

## Product datasheet for RC219602

### MPG (NM\_002434) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MPG (NM_002434) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MPG
Synonyms:	AAG; ADPG; anpg; APNG; CRA36.1; MDG; Mid1; PIG11; PIG16
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC219602 representing NM_002434 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGTCACCCCGCTTTGCAGATGAAGAAACAAAGCAGTTTTGCCGACGGATGGGGCAAAGAAGCAGC  
GACCAGCTAGAGCAGGGCAGCCACACAGCTCGTCCGACGCAGCCAGGCACCTGCAGAGCAGCCACACAG  
CTCGTCCGATGCAGCCAGGCACCTTGCCCGAGGAGCGCTGCTTGGGACCGCCACCCTCCGGGCCCA  
TACCGCAGCATCTATTTCTCAAGCCAAAGGGCCACCTTACCCGACTGGGGTTGGAGTCTTCGACCAGC  
CGGCAGTCCCCCTGGCCCGGCATTTCTGGGACAGGTCCTAGTCCGGCGACTTCCCTAATGGCACAGA  
ACTCCGAGGCCGATCGTGGAGACCGAGGCATACCTGGGGCCAGAGGATGAAGCCGCCACTCAAGGGGTGGC  
CGGCAGACCCCCGCAACCGAGGCATGTTTCATGAAGCCGGGGACCCTGTACGTGTACATCATTTACGGCA  
TGTAATTCTGCATGAACATCTCCAGCCAGGGGGACGGGGCTTGCCTTGTCTGCGAGCACTGGAGCCCT  
GGAAGGTCTGGAGACCATGCGTCAGCTTCGAGCACCCCTCCGAAAGGCACCGCCAGCCGTGTCTCAAG  
GACCGCAGCTCTGCAGTGGCCCTCCAAGCTGTGCCAGGCCCTGGCCATCAACAAGAGCTTTGACCAGA  
GGGACCTGGCACAGGATGAAGCTGTATGGCTGGAGCGTGGTCCCCTGGAGCCAGTGAGCCGGCTGTAGT  
GGCAGACGCCCGGTGGCGTCGCCATGCAGGGGAGTGGGCCCGAAACCCCTCCGCTTCTATGTCCGG  
GGCAGCCCTGGGTGAGTGTGGTCGACAGAGTGGCTGAGCAGGACACACAGGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC219602 representing NM\_002434  
 Red=Cloning site Green=Tags(s)

MVTPALQMKKPKQFCRRMGQKKQRPARAGQPHSSSDAAQAPAEQPHSSSDAAQAPCPRERCLGPPTTPGP  
 YRSIYFSSPKGHLTRLGLEFFDQPAVPLARAFLGQVLVRRLPNGTELGRIVETEAYLGPEDAAHSRGG  
 RQTPRNRGMFMKPGTLYVYIIYGMYFCMNISSQGDGACVLLRALEPLEGLETMRQLRSTLRKGTASRVLK  
 DRELCSPGSKLQALAINKSFQDRDLAQDEAVWLERGPLEPSEPAVVAAAARVGVGHAGEWARKPLRFYVR  
 GSPWVSVDRAEQDTQA

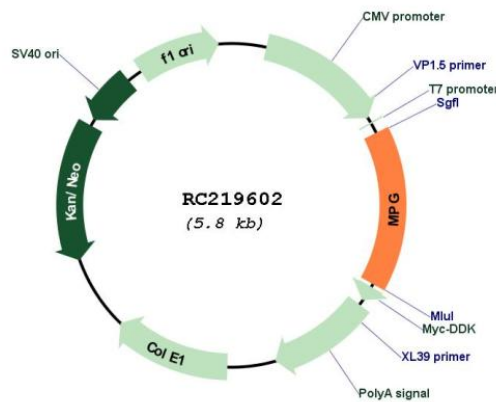
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_002434

**ORF Size:** 894 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_002434.4</a>
<b>RefSeq Size:</b>	1289 bp
<b>RefSeq ORF:</b>	897 bp
<b>Locus ID:</b>	4350
<b>UniProt ID:</b>	<a href="#">P29372</a>
<b>Cytogenetics:</b>	16p13.3
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Base excision repair
<b>MW:</b>	32.9 kDa
<b>Gene Summary:</b>	Hydrolysis of the deoxyribose N-glycosidic bond to excise 3-methyladenine, and 7-methylguanine from the damaged DNA polymer formed by alkylation lesions. [UniProtKB/Swiss-Prot Function]