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Product datasheet for RC213084

PGAP2 (NM_014489) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PGAP2 (NM_014489) 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:

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>RC213084 representing NM_014489
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTACCAGGTCCCACTACCACTGGATCGGGATGGGACCCTGGTACGGCTCCGCTTCACCATGGTGGCCC
TGGTCACGGTCTGCTGTCCACTTGTCGCCTTCCTCTTCTGCATCCTCTGGTCCCTGCTCTTCCACTTCAA
GGAGACAACGGCCACACACTGTGGGGCCACGCCCTGCAGGATGTTCTCTGCGGCCTCCCAGCCTTTGGAC
CCCGATGGGACCTTGTTCCGGCTTCGCTTCACAGCCATGGTCTGGTGGGCCATCACTTTTCCTGTGTTCG
GCTTCTTCTTCTGCATCATCTGGTCCCTGGTGTTCCACTTTGAGTACACGGTGGCCACTGACTGTGGGGT
GCCCAATTACCTGCCCTCGGTGAGCTCAGCCATCGGCGGGGAGGTGCCCCAGCGCTACGTGTGGCGTTTC
TGCATCGGCCTGCACTCGGCGCCTCGCTTCTTGGTGGCCTTCGCCTACTGGAACCACTACCTCAGCTGCA
CCTCCCCGTGTTCCTGCTATCGCCCGCTCTGCCGCCTCAACTTCGGCCTCAATGTCGTGGAGAACCTCGC
GTTGCTAGTGCTCACTTATGTCTCCTCCTCCGAGGACTTCACCATCCACGAAAATGCTTTCATTGTGTTC
ATTGCCTCATCCCTCGGGCACATGCTCCTCACCTGCATTCTCTGGCGGTTGACCAAGAAGCACACAGTAA
GTCAGGAGGATCGCAAGTCCTACAGCTGGAAACAGCGGCTCTTCATCATCAACTTCATCTCCTTCTTCTC
GGCGCTGGCTGTCTACTTTCGGCACAACATGTATTGTGAGGCTGGAGTGTACACCATCTTTGCCATCCTG
GAGTACACTGTTGTCTTAACCAACATGGCGTTCCACATGACGGCCTGGTGGGACTTCGGGAACAAGGAGC
TGCTCATAACCTCTCAGCCTGAGGAAAAGCGATTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
```

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Protein Sequence:

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>RC213084 representing NM_014489
Red=Cloning site Green=Tags(s)

MYQVPLPLDRDGTLVRLRFTMVALVTVCCPLVAFLFCILWSLLFHFKETTATHCGATPCRMFSAASQPLD
PDGTLFRLRFTAMVWWAITFPVFGFFFCIIWSLVFHFEYTVATDCGVPNYLPSVSSAIGGEVPQRYVWRF
CIGLHSAPRFLVAFAYWNHYLSCTSPCSCYRPLCRLNFGLNVVENLALLVLTYVSSSEDFTIHENAFIVF
IASSLGHMLLTCILWRLTKKHTVSQEDRKSYSWKQRLFIINFISFFSALAVYFRHNMYCEAGVYTIFAIL
EYTVVLTNMAFHMTAWWDFGNKELLITSQPEEKRF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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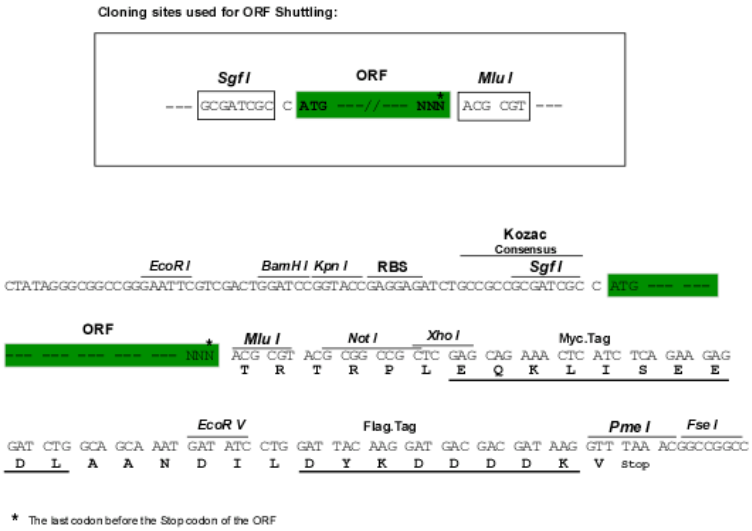
Chromatograms: https://cdn.origene.com/chromatograms/mk8008_h12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014489

ORF Size: 945 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).

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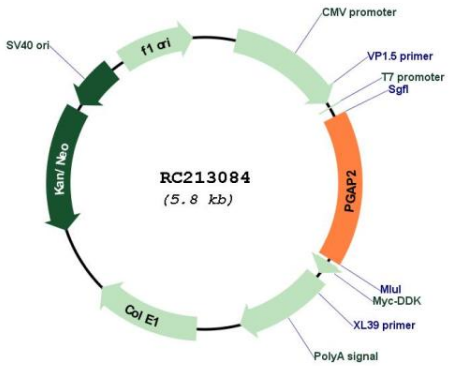
Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq:	NM_014489.4
RefSeq Size:	2040 bp
RefSeq ORF:	948 bp
Locus ID:	27315
UniProt ID:	Q9UHJ9
Cytogenetics:	11p15.4
Protein Families:	Druggable Genome, Transmembrane
MW:	36.2 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 RC213084

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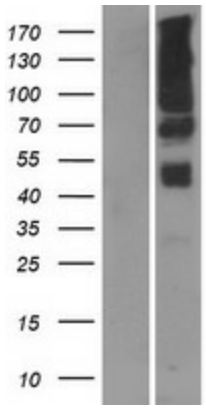

Western blot validation of overexpression lysate (Cat# [LY415247]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC213084 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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