

Product datasheet for MR226968

PPP1r12b (NM_001081307) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPP1r12b (NM_001081307) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PPP1r12b
Synonyms:	1810037O03Rik; 9530009M10Rik; A1132431; Mypt2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR226968 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGAGCTGGAGCACCTGGGAGGGAAGCGAGCAGAGTCGGCGCGAGCGCGGGGCTGAGCAGCTGC
GGCGCTGGCGGGGCTCGCTGACAGAGCAGGAGCCCGGGAGCGACAGGGCGCAGGGCGCCAGCTGCAGAC
CAGACGCGGGAGCCCCAGGGTCCGCTTCGAAGACGGTGGCGTCTTTCTAGCTGCCTGCTCCAGCGGGAC
ACGGACGAGGTGAAAAAGCTTCTGGCAAGAGGTGCGGACATCAACACGGTCAACGTGGACGGCTTGACAG
CCCTGCACCAGGCTGTATTGATGAAAAATTTGGACATGGTGAAGTTTCTGGTGGAGAACAGAGCCAATGT
AAACCAGCAGGACAACGAGGGCTGGACACCCCTGCATGCAGCAGCTTCTGTGGTTATCTCAACATAGCA
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AAGGAAGGAGGAAGAAGCAGAGATGTTGCAGGATGCCCGCAGTGGCTCAACAGCGGAAGAATAGAAGAT
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GGCTTCTATTAGGCTGGCTATGAACTCAATGTTCAAGATCATGACGGCTGGACTCCTCTTCATGCAGC
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GAGGAAGAAAACAAGAGTCCAGCAGCTCCAGCTCAGAGGAGGAGGAAGGGGAAGATGAAGTTTCTGAAT
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AGCTATTTAGTATGCTAGTACCCCGGAGGCTCAGCAGCACAAGTGACATTGAAGAAAAGGAGAACAGAG
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 CAGGCTGACTCAACAGCAGAGAAAACAGCAGACAGTGTCTCCTCCAGCACCCACTGTGTGTGATCACCA
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 CTCTGTGGAAGCCCGGAGAAGAGGAGGTCTTATCTAACTCCTGTACGGGATGAGGAGGCAGAGTCATTA
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 ATGGCCAGCAGAAAACAAGAGAAGACCTCTGACCGTCTCGGTGCTGGAGGTGGAGAAGCGGGAGAGGC
 GAGCACTGGAACGGAAAATGTGCGAAAATGGAAGAAGAGATGAAGAACCTTACCAGCTAAAAACAGATTCA
 AACCTTGAAGCAGATGAACGAACAACCTGACGGCTGAGAACAGGGCCCTGACCCGAGTGGTGGCCAGACTC
 TCCAAGTCCATCGAGTCTCCGACACCCAGGAGCTC

ACGCGTACGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATTAAGTTTAA

Protein Sequence:

>MR226968 protein sequence
 Red=Cloning site Green=Tags(s)

MALEHLGGKRAESARARRAEQLRRWRGSLTEQEPAERQAGRQLQTRRGSPRVRFDGAVFLAACSSGD
 TDEVKLLARGADINTVNVNVDGLTALHQACIDENLDMVKFLVENRANVNQDNEGWTPLHAAASCGYLNIA
 EYFISHGASVGI VNSEGEVPSDLAEEPAMKDLLLEQVKKQGVLDLEQSRKEEQMLQDARQWLNSGRIED
 VRQARSGATALHVAAAGYSEVLRLLIQAGYELNVQDHDGWTPLHAAAHWGVKEACSI LAEALCDMDIRN
 KLGQTPFDVADEGLVEHLEMLQKKQDVL RSEKETRNK LIESDLNSKFQSGLFKNKEKMLYEEEIPKSQDT
 EEENKESSSSSSEEEGEDEVSESETEKEADKKPEATVNHSNSEIKSRIMEQIPAPAQNTFSASSARRLS
 SLFNKAIEPKDESPSSWRLGLRKTGSHNMLSEVANSREALRDRGSSIYRSSSSPRISALLDDKDKERENK
 SYFSMLVPRRLSSTSDIEEKENRESAVNLVRS GSHTRQLWRDEAKGSETPQTIAPSTYTYLKRTPYKS
 QADSTAEKTADSVSSSTPLCVITNRPAPSTANGVPAATVFSSAGTDPVSEAREKRRSYLTPVRDEEAESL
 RKARSRQARQTRRSTQGVTLTDLQEAETFSRSRAERQAQEQPGEKLEDPGGLEGSTKKQEPSAAPT KGA
 GEGRSLEEEPIYHRLRYPTQPKPTTPVSPSASRPSLYTGSHLLRTSRASGPDSSENSETSHATAAKEMD
 TSEKGEADLDDQSSNRLSVRERRRAKDRRRGTGINFWTNDDETDVSEEVKEALHERLSRLESGGTNPTS
 SDSYSDRASARARREAREARLASLTSRVEEDSNRDYKLYESAL TENQKLKTKLQEAQLELADIKAKLEK
 MAQQKQEKTSDRSSVLEVEKRERRALERKMS EEMKNLHQLKQIQTLKQMNELQQAENRALTRVVARL
 SKSIESSDTQEL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001081307

ORF Size: 2979 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).

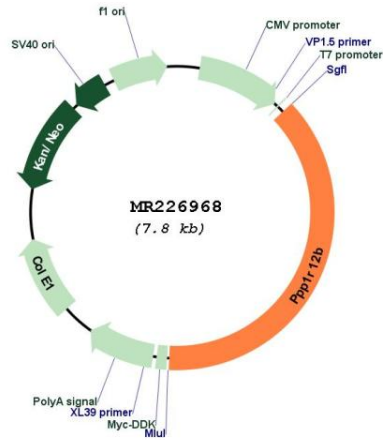
- Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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: [NM_001081307.1](#), [NP_001074776.1](#)

RefSeq Size: 3137 bp

RefSeq ORF: 2979 bp
 Locus ID: 329251
 Cytogenetics: 1 E4
 MW: 111 kDa
 Gene Summary: Regulates myosin phosphatase activity. Augments Ca(2+) sensitivity of the contractile apparatus (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR226968