

Product datasheet for **MR216901**

Mpp7 (NM_001081287) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mpp7 (NM_001081287) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mpp7
Synonyms:	1110068J02Rik; 2810038M04Rik; 5430426E14Rik; AI415104; Gm955
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR216901 representing NM_001081287
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCAGCGCTGGCCACAGGATCGGCTTGCACATGGGTCTGTATGAGCTGTTGGCTGCTCTGCCTGCC
 AGCTGCAGCCACATGTGGATAGCCAGGAGGACCTGACCTTCCTCTGGGACGTGTTTGGTGAAAAGAGCCT
 GCATTCAGTGGTCAAGATTTCATGAAAACTTCACTGCTATGAGAAGCAGAATCCGTTGCCATTCTCCAT
 GGTGCAGCAGCGTTGGCTGATGATCTGACTGAAGAGCTACAGAACAAGCTACCAACAGTGAGATCAGAG
 AGCTGTTGAACTGCTGTCAAACCCAATGTCAAGGCTTTGCTGTCAGTACATGATACTGTGGCTCAAAA
 GAGTTATGATCCTGTATTGCCTCCCGTGCCTGACGATATTGATGATGAGGAAGACTCTGTGAAAATAATC
 CGCCTGGTCAAAAATAGCGAGCCCTGGGTGCTACCATTAAGAAAGATGAGCAGACCGGAGCAATCACTG
 TGGCCCGAATCATGCGGGGAGGAGCTGCAGATAGAAGTGGTCTTATTCACGTGGGTGATGAGCTGAGGGA
 AGTGAATGGAATCCAGTGGAAGATAAGAGGCCTGAGGAAATAATAAAGATTTTGAGTCAGTCCAAGGGA
 GCAATTACATTTAAGATAATACCCAGCACCAAGAGGAGACACCTTCGAAAGAAGGCAAGATATTTATCA
 AAGCCCTCTTTGACTACGATCCTAAGGAAGACAAGGCAATCCCGTGTAAGAGGCAGGGCTGTCTTTGAG
 GAAGGGGGACATTCTCAGATTATGAGCCAAGATGATGTGACATGGTGGCAGGCTAAGCATGAAGGAGAT
 GCCAACCCAGAGCGGGCCTGATTCCTCCCAAGCACTTCAGGAACGGAGACTGGCTCTGAGACGACCAG
 AAATAGTAGTTCAGCCTCTGAACTTTCCAACACGAAATCATCTGGTTTTAGAAGAAGTTTCCGCTTAG
 CAGAAAAAATAAGAAAAATAAAGTCCATGTATGAATGCAAAAAGAGTGAGCAGTATGACACGGCAGAT
 GTGCCCACATATGAGGAGGTGACACCTACCGCGGCAGATCCATGACAAATACAGACTCATTGTCTGG
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 TGTGATAGTGCCCCACACCACTAGAGCAAGAAGCAAGAGAGTGATGGTGTGGAATATATTTTTATT
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 GCCTCATACAGTGAAGCATTTAAGGACTGGAGTTCAAACCTATGTGATATTTATAAACCTCCATCC
 ATAGAGCGTTTGAGAGAGACAAGAAAAATGCAAAGATTATTTCAAGCAGAGATGACCAAGGAGTGCAA
 AGCCCTTCACGGAAGAAGACTTTGAGGAAATGATTAAATCAGCACAGATAATGGAAGTCAATATGGCCA
 TCTTTTGAACAAATCATAATCAATGATGATCTTACTGTGGCATTATGAGCTAAAAACAACATTTGAC
 AAAGTAGAGACTGATACCATTTGGTCCAGTGAGTTGGTTACATTCA

ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR216901 representing NM_001081287
 Red=Cloning site Green=Tags(s)

MPALATGSACDMGLYELLAALPAQLQPHVDSQEDLTFLWDVFGEKSLHSLVKIHEKLHCYEKQNPLPILH
 GAAALADDLTELQNKLPNSEIRELLKLLSKPNVKALLSVHDTVAQKSYDPVLPVPDDIDDEEDSVKII
 RLVKNSEPLGATIKKDEQTGAITVARIMRGAADRSLIHVGDELREVNIPVEDKRPEEIIKILSQSKG
 AITFKIIPSTKEETPSKEGKIFIKALFDYDPKEDKAIPCKEAGLSFRKGDILQIMSQDDVTWWQAKHEGD
 ANPRAGLIPSKHFQERRALRRPEIVVQPLKLSNTKSSGFRRSFRLSRKNKKINKSMYECKKSEQYDTAD
 VPTYEEVTPYRRQIHDKYRLIVLVGPVGVLNELKRLLMSDAQHYGVIVPHTTRARRSQESDGEYEIFI
 SKHLFETDVQNNKFIEYGEYKNYYGTSIDSVRSVLAKNVCLLDVQPHTVKHLRTLFEKPYVIFIKPPS
 IERLRETRKNAKIISSRDDQGTAKPFTTEEDFQEMIKSAQIMESQYGHFLDKIIINDDLTVAFNELKTTFD
 KLETDTHWVPVSWLHS

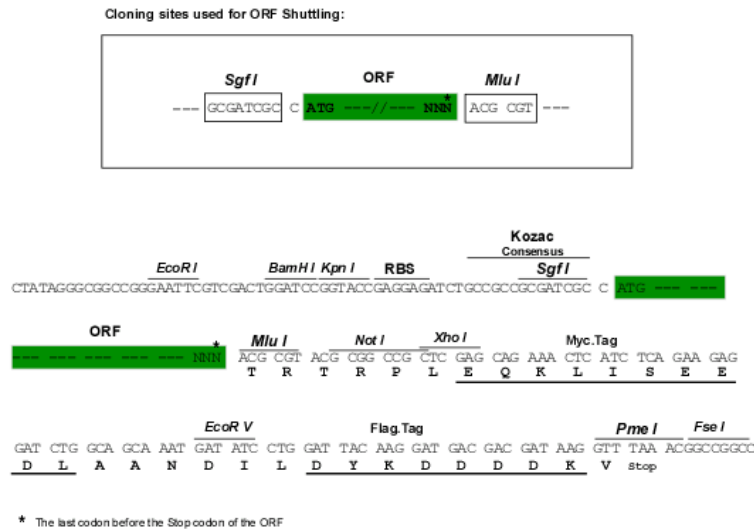
TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9079_f11.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001081287

ORF Size: 1728 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001081287.2](#), [NP_001074756.2](#)

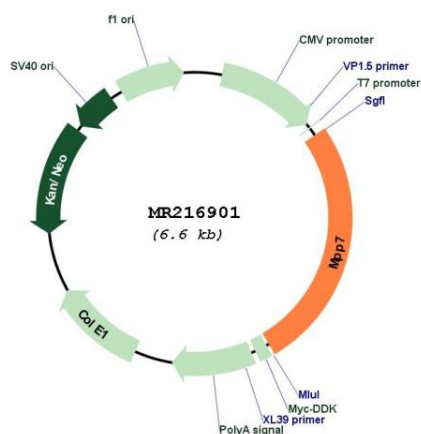
RefSeq Size: 4975 bp

RefSeq ORF: 1731 bp

Locus ID: 75739

UniProt ID:	<u>Q8BVD5</u>
Cytogenetics:	18 A1
MW:	65.5 kDa
Gene Summary:	Acts as an important adapter that promotes epithelial cell polarity and tight junction formation via its interaction with DLG1. Involved in the assembly of protein complexes at sites of cell-cell contact (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR216901