

## Product datasheet for **MR216973**

### **Pgp (NM\_025954) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Pgp (NM\_025954) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Pgp  
**Synonyms:** 1700012G19Rik; AI481330; AUM; G3PP  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >MR216973 ORF sequence  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGCAGAGGGCGGAAGCCGGTGGCGACGAAGCCCGCTGCGTGCGGCTGAGCGCCGAGCGGGCCAAGTTGC  
TGCTGGCCGAGGTGGACACGCTGCTGTTTCGACTGCGATGGCGTGCTGTGGCGGGTGGAGCGCCGTGCC  
GGGCGCGCCGGAGACTCTGCGGGCTCTGCGGGCCCGCGCAAGCGACTGGGCTTCATCACCACAACAGC  
AGCAAGACTCGCACGGCTACGCGGAGAAGCTAAGGCGCTTGGGTTTCGCGCGCCCGGTGGGCCCCGAAG  
CTGGCCTCGAGGTGTTCCGCACGGCCTATTGCAGCGCGCTCTATCTGCGCCAACGCTGGCCGGCGTGCC  
GGACCCCAAGGCCTACGTGCTGGGCAGCCCGCCCTTAGCAGCCGAGCTGGAGGCCGTGGGTGCTACTAGC  
GTGGGCGTGGGCCGGACGTGCTTACGGCGATGGCCCCAGCGACTGGCTAGCCGTGCCGCTCGAACCCG  
ACGTGCGCGCGGTAGTGGTGGGCTTCGACCCACACTTCAGCTACATGAAGCTCACCAGGCCGTGCGGTA  
CCTGCAGCAGCCGACTGTCTGCTCGTGGGCACCAACATGGACAACCGGCTCCCGCTAGAGAACGGCCGT  
TTCATTGCGGGTACCGGCTGTCTGGTGCAGCCGTGGAGATGGCCGCCAGCGCCAGCGCGGACATCATCG  
GGAAGCCTAGCCGTTTCATCTTCGACTGCGTGTCCAGGAGTATGGTATCAACCCGGAGCGCACCCGTCG  
GGTGGGAGACCGCTGGACACAGACATCCTCCTGGGCTCCACCTGAGCCTGAAGACTATCCTGACCCTC  
ACCGGAGTCTCCAGTCTTGAGGATGTGAAGAGCAATCAGGAAAAGTACTGCATGTTCAAGAAGAAAATGG  
TCCTGACTTCTATGTTGACAGCATTGCCGACCTCTTGCCTGCCCTTCAAGGT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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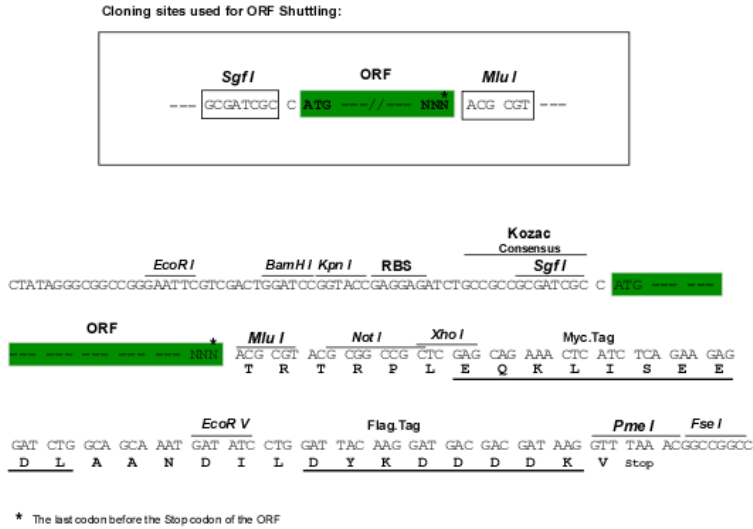
**Protein Sequence:** >MR216973 protein sequence  
 Red=Cloning site Green=Tags(s)

MAEAEAGGDEARCVRLSAERAKLLLAEVDTLFLDCDGLWRGETAVPGAPETLRLRARGKRLGFITNNS  
 SKTRTAYAEKLRRLGFGGPGVPEAGLEVFGTAYCSALYLRQRLAGVDPKAYVLGSPALAAELEAVGVT  
 VGVPDVLHGDGSDWLAVPLEPDVRAVVVGFDPHFSYMKLTKAVRYLQQPDCLLVGTNMDNRLPLEN  
 RFIAGTGCLVRAVEMAAQRQADIIGKPSRFIFDCVSEQEYGINPERTVMVGDRLDTDILLGSTCSLKTIL  
 TLTGVSSELDVYKSNQESDCMFKKKMPDFYVDSIADLLPALQG

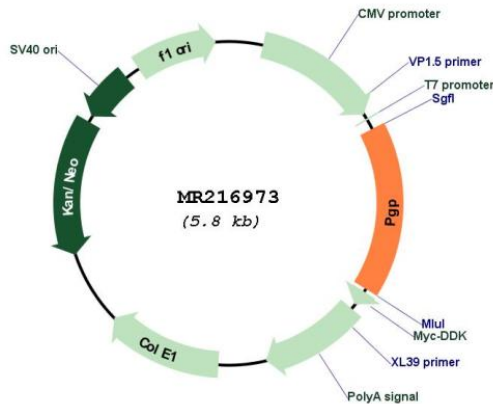
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_025954

**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_025954.4</a>
<b>RefSeq Size:</b>	2593 bp
<b>RefSeq ORF:</b>	966 bp
<b>Locus ID:</b>	67078
<b>UniProt ID:</b>	<a href="#">Q8CHP8</a>
<b>Cytogenetics:</b>	17 A3.3
<b>MW:</b>	34.5 kDa
<b>Gene Summary:</b>	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 (PubMed:26755581). Was also shown to have a 2-phosphoglycolate phosphatase activity and a tyrosine-protein phosphatase activity. However, their physiological relevance is unclear (PubMed:26755581, PubMed:24338473). In vitro, has also a phosphatase activity toward ADP, ATP, GDP and GTP (PubMed:24338473).[UniProtKB/Swiss-Prot Function]