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Product datasheet for SC311252

PGP (NM_001042371) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PGP (NM_001042371) Human Untagged Clone
Tag:	Tag Free
Symbol:	PGP
Synonyms:	AUM; G3PP; PGPase
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001042371, the custom clone sequence may differ by one or more nucleotides

ATGGCGGCGGCGGAGGCCGGTGGCGACGACGCCCGCTGCGTGCGGCTGAGCGCCGAGCGGGCACAGGCGC
TGCTGGCCGACGTGGACACGCTGCTGTTCGACTGCGACGGCGTGCTGTGGCGCGGGGAGACCGCCGTGCC
TGGCGCGCCCGAGGCCCTGCGGGCGCTGCGAGCCCGCGGCAAGCGCCTGGGCTTCATCACCAACAACAGC
AGCAAGACCCGCGCTGCCTACGCCGAGAAGCTGCGGCGCCTGGGCTTCGGCGGCCCCGCGGGGCCCGGCG
CCAGCCTGGAGGTCTTCGGCACGGCCTACTGCACCGCGCTCTACCTGCGCCAGCGCCTGGCCGGCGCCCC
CGCGCCCAAGGCCTACGTGCTGGGCAGCCCAGCCCTGGCCGCGGAGCTGGAGGCCGTGGGCGTCGCCAGC
GTGGGCGTGGGGCCCGAGCCACTGCAGGGCGAGGGTCCCGGCGACTGGCTGCACGCGCCGCTGGAGCCCG
ACGTGCGCGCGGTGGTGGTGGGCTTTGACCCGCACTTCAGCTACATGAAGCTCACCAAGGCCCTGCGCTA
CCTGCAGCAGCCCGGCTGCCTGCTCGTGGGCACCAACATGGACAACCGGCTTCCGCTTGAGAACGGCCGC
TTCATCGCGGGTACCGGGTGTCTGGTCCGAGCCGTGGAGATGGCCGCCCAGCGCCAGGCCGACATCATCG
GGAAGCCCAGCCGCTTCATTTTCGACTGCGTGTCCCAGGAATACGGCATCAACCCCGAGCGCACCGTCAT
GGTGGGAGACCGCCTGGACACAGACATCCTCCTAGGCGCCACCTGTGGCCTGAAGACCATCCTGACCCTC
ACCGGAGTCTCCACTCTAGGGGATGTGAAGAATAATCAGGAAAGTGACTGCGTGTCTAAGAAGAAAATGG
TCCCTGACTTCTATGTTGACAGCATAGCCGACCTTTTGCCTGCCCTTCAAGGTTAA

Restriction Sites:	Please inquire
ACCN:	NM_001042371

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OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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 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_001042371.1, NP_001035830.1
RefSeq Size:	1041 bp
RefSeq ORF:	966 bp
Locus ID:	283871
UniProt ID:	A6NDG6
Cytogenetics:	16p13.3
Protein Pathways:	Glyoxylate and dicarboxylate metabolism, Metabolic pathways
Gene Summary:	Glycerol-3-phosphate phosphatase hydrolyzing glycerol-3-phosphate into glycerol. Thereby, regulates the cellular levels of glycerol-3-phosphate a metabolic intermediate of glucose, lipid and energy metabolism. Was also shown to have a 2-phosphoglycolate phosphatase activity and a tyrosine-protein phosphatase activity. However, their physiological relevance is unclear (PubMed:26755581). In vitro, has also a phosphatase activity toward ADP, ATP, GDP and GTP (By similarity).[UniProtKB/Swiss-Prot Function]