

Product datasheet for **RC204933**

MPG (NM_001015054) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MPG (NM_001015054) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MPG
Synonyms:	AAG; ADPG; anpg; APNG; CRA36.1; MDG; Mid1; PIG11; PIG16
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204933 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCCCGCGCGCAGCGGGGCCAGTTTTGCCGACGGATGGGGCAAAGAAGCAGCGACCAGCTAGAGCAG
GGCAGCCACACAGCTCGTCCGACGCAGCCAGGCACCTGCAGAGCAGCCACACAGCTCGTCCGATGCAGC
CCAGGCACCTTGCCCCAGGGAGCGCTGCTTGGGACCGCCACCACTCCGGGCCATACCGCAGCATCTAT
TTCTCAAGCCAAAGGGCCACCTTACCCGACTGGGTTGGAGTTCTTCGACCAGCCGGCAGTCCCCCTGG
CCCGGGCATTCTGGGACAGGTCTAGTCCGGCGACTTCTAATGGCACAGAAGTCCGAGGCCGATCGT
GGAGACCGAGGCATACCTGGGGCCAGAGGATGAAGCCGCCCACTCAAGGGGTGGCCGGCAGACCCCCGC
AACCGAGGCATGTTATGAAGCCGGGACCCTGTACGTGTACATCATTTACGGCATGTACTTCTGCATGA
ACATCTCCAGCCAGGGGGACGGGCTTGCCTTGTGCGAGCACTGGAGCCCCTGGAAGGTCTGGAGAC
CATGCGTCAGCTTCGCAGCACCCCTCCGAAAGGCACCGCCAGCCGTGTCCTCAAGGACCGCGAGCTCTGC
AGTGGCCCTCCAAGCTGTGCCAGGCCCTGGCCATCAACAAGAGCTTTGACCAGAGGGACCTGGCACAGG
ATGAAGCTGTATGGCTGGAGCGTGGTCCCTGGAGCCAGTGAGCCGGCTGTAGTGGCAGCAGCCCCGGT
GGCGTCCGCCATGCAGGGGAGTGGGCCGAAACCCCTCCGCTTCTATGTCCGGGCAGCCCCCTGGTC
AGTGTGGTCGACAGAGTGGCTGAGCAGGACACACAGGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >RC204933 protein sequence
Red=Cloning site Green=Tags(s)

MPARSGAQFCRRMGQKKQRPARAGQPHSSSDAAQAPAEQPHSSSDAAQAPCPRERCLGPPTTPGPYRSIY
 FSSPKGHLTRLGLEFFDQPAVPLARAFLGQVLVRRLPNGTELGRIVETEAYLGPEDAAHSRGGRTPR
 NRGFMFKPGTLVYVYIIYGMFYCMNISSQGDGACVLLRALEPLEGLETMRQLRSTLRKGTASRVLKDRELC
 SGPSKLCQALAINKSFQDRDLAQDEAVWLERGPLEPSEPAVVAAAARVGVGHAGEWARKPLRFYVRGSPWV
 SVVDRVAEQDTQA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6437_d07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001015054

ORF Size: 879 bp

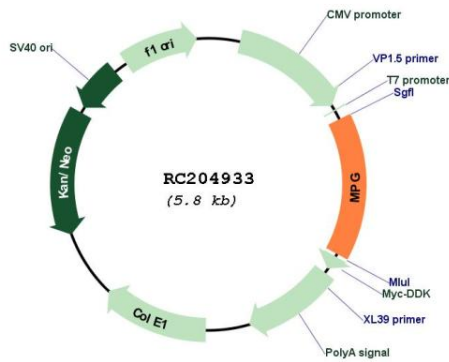
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

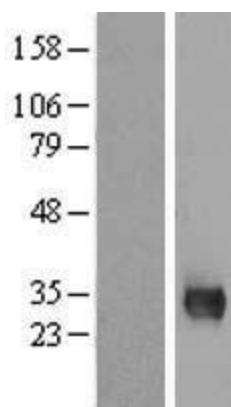
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- Reconstitution Method:**
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 Size:** 1039 bp
- RefSeq ORF:** 846 bp
- Locus ID:** 4350
- UniProt ID:** [P29372](#)
- Cytogenetics:** 16p13.3
- Protein Families:** Druggable Genome, Transmembrane
- Protein Pathways:** Base excision repair
- MW:** 32.2 kDa
- Gene Summary:** 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]

Product images:



Circular map for RC204933



Western blot validation of overexpression lysate (Cat# [LY423120]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204933 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).