

Product datasheet for **SC319584**

PGAP6 (NM_021259) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PGAP6 (NM_021259) Human Untagged Clone
Tag:	Tag Free
Symbol:	PGAP6
Synonyms:	GPI-PLA2; M83; TMEM6; TMEM8; TMEM8A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene sequence for NM_021259.1
 GCCGGGCCGAGCGCGAGCCATGGGCCGGGCTGGCACCGGACCGGGGCGAGGCGGTGG
 CCGCGGTGGTGGCGGGGCGCTGCTGCTGCTGCTGCTTGGCCGGCCCCCGCTGCCTCCG
 CCGGCTACAGCGGAAGAGCGAGGTGGGCTGGTGTCCGAGCACTTCTACAGGCCCCGC
 AGAGGCTGTCTTCTACAGCTGGTATGGCAGTGCCAGGCTCTCCGCTTCCGCGTGCCCC
 CAGATGCTGTGCTTCTACGCTGGCTCCTGCAGGTCTCCCGGAGAGCGGCGCTGCCTGCA
 CCGACGCGGAGATCACCGTGCATTCCGTTCCGGCGCCCTCCGGTCATCAACCCGCTGG
 GCACCAAGCTTCCCGACGACACCGCGGTGCAGCCCTCCTTCCAGGTGCGGGTGCCGCTGA
 GCACCGCACCGAGAAGCAATGCCTCCGTCAACGTTTCCACCGGCCCGGGGACTGGT
 TCGTGGCCGCCACCTGCCCCCTCATCCAGAAGATCGAGTTGAAGGGCTTGGTCCCA
 CCTGTGCTACGTCTTCCAGCCTGAAGTGTGTCAGCGGGTGGTGCAGATTTCCATCA
 TGGAGCCGGACGTGCCCTTCTCAGACCCTCCTCTCCATCCAGCTACCTCAAGGTCT
 TTGTCCCCGATTACACGCGGGAGCTTCTGCTGGAGCTGCGGGACTGCGTGTCCAATGGGA
 GCCTGGGCTGCCCGTGGTCTCACCGTGGGCCCGGTACCTGCCTAGCAACTTCCAGA
 AGGTGCTCACCTGCACCGGTGCCCTGCCCCTGCCGCTGCTGCTGCCCTACCGCCCT
 GGGACCGGTGGTGCAAGTGACAGCTGAGAGCCTGGTGGGGCCCTCGGGACAGTGGCTT
 TCAGTGCTGTAGCTGCCCTCACAGCTTGACAGGCCACGGAGCGTGACCGTCCAGCCCTTC
 TGCAGAGCAGCCAAAACAGAGCTTCAATGCCTCCTCTGGTCTGCTGTCCCCGAGCCCCG
 ACCACAGGACCTGGGCAGGAGTGGCAGGGTGGACCGCAGCCCTTCTGCCTCACAACT
 ACCCAGTACGCGGGGAGGACATGGACGTGGTGTGCGGTGCACTTCCAGCCCTGGACAGGG
 TCTCGGTGAGGGTGTGTTCCGACACGCCCTCCGTGATGCGGTGCGCCTGAACACCGGCA
 TGGACAGCGGGGGTTCCCTCACCATCTCCCTGCGGGCCAAAGACAGAGATGCGGAACG
 AGACCTCGTAGTGGCTGCGTGAATGCTGCCTCGCCCTTCTTGGCTTCAATACTTCGC
 TCAACTGCACCAAGCCCTTCTTCCAGGGTACCTTTGTCTGTAGCGCCTGGTCTCGCA
 GGGCCAACTCATCATCCCTACCCAGAGACAGAACTGGTACCTCTCCCTGCAGCTCA
 TGTGCCCTGAGAAATGCTGAGGACTGTGAGCAGGCTGTGGTCCACGTGGAGACCACCTGT
 ACCTGGTGCCCTGTTTGAACGATTGTGGACCCTATGGCCAGTGCCTCCTGCTCCGACAG
 ACAGCTACCTGTATGCCAGCTGCAGTGCAGGAGGCTGGCGTGGTGGAGCTGCACGG
 ACAACAGCACAGCCAGACGGTGGCCAGCAGAGGGCGGCCACACTGCTGCTCACGCTCA
 GCAACCTCATGTTCTTGGCCCCATCGCCGTCTCAGTGCGGCGATTCTTCTGGTGGAGG
 CCTCGGTCTACGCTACACCATGTTCTTCTCCAGTTCTACCAGCCTGCGACCAAGCCG
 GGGAGGGCGGTGCTGTGCATCCTCAGCTACGACACGCTGCAGTACTGCGACTTCTTGGGT
 CCGGGGCGGCCATCTGGGTACCATCCTGTGCATGGCACGGCTCAAGACAGTCTGAAAT
 ACGTGTGTTTTCTTCTGGGTACACTGGTCATCGCCATGTCCTTGCAGTGGACCGCAGGG
 GCATGTGGAACATGCTGGGGCCCTGCCTCTTGGCTTCTGATCATGGCCTCCATGTGGG
 CTTACCGCTGCGGGCACCGGCGCCAGTGTACCCACCTCGTGGCAGCGCTGGGCCTTCT
 ACCTCTGCCCCGCGTCTCTATGGCCTCTGTGGCATCGCCATCTACACCTCCATGATGA
 CTAGCGACAATACTACTACACCCACAGCATCTGGCACATCCTGCTGGCCGGGAGCGCAG
 CTTTGTGCTGCGGCCACCTGACCAGCCCGCGAGCCCTGGGCCTGCTCGCAGAAATTCC
 CTGCCACTATCAGATCTGCAAGAACGATCGGGAGGAAGTGTACGCAAGTACGTGACACT
 GGCTGGGACAGCTGCTGCTGATGACCTTTAGCCAGGAGCTGTATCGAGGGGGAG
 GCGCCTGGTCCAGCCCTGGACAGATTGATTTCCAGCTGAATAAATTGGCCTAGATACCAA
 AAAAAAAAAAAAAAAAAAAAAA

Restriction Sites:

Please inquire

ACCN:

NM_021259

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:	<u>NM_021259.1</u> , <u>NP_067082.1</u>
RefSeq Size:	2561 bp
RefSeq ORF:	2316 bp
Locus ID:	58986
UniProt ID:	<u>Q9HCN3</u>
Cytogenetics:	16p13.3
Protein Families:	Transmembrane
Gene Summary:	Involved in the lipid remodeling steps of GPI-anchor maturation. Lipid remodeling steps consist in the generation of 2 saturated fatty chains at the sn-2 position of GPI-anchor proteins (GPI-AP). Has phospholipase A2 activity that removes an acyl-chain at the sn-2 position of GPI-anchors during the remodeling of GPI. Required for the shedding of the GPI-AP TDGF1, but not CFC1, at the cell surface. Shedding of TDGF1 modulates Nodal signaling by allowing soluble TDGF1 to act as a Nodal coreceptor on other cells (PubMed:27881714). Also indirectly involved in the translocation of RAC1 from the cytosol to the plasma membrane by maintaining the steady state amount of CAV1-enriched plasma membrane subdomains, stabilizing RAC1 at the plasma membrane (PubMed:27835684). In contrast to myomaker (TMEM8C), has no fusogenic activity (PubMed:26858401).[UniProtKB/Swiss-Prot Function]