

Product datasheet for **MG226968**

Ppp1r12b (NM_001081307) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ppp1r12b (NM_001081307) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ppp1r12b
Synonyms:	1810037O03Rik; 9530009M10Rik; AI132431; Mypt2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG226968 representing NM_001081307
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGAGCTGGAGCACCTGGGAGGGAAGCGAGCAGAGTCGGCGGAGCGCGGCCGGCTGAGCAGCTGC
 GCGCTGGCGGGGCTCGCTGACAGAGCAGGAGCCCGGAGCGACAGGGCGCAGGGCGCCAGCTGCAGAC
 CAGACGCGGGAGCCCCAGGGTCCGCTTCGAAGACGGTGCCTTTCTAGCTGCCTGCTCCAGCGGGGAC
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 CCCTGCACCAGGCCTGTATTGATGAAAAATTTGGACATGGTGAAGTTTCTGGTGGAGAACAGACCAATGT
 AAACCAGCAGGACAACGAGGGCTGGACACCCCTGCATGCAGCAGCTTCTGTGGTTATCTCAACATAGCA
 GAGTATTTTATTAGCCATGGAGCCAGTGTGGTATTGTGAACAGTGAAGGTGAAGTTCTTCTGACCTTG
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 ATGGCCCAGCAGAAAACAAGAGAAGACCTCTGACCGGTCTCGGTGCTGGAGGTGGAGAAGCGGGAGAGGC
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 AACCTTGAAGCAGATGAACGAACAACCTGCAGGCTGAGAACAGGGCCCTGACCCGAGTGGTGGCCAGACTC
 TCCAAGTCCATCGAGTCTCCGACACCCAGGAGCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG226968 representing NM_001081307
 Red=Cloning site Green=Tags(s)

MAELEHLGGKRAESARARRAEQLRRWRGSLTEQEP AERQAGRQLQTRRGSPRVRFEDGAVFLAACSSGD
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 EYFISHGASVGI VNSEGEVPSDLAEEPAMKDLLLEQVKKQGV DLEQSRKEEQMLQDARQWLNSGRIED
 VRQARSGATALHVAAAAGYSEVLRLLIQAGYELNVQDHDGWTPLHAAAHWGVKEAC SILAEALCDMDIRN
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 SLFNKAEEP KDES PSSLWRLGLRKTGSHNMLSEVANSREALRDRGSSIYRSSSSPRI SALLDDKDKERENK
 SYF SMLVPRRLSSTSDIEEKENRESAVNLV RSGSHTRQLWRDEAKGSETPQT IAPSTYTSTYLKRTPYKS
 QADSTA EKTADSVSSSTPLCVITNRPAPSTANGVPAATVFSSAGTDPSVEAREKRRSYLTPVRDEEAESL
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 GEGRSLEEPIYHRLRYPTQPKPTTPVSPSASRPSLYTGSHLLRTSRASGPDSENSETSHATAAKEMD
 TSEKGEADLDDQSSNRLSVRERRRAKDRRRGTGINFWTND EDETDVSEEVKEALHERLSRLESGGTNPTS
 SDSYSDRASARARREAREARLASLTSRVEEDSNRDYK KLYESAL TENQKLKTKLQEAQLELADIKAKLEK
 MAQQKQEKTSDRSSVLEVEKRERRALERKMSEMEEMKNLHQLKQIQTLKQMNEQLQAENRALTRVVARL
 SKSIESSDTQEL

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

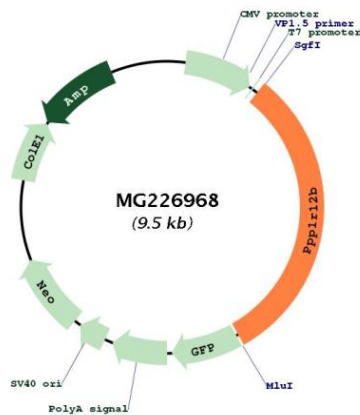


ACCN: NM_001081307

ORF Size: 2976 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
- 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 MG226968