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Product datasheet for MR211070

Ppp1r10 (NM_001163818) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ppp1r10 (NM_001163818) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ppp1r10
Synonyms:	2610025H06Rik; Cat53; D17Ertd808e; Fb19; Pnuts
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR211070 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGTTCAGGTCCCATAGACCCCAAAGAACTGCTCAAGGGCCTGGATAGCTTCCTTACCCGGGACGGAG
AAGTGAAGAGTGTGGATGGAATTTCCAAGATCTTCAGTCTAATGAAGGAGGCACGAAAGATGGTGAGTCG
GTGCACGTACTTGAACATAATCCTGCAGACCCGCGCTCCAGAAGTGCTCGTCAAGTTTATTGATGTCGGT
GGCTACAAGCTTCTGAACAACTGGCTAACATATTCAAAGACCACCAACAACATTCCTCTCCTACAGCAGA
TTCTGCTGACTCTGCAGCACCTCCCGCTCACTGTGGACCATCTCAAGCAGAACAACACAGCAAAACTAGT
GAAGCAGCTCAGCAAGTCAAGTGAGGATGAAGAGCTCCGGAAATTGGCATCAGTCCTTGTCAGTGACTGG
ATGGCTGTCATCCGCTCCCAGAGTAGCACCCAGCCTGCAGAGAAAGATAAGAAGAAAAGGAAGGAAGAGG
GGAAAAGTCGAACCACGCTTCCTGAGCGGCCTTTGACTGAAGTGAAGGCTGAGACCCGGGCTGAGGAAGC
CCCAGAGAAGAAGAAAGAGAAGCCCAAGTCACTTAGAACTACGGCACCCAGTCATGCCAAGTTCCGTTCT
ACTGGACTGGAGCTGGACACCCCATCTTTGGTGCCTGTGAAGAAGAACTCCAGCACTGTGGTTGTGTCAG
ACAAGTACAACCTGAAGCCCATCCCCCTGAAGCGGCAGAGTGCCACAGCTGCTCCAGGTGACGCTGCCCC
ACCTGCAGAGAAGAAATACAAGCCTCTCAACACAGCCCCCAATACCACCAAAGAAATCAAAGTGAAGATC
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CCAGAGGAGGTCGTTCCGGAGGAGGACCACCAAATGGCCGAGGGGGTCCTGGTGGAGGAGGCATGGTTGG
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CCTGGAGGGAACATGGGCAGTGGACATCGTTCTCATGATGGCCCTGGAGGGAACATGGGTGGAAGTGGTG
GACATCGTTCCCATGAAGGCCCTGGACACGGAGGACCCCATGGACACCGACCACATGATGTCCCTAGCCA
TCGAGGCCACGACCATCGAGGGCCACCACCTCATGAACACCGTGGTCATGATGGCCATGGGGGAGGCGGC
CACCGAGGGCATGATGGAGGCCACAGTCATGGAGGAGACATGTCAAACCGCCCTGTCTGCCGACACTTCA
TGATGAAGGGCAACTGCCGCTATGAGAACAACTGTGCCTTCTACCACCCAGGGGTCAATGGGCCCCCACT
GCCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

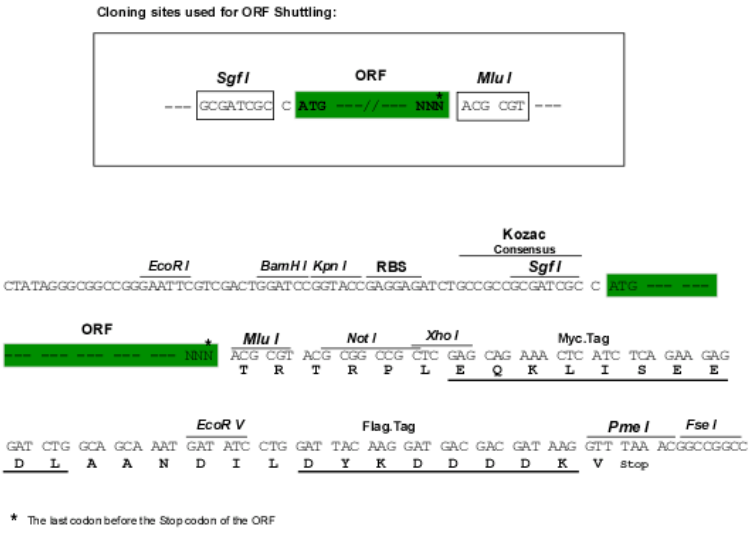
>MR211070 protein sequence
Red=Cloning site Green=Tags(s)

MGSGPIDPKELLKGLDSFLTRDGEVKSVDGISKIFSLMKEARKMVSRCTYLNIILQTRAPEVLVKFIDVG
GYKLLNNWLTYSKTTNNIPLLQQILLTLQHLPLTVDHLKQNNTAKLVKQLSKSSEDEELRKLASVLVSDW
MAVIRSQSSTQPAEKDKKKRKEEGKSRTTLPERPLTEVKAETRAEEAPEKKKEKPKSLRTTAPSHAKFRS
TGLELDTPSLVPVKKNSSTVVVSDKYNLKPIPLKRQSATAAPGDAAPPAEKKYKPLNTAPNTTKEIKVKI
IPPQPMEGLGFLDALNSAPVPGIKIKKKKKVLSPTAAKPSPFEGKTSTEQSTAKPSSPEPAPPAEPMDTD
RPGTPVPPVEVPELMDAASSEPGALDAKPVDSPGDPNQLTRKGRKRKTVTWPEEGKLREYFYFELDETER
VNVNKIKDFGEAAKREILSDRHAFETARRLSHDNMEEKVPWVCPRPLVLPSPLVIPGSNSQERYIQAERE
KGILQELFLNKESPHEPDPEPYEPIPPKLIPLDEECAMDETPYVETLEPGGSGGSPDGAGGSKLPPVLAN
LMGSMGAGKSPQGPGGGGINVQEILTSIMGSPNSHPSEELLKQPDYSDKLKQMLVPHGLLGPGPVANGFP
PGGPGGPKGMQHFPPGPGGPMPGPHGGPGGPVGPRLLGPPPPSRGGDPFWDGPGDPMRGGPMRGGPGPAP
GPYHRGRGGRGGNEPPPPPPFRGARGGRSGGGPPNGRGGPGGGGMVGGGGHRPHEGPGGSMGSGHRSHDG
PGGNMGSGHRSHDGPGGNMGGSGGHRSHEGPGHGGPHGHRPHDVPSHRGHDHRGPPPHEHRGHDGHGGGG
HRGHDGGHSHGGDMSNRPVCRHFMMKGNCRYENNCAFYHPGVNGPPLP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

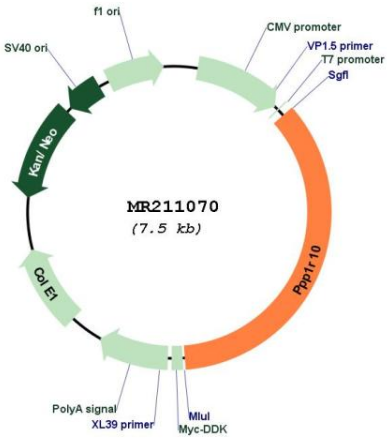
Cloning Scheme:



ACCN: NM_001163818

ORF Size:	2667 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_001163818.1, NP_001157290.1
RefSeq Size:	4239 bp
RefSeq ORF:	2667 bp
Locus ID:	52040
UniProt ID:	Q80W00
Cytogenetics:	17 18.77 cM
MW:	94.4 kDa
Gene Summary:	Scaffold protein which mediates the formation of the PTW/PP1 phosphatase complex by providing a binding platform to each component of the complex. The PTW/PP1 phosphatase complex plays a role in the control of chromatin structure and cell cycle progression during the transition from mitosis into interphase. Mediates interaction of WDR82 and PPP1CA. Inhibitor of PPP1CA and PPP1CC phosphatase activities. Has inhibitory activity on PPP1CA only when phosphorylated. Binds to mRNA, single-stranded DNA (ssDNA), poly(A) and poly(G) homopolymers.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR211070