCGCAAGTCCTACAGCTGGAAACAGCGGC
TCTTCATCATCAACTTCATCTCCTTCTTCTCGGCGCTGGCTGTCTACTTTCGGCACAACATGTATTGTGA
GGCTGGAGTGTACACCATCTTTGCCATCCTGGAGTACACTGTTGTCTTAACCAACATGGCGTTCCACATG
ACGGCCTGGTGGGACTTCGGGAACAAGGAGCTGCTCATAACCTCTCAGCCTGAGGAAAAGCGATTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

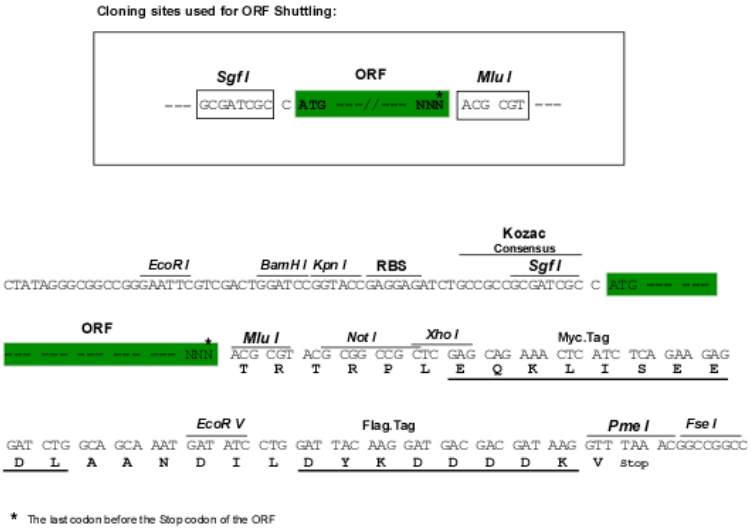
>RC233905 representing NM_001256236
Red=Cloning site Green=Tags(s)

MARLGSTGGVSGRVVTQHRDSAPFLGAPRLGLRELGPIRGTAPEWHGRWNAAERSDKMYQVPLPLDRDGT
LVRLRFTMVALVTVCCPLVAFLFCILWSLLFHFKETTATHCGATPCRMFSAASQPLDPDGTLFRLRFTAM
VWWAITFPVFGFFFCIIWSLVFHFEYTVATDCGVPNYLPSVSSAIGGEVPQRYVWRFCIGLHSAPRFLVA
FAYWNHYLSCTSPCSCYRPLCRLNFGLNVVENLALLVLTYVSSSEDFTIHENAFIVFIASSLGHMLLTCI
LWRLTKKHTVSQEDRKSYSWKQRLFIINFISFFSALAVYFRHNMYCEAGVYTIFAILEYTVVLTNMAFHM
TAWWDFGNKELLITSQPEEKRF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001256236

ORF Size: 1116 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_001256236.1, NP_001243165.1

RefSeq Size: 2071 bp

RefSeq ORF: 1119 bp

Locus ID: 27315

UniProt ID: Q9UHJ9

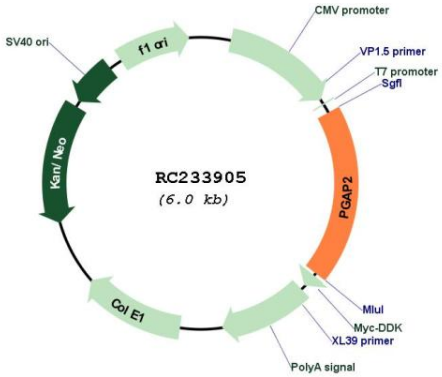
Cytogenetics: 11p15.4

Protein Families: Druggable Genome, Transmembrane

MW: 43 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 RC233905