

## Product datasheet for **RG212812**

### MPG (NM\_001015052) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** MPG (NM\_001015052) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** MPG  
**Synonyms:** AAG; ADPG; anpg; APNG; CRA36.1; MDG; Mid1; PIG11; PIG16  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG212812 representing NM\_001015052  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCCGCGCGCAGCGGGGCCAGTTTTGCCGACGGATGGGGCAAAGAAGCAGCGACCAGCTAGAGCAG  
 GGCAGCCACACAGCTCGTCCGACGCAGCCAGGCACCTGCAGAGCAGCCACACAGCTCGTCCGATGCAGC  
 CCAGGCACCTTGCCCGAGGGAGCGCTGCTTGGGACCGCCACCACTCCGGGCCATACCGCAGCATCTAT  
 TTCTCAAGCCAAAGGGCCACCTTACCCGACTGGGTTGGAGTTCTTCGACCAGCCGGCAGTCCCCCTGG  
 CCCGGCATTCTGGGACAGGTCTAGTCCGGCGACTTCTAATGGCACAGAAGTCCGAGGCCGATCGT  
 GGAGACCGAGGCATACCTGGGGCCAGAGGATGAAGCCGCCCACTCAAGGGGTGGCCGGCAGACCCCCGC  
 AACCGAGGCATGTTTCATGAAGCCGGGACCTGTACGTGTACATCATTTACGGCATGTACTTCTGCATGA  
 ACATCTCCAGCCAGGGGGACGGGCTTGCCTTGTGCGAGCACTGGAGCCCCTGGAAGGTCTGGAGAC  
 CATGCGTCAGCTTCGCAGCACCTCCGAAAGGCACCGCCAGCCGTGTCCTCAAGGACCGCAGCTCTGC  
 AGTGGCCCTCCAAGCTGTGCCAGGCCCTGGCCATCAACAAGAGCTTTGACCAGAGGGACCTGGCACAGG  
 ATGAAGCTGTATGGCTGGAGCGTGGTCCCTGGAGCCAGTGAGCCGGCTGTAGTGGCAGCAGCCCGGT  
 GGGCGTCGGCCATGCAGGGGAGTGGGCCCGAAACCCCTCCGCTTCTATGTCGGGGCAGCCCTGGGTC  
 AGTGTGGTCGACAGAGTGGCTGAGCAGGACACACAGGCC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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Protein Sequence: >RG212812 representing NM\_001015052  
 Red=Cloning site Green=Tags(s)

MPARSGAQFCRRMGQKKQRPARAGQPHSSSDAAQAPAEQPHSSSDAAQAPCPRERCLGPPTTPGYPYSIY  
 FSSPKGHLTRLGLEFFDQPAVPLARAFLGQVLVRRLPNGTELRGRIVETEAYLGPEDAAHSRGGRTPR  
 NRGFMFKPGTLVYVYIYGMVFCMNISSQGDGACVLLRALEPLEGLETMRQLRSTLRKGTASRVLKDRELC  
 SGPSKLCQALAINKSFQDRDLAQDEAVWLERGPLEPSEPAVVAAAARVGVGHAGEWARKPLRFYVRGSPWV  
 SVVDRVAEQDTQA

TRTRPLE - GFP Tag - V

Restriction Sites:

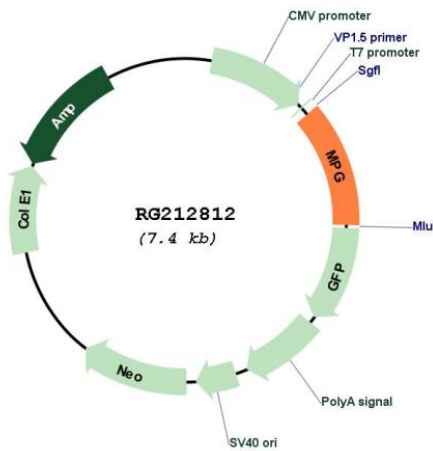
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM\_001015052

ORF Size: 879 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_001015052.3</a>
<b>RefSeq Size:</b>	1096 bp
<b>RefSeq ORF:</b>	882 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>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]