

Product datasheet for **RN216358**

Pgp (NM_001169152) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pgp (NM_001169152) Rat Untagged Clone
Tag: Tag Free
Symbol: Pgp
Synonyms: AUM; G3PP; RGD1307773
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN216358 representing NM_001169152
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGC**C

ATGGCGGAGGCGGAGGCCGGCGGACGAAGTCCGCTGCGTGCGGCTGAGCGCCGAGCGGGCCAAGTTGC
TGCTGGCCGAAGTGGACACGCTGCTGTTGACTGCGATGGCGTGTGGCGCGGAGACGGCCGTGCC
GGGCGCGCGGAGACTCTGCGGGCGCTGCGGGCCCGCGCAAGCGACTGGGCTTCATCACCAACAACAGC
AGCAAGACTCGTACGGCCTACGCGGAGAAGCTCAGGCGCTTGGGTTTCGGTGGCCCGATGGGCCCCGAAG
CGGGCCTCGAGGTCTTCGGCACGGCCTACTGCAGCGCGCTCTATCTGCGCCAACGCTGGCCGGCGTGCC
GGACCCCAAGGCCTACGTGCTGGGCAGCCCGGCCTTAGCCGCGGAGCTGGAGGCCGTGGGTGTCCTAGC
GTGGGCGTGGGCCGGACGTGCTTACGGCGATGGCCCAAGCGACTGGCTAGCCGTGCCGCTCGAACCCG
ACGTGCGCGCGGTAGTGGTGGGCTTCGACCCACACTTCAGCTACATGAAGCTTACCAAGGCCGTGCGGTA
CCTGCAGCAGCCGACTGTCTGCTGCTGGGCACCAACATGGACAACCGGCTCCCGCTAGAGAACGGCCGT
TTCATTGCGGGTACCGGCTGTCTGGTGCAGCCGTGGAGATGGCCGCCAGCGCCAGCGCGGACATCATCG
GGAAGCCTAGCCGCTTCATCTTCGACTGCGTGTCCAGGAGTATGGTATCAACCCGGAGCGCACCCGTCAT
GGTGGGAGACCGCTGGACACAGACATCCTCCTGGGCTCCACCTGAGCCTGAAGACTATCCTGACCCCTC
ACCGGAGTCTCCAGTCTTGAGGATGTGAAGAGCAATCAGGAAAAGTACTGCATGTTCAAGAAGAAAATGG
TCCTGACTTCTATGTTGACAGCATAGCCGACCTCTTGCCTGCCCTCAAGGT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001169152
Insert Size: 966 bp



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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:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<ol style="list-style-type: none">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_001169152.1</u> , <u>NP_001162623.1</u>
RefSeq Size:	2535 bp
RefSeq ORF:	966 bp
Locus ID:	287115
UniProt ID:	<u>D3ZDK7</u>
Cytogenetics:	10q12
Gene Summary:	Glycerol-3-phosphate phosphatase hydrolyzing glycerol-3-phosphate into glycerol (PubMed:26755581). 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 (By similarity). In vitro, has also a phosphatase activity toward ADP, ATP, GDP and GTP (By similarity).[UniProtKB/Swiss-Prot Function]