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Product datasheet for MR207239

Ppp2r2d (NM_026391) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ppp2r2d (NM_026391) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ppp2r2d
Synonyms:	1300017E19Rik; D7Ertd753e; MDS026
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR207239 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCAGGAGCTGGAGGCGGCGGCTGCCCGGCGGGCGGCAACGACTTCCAGTGGTGCTTCTCGCAGGTGA
AGGGCGCTGTCGACGAGGACGTGGCGGAAGCCGACATCATCTCCACCGTTGAGTTTAACTACTCTGGAGA
CCTTCTTGCAACAGGAGACAAAGGTGGCAGAGTTGTTATTTTCCAGCGGGAACAAGAGAATAAAGGCCGC
GCTCACTCTAGGGGAGAGTACAATGTTTACAGTACCTTTCAGAGTCATGAGCCAGAGTTTGACTATTTGA
AAAGTCTAGAAATTGAAGAAAAAATTAATAAAATCAGGTGGTTACCGCAACAGAATGCTGCTCATTTTCT
ACTCTCTACAAATGATAAAACTATTAAATTATGGAAAATAAGTGAACGGGATAAAAGAGCAGAAGGTTAT
AACTTGAAAGATGAAGATGGACGACTTCGAGACCCATTTAGAATTACGGCACTACGGGTTCCAATATTGA
AGCCCATGGACCTTATGGTAGAAGCAAGTCCACGACGAATTTTTGCAAATGCTCATACATATCACATAAA
TTCCATTTCAGTAAATAGTGATCATGAAACATATCTCTCTGCAGATGATCTGAGAATTAACCTATGGCAT
TTAGAAATCACAGATAGAAGCTTCAACATTGTGGACATCAAGCCAGCTAATATGGAGGAGCTGACAGAAG
TCATCACTGCCGCAGAGTTCCACCCACATCAGTGCAATGTATTTGTTTACAGCAGCAGCAAGGGCACCAT
CAGGCTGTGTGACATGCGTTCCTCTGCCCTATGTGACAGGCATGCCAAGTTTTTTGAAGAGCCAGAAGAT
CCCAGCAGTAGATCCTTCTTCTCAGAAATAATCTCATCTATATCTGATGTCAAGTTCAGCCACAGTGGTC
GATACATGATGACCAGAGACTATCTGTCGGTGAAGGTCTGGGACCTCAACATGGAGGGCAGGCCTGTGGA
GACCCACCAGGTACATGAGTACCTGCGAAGCAAGCTCTGCTCCTTGTATGAGAACGACTGCATCTTTGAC
AAGTTCGAGTGCTGCTGGAACGGTTCAGACAGTGCCATTATGACGGGGTCCTACAACAACTTCTTTAGAA
TGTTTGATAGAAACACTCGGAGGGATGTTACACTGGAAGCCTCAAGAGAGAACAGCAAACCCCGAGCCAG
CCTGAAGCCCCGGAAAGTATGTACAGGGGGTAAGAGAAAGAAAGACGAGATTAGCGTGGACAGTTTGGAC
TTCAATAAGAAGATCCTCCACACAGCCTGGCACCCCATGGAGAGCATTATTGCTGTAGCTGCCACCAATA
ACTTGTATATATTCCAGGACAAAATTAAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

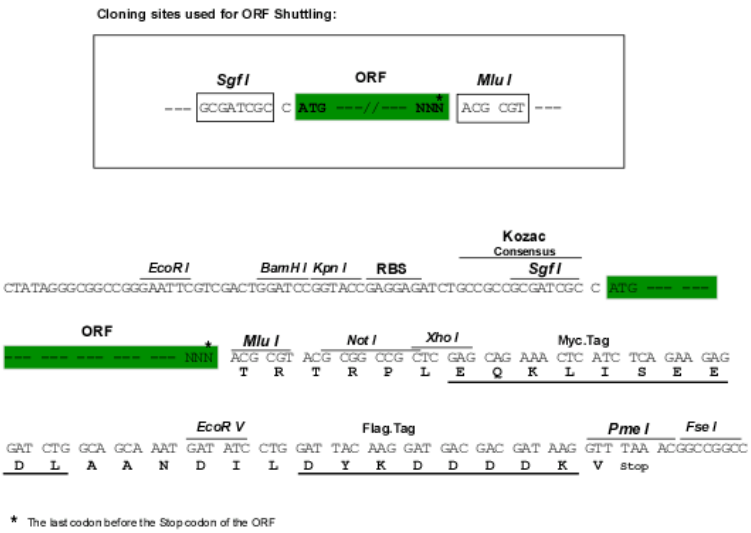
>MR207239 protein sequence
Red=Cloning site Green=Tags(s)

MAGAGGGGCPAGGNDFQWCFSQVKGAVDEDVAEADIISTVEFNYSGDLLATGDKGGRVVIFQREQENKGR
AHSRGEYNVYSTFQSHEPEFDYLKSLEIEEKINKIRWLPQQNAAHFLLSTNDKTIKLWKISERDKRAEGY
NLKDEDGRLRDPFRITALRVPILKPMDLMVEASPRRIFANAHTYHINSISVNSDHETYLSADDLRINLWH
LEITDRSFNIVDIKPANMEELTEVITAAEFHPHQCNVFVYSSSKGTIRLCDMRSSALCDRHAKFFEEPED
PSSRSFFSEIISSISDVKFSHSGRYMMTRDYLSVKVWDLNMEGRPVETHQVHEYLRSKLCSLYENDCIFD
KFECCWNGSDSAIMTGSYNNFFRMFDRNTRRDVTLEASRENSKPRASLKPRKVCTGGKRKKDEISVDSLD
FNKKILHTAWHPMESIIAVAATNNLYIFQDKIN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_026391

ORF Size: 1362 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_026391.2, NP_080667.1

RefSeq Size: 2079 bp

RefSeq ORF: 1362 bp

Locus ID: 52432

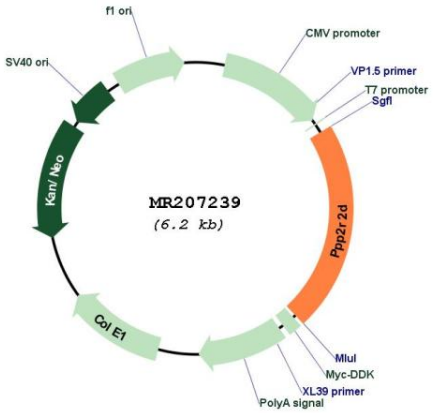
UniProt ID: Q925E7

Cytogenetics: 7 82.95 cM

MW: 52 kDa

Gene Summary: B regulatory subunit of protein phosphatase 2A (PP2A) that plays a key role in cell cycle by controlling mitosis entry and exit. The activity of PP2A complexes containing PPP2R2D (PR55-delta) fluctuate during the cell cycle: the activity is high in interphase and low in mitosis. During mitosis, activity of PP2A is inhibited via interaction with phosphorylated ENSA and ARPP19 inhibitors. Within the PP2A complexes, the B regulatory subunits modulate substrate selectivity and catalytic activity, and also may direct the localization of the catalytic enzyme to a particular subcellular compartment (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR207239