

Product datasheet for MR222635

PPP1R12a (NM_027892) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPP1R12a (NM_027892) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PPP1R12a
Synonyms:	1200015F06Rik; 5730577I22Rik; AA792106; AV099298; D10ErtD625e; Mypt1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR222635 representing NM_027892 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCCGATCGCC

ATGAAGATGGCGGACGCGAAGCAGAAGCGGAACGAGCAGCTGAAGCGCTGGATCGGCTCCGAGACGGACC
TCGAGCCGCCGTGGTGAAGCGCCAGAAGACCAAGGTGAAGTTCGACGATGGCGCCGTCTTCTCGCCGC
CTGCTCCAGCGGCGACACGGACGAGGTCTCAAGCTGCTGCACCGCGGCGCCGACATCAATTACGCCAAT
GTGGACGGACTCACCGCCCTGCACCAGGCTTGCATTGATGACAATGTTGATATGGTGAAGTTTCTGGTAG
AAAATGGAGCAAATATCAATCAACCTGACAATGAAGGCTGGATACCACTCCATGCAGCTGCTTCTGTGG
ATATCTCGATATTGCAGAGTTTTGATTGGTCAAGGAGCAGATGTAGGAGCTGTCAACAGTGAAGGAGAC
ACACCTTTAGATATTGCAGAGGAGGAGGCGATGGAAGAGCTACTTCAAAATGAGGTTAATCGGCAAGGTG
TTGATATAGAAGCGGCTCGGAAAGAGGAGGAGCGGTAATGCTAAGAGACGCGAGGCAAGTAAACAG
CGGCCACATCAGTGACGTCCGGCATGCAAAGTCCGGGGGACAGCACTCCACGTGGCGGCCCAAAAGGC
TATACAGAAGTGTAAAACCTTTAATACAGGCAGGCTATGATGTTAATATTAAGATTATGATGGCTGGA
CACCTCTTCATGCTGCAGCTCATTGGGGTAAAGAAGAAGCATGTCGGATTTAGTGGACAATCTGTGTGA
TATGGAGACGGTCAACAAAGTGGCCAAACAGCCTTTGATGTAGCAGATGAAGACATTTGGGATATCTA
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CCACAGCAAATATGGAACAATCAACCACAGAAGGCTTTTAAAAACAAGGAAACGTTGATTATTGAGCC
AGAGAAAAATGCATCTCGCATCGAGTCTCTGGAGCATGAGAAGGCTGATGAGGAGGAAGAAGGCAAGAAG
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CAAAGCCCATGGCTTCTGTAAGCAATGCTCATACTTCCAGCACGAGGACGCCCTGCAGCTGTTACAGC
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GATCGGTCGGCTCCAGTCCGAGACTCTCGTCTCTTTGGATAATAAAGAAAAGGAGAAAGATAACAAA



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GGAACGAGACTTGCGTATGTCACCCCTACAATCCCGAGACGACTAGCCAGTACATCTGACATTGAAGAGA
 AGGAGAACAGAGAGTCTTCAAGTTTGCGAACAAGTAGTTCTTACACAAGAAGAAAATGGGAAGATGATCT
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 ATGAGCAAGAGCGGCAATCGGACACTGAGGACGGCTCCAGCAAGAGAGAGACGCAGACGGATTCTGTTTC
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 TC

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR222635 representing NM_027892
 Red=Cloning site Green=Tags(s)

MKMADAKQKRNEQLKRWIGSETDLEPPVVKRQTKVKFDDGAVFLAACSSGDTDEVLLKLLHRGADINYAN
 VDGLTALHQACIDDNVDMVKFLVENGANINQPDNEGWIPLHAAASCGYLDIAEFLIGQGAHVGVNSEG
 TPLDIAEEEAAMEELLQNEVNRQGV DIEAARKEEERVMLRDARQWLN SGHISDVRHAKSGGTALHVA
 AAKGYEVLKLLIQAGYDVNIKDYDGWTPHAAAHWGKEEACRILVDNLCDMETVNKVGQTA
 FQVADVEDILGYLEELQKKQTLHSEKRDKKSPLIESTANMENNQPQKAFKNKETLIEPEKNASRI
 ESLEHEKADEEEEGKDESSCSSEDEEDDSESEAETDKTKPMASVSNHTSSTQAAPAAVTAPT
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 AGVMRSASSPRLSSSLDNKEKEKDNKGTRLAYVTPTIPRRLASTSDIEEKENRESSLRTSSSY
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 STAAKTPPGSSSAGTQSSTSNRLWAEDSTEKEKDSAPTAVTIPVAPT VVNAAPSTTTLLTTT
 TTAGTVSEVRRRRSYLTPVRDEESESRKARSQARQSRSTQGVTLTDLQEA EKTIGRSRSTR
 TREQENEEKEKEKEKQDKEKQEEKKESEASREDEYKQKYSRTYDETYTRYRPVSTSSSS
 APSSSLSTLGLSTLYASSQLNRPNSLVGITSAYSRLAKENEREKEKEKEGEDKSPKPSIR
 ERRRPREKRRSTGVFWTQSDENEQERQSDTEDGSSKRETQTDVSRYDSSSTSSSDRYDSL
 LGRSASYLEDRKPYSSRLEKDDSTDFKKLYEQILAENEKLLKAQLHDTNME LTDLKLQLEKAT
 QRQERFADRSQLEMEKRVAGKSYLLGGTKSSRKKNI

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9040_h08.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_027892

ORF Size: 3012 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_027892.3](#)

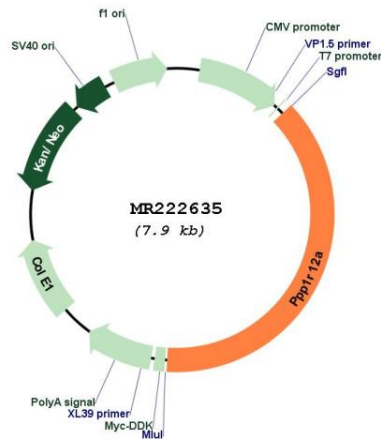
RefSeq Size: 3403 bp

RefSeq ORF: 3015 bp

Locus ID: 17931

UniProt ID: [Q9DBR7](#)
 Cytogenetics: 10 56.33 cM
 MW: 112.3 kDa
 Gene Summary: Key regulator of protein phosphatase 1C (PPP1C). Mediates binding to myosin. As part of the PPP1C complex, involved in dephosphorylation of PLK1. Capable of inhibiting HIF1AN-dependent suppression of HIF1A activity (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR222635