

## Product datasheet for **RR216358**

### **Pgp (NM\_001169152) Rat Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Pgp (NM\_001169152) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Pgp  
**Synonyms:** AUM; G3PP; RGD1307773  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR216358 representing NM\_001169152  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCGGAGGCGGAGGCCGGCGGACGAAGTCCGCTGCGTGCGGCTGAGCGCCGAGCGGGCCAAGTTGC  
TGCTGGCCGAAGTGACACGCTGCTGTTTCGACTGCGATGGCGTGTGTGGCGCGGAGACGGCCGTGCC  
GGGCGCGCGGAGACTCTGCGGGCGCTGCGGGCCCGCGCAAGCGACTGGGCTTCATCACCACAACAGC  
AGCAAGACTCGTACGGCCACGCGGAGAAGCTCAGGCGCTTGGGTTTCGGTGGCCCGATGGGCCCCGAAG  
CGGGCCTCGAGGTCTTCGGCACGGCCTACTGCAGCGCGCTCTATCTGCGCCAACGCTGGCCGGCGTGCC  
GGACCCCAAGGCCTACGTGCTGGGCAGCCCGGCCCTTAGCCGCGGAGCTGGAGGCCGTGGGTGTCCTAGC  
GTGGGCGTGGGCCGGACGTGCTTACGGCGATGGCCCAAGCGACTGGCTAGCCGTGCCGCTCGAACCCG  
ACGTGCGCGCGGTAGTGGTGGGCTTCGACCCACACTTCAGCTACATGAAGCTTACCAAGGCCGTGCGGTA  
CCTGCAGCAGCCGACTGTCTGCTGCTGGGCACCAACATGGACAACCGGCTCCCGCTAGAGAACGGCCGT  
TTCATTGCGGGTACCGGCTGTCTGGTGCAGCCGTGGAGATGGCCGCCAGCGCCAGCGCCGACATCATCG  
GGAAGCCTAGCCGCTTCATCTTCGACTGCGTGTCCAGGAGTATGGTATCAACCCGGAGCGCACCCATCG  
GGTGGGAGACCGCTGGACACAGACATCCTCCTGGGCTCCACCTGAGCCTGAAGACTATCCTGACCCTC  
ACCGGAGTCTCCAGTCTTGAGGATGTGAAGAGCAATCAGGAAAAGTACTGCATGTTCAAGAAGAAAATGG  
TCCTGACTTCTATGTTGACAGCATAGCCGACCTCTTGCCTGCCCTTCAAGGT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR216358 representing NM\_001169152  
 Red=Cloning site Green=Tags(s)

MAEAEAGGDEVRCVRLSAERAKLLLAEVDTLFLDCDGVLRGETAVPGAPETLRALRARGKRLGFITNNS  
 SKTRTAYAEKLRRLGFGGPMGPEAGLEVFGTAYCSALYLRQRLAGVDPKAYVVGSPALAAELEAVGVT  
 VGVPDVLHGDGSDWLAVPLEPDVRAVVVGFDPHFSYMKLTKAVRYLQQPDCLLVGTNMDNRLPLEN  
 RFIAGTGCLVRAVEMAAQRQADIIGKPSRFIFDCVSEQEYGINPERTVMVGDRLDITLLGSTCSLKTIL  
 TLTGVSSELDVYKSNQESDCMFKKKMPDFYVDSIADLLPALQG

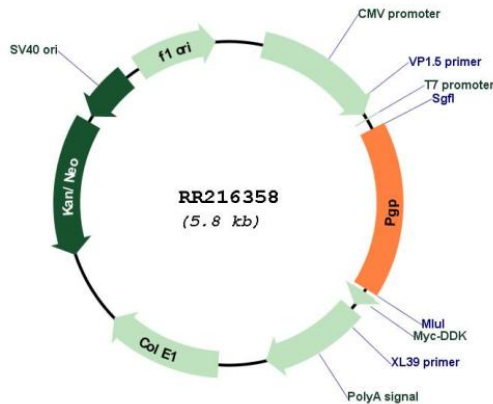
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001169152

**ORF Size:** 963 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001169152.1</a> , <a href="#">NP_001162623.1</a>
<b>RefSeq Size:</b>	2535 bp
<b>RefSeq ORF:</b>	966 bp
<b>Locus ID:</b>	287115
<b>UniProt ID:</b>	<a href="#">D3ZDK7</a>
<b>Cytogenetics:</b>	10q12
<b>MW:</b>	34.6 kDa
<b>Gene Summary:</b>	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]