

Product datasheet for **SC326554**

PGAP2 (NM_001145438) Human Untagged Clone

Product data:

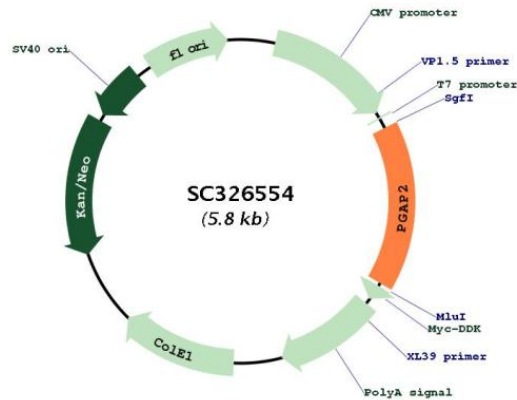
Product Type:	Expression Plasmids
Product Name:	PGAP2 (NM_001145438) Human Untagged Clone
Tag:	Tag Free
Symbol:	PGAP2
Synonyms:	CWH43-N; FRAG1; HPMRS3; MRT17; MRT21
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC326554 representing NM_001145438. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGCTAGATTGGGAAGCACCGGCGGGGTGTCGGGAAGGGTGGTGACGCAACATAGAGACTCCGCCCCC
TTCCTTGGAGCGCCGCGACTCGGGCTGAGGGAGCTCGGGCCAATCAGAGGGACGGCCCCAGAATGGCAT
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CCGTGTTCTGCTATCGCCCGCTCTGCCGCTCAACTTCGGCCTCAATGTCGTGGAGAACCTCGCGTTG
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TCTCAGCCTGAGGAAAAGCGATTCTGA
ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:


ACCN: NM_001145438

Insert Size: 924 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001145438.2](https://www.ncbi.nlm.nih.gov/RefSeq/record/NM_001145438.2)

RefSeq Size: 1876 bp

RefSeq ORF: 924 bp

Locus ID: 27315

UniProt ID: [Q9UHJ9](#)

Cytogenetics: 11p15.4

Protein Families: Druggable Genome, Transmembrane

MW: 35.1 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]
Transcript Variant: This variant (2) contains alternate 5' exon structure and thus differs in the 5' UTR and 5' coding region, lacks an alternate in-frame exon in the central coding region, and uses an alternate in-frame splice site in the 3' coding region, compared to variant 1. The encoded isoform (2) has a distinct and longer N-terminus but is overall shorter than isoform 1.