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Product datasheet for RC220738

PPP4R2 (NM_174907) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPP4R2 (NM_174907) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PPP4R2
Synonyms:	PP4R2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC220738 representing NM_174907
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGACGTCGAGAGGCTCCAGGAGGCGCTGAAAGATTTTGAGAAGAGGGGGAAAAAGGAAGTTTGTCCTG
TCCTGGATCAGTTTCTTTGTCATGTAGCCAAGACTGGAGAAACAATGATTCAGTGGTCCCAATTTAAAGG
CTATTTTATTTTCAAACTGGAGAAAGTGATGGATGATTTCAGAACTTCAGCTCCTGAGCCAAGAGGTCCT
CCCAACCCTAATGTCGAATATATTCCCTTTGATGAAATGAAGGAAAGAATACTGAAAATTGTCACTGGAT
TTAATGGTATCCCTTTTACTATTCAGCGACTATGTGAATTGTTAACAGATCCAAGGAGAAACTATACAGG
AACAGACAAATTTCTCAGAGGAGTAGAAAAGAATGTGATGGTTGTTAGCTGTGTTTATCCTTCTTCAGAG
AAAAACAATTCCAATAGTTTAAATCGAATGAATGGTGTTATGTTTCCTGGAAATTCACCAAGCTATACTG
AGAGGTCTAATATAAATGGGCCTGGGACACCCAGGCCACTTAATCGACCAAAGGTTTCTTTGTCAGCCCC
CATGACAACAAATGGGTTGCCTGAGAGCACAGACAGCAAAGAGGCAAATTTGCAGCAAAATGAGGAGAAA
AATCACAGTGACTCTTCGACCTCTGAATCAGAAGTTTCCTCAGTGAGCCCTTTGAAAAATAAACATCCAG
ATGAAGATGCTGTGGAAGCTGAGGGGCATGAGGTAAAAAGACTCAGGTTTGACAAAGAAGGTGAAGTCAG
AGAAACAGCCAGTCAAACGACTTCCAGCGAAATTTCTTCAGTTATGGTAGGAGAAACAGAAGCATCATCT
TCATCTCAGGATAAAGACAAAGATAGCCGTTGTACCCGGCAGCACTGTACAGAAGAGGATGAAGAAGAGG
ATGAAGAGGAAGAAGAAGAGTCTTTTATGACATCAAGAGAAATGATCCCAGAAAGAAAAAATCAAGAAAA
AGAATCTGATGATGCCTTAACTGTGAATGAAGAGACTTCTGAGGAAAATAATCAAATGGAGGAATCTGAT
GTGTCTCAAGCTGAGAAAGATTTGCTACATTCTGAAGGTAGTGAAAACGAAGGCCCTGTAAGTAGTAGTT
CTTCTGACTGCCGTGAAACAGAAGAATTAGTAGGATCCAATTCCAGTAAAACTGGAGAGATTCTTTCAGA
ATCATCCATGGAAAATGATGACGAAGCCACAGAAGTCACCGATGAACCAATGGAACAAGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC220738 representing NM_174907
Red=Cloning site Green=Tags(s)

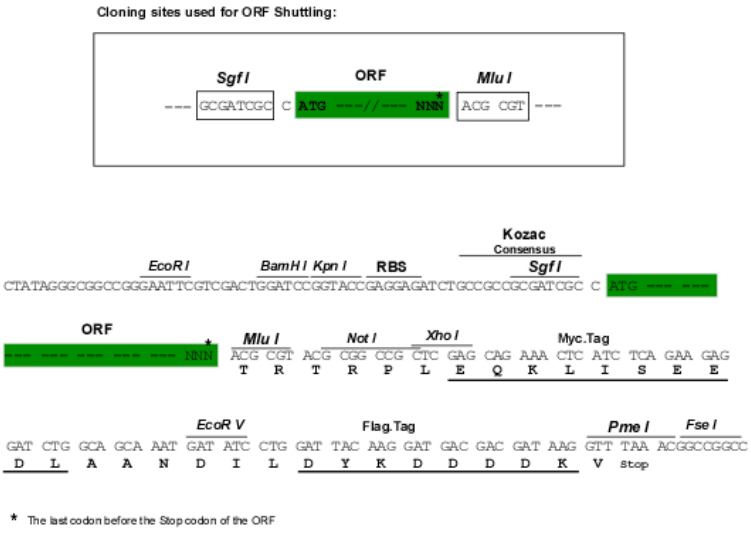
MDVERLQEALKDFEKRGKKEVCPVLDQFLCHVAKTGETMIQWSQFKGYFIFKLEKVMDDFRTSAPEPRGP
PNPNVEYIPFDEMKERILKIVTGFNGIPFTIQRLCELLTDPRRNYTGTDKFLRGVEKNVMVVSCVYPSSE
KNNSNSLNRMNGVMFPGNSPSYTERSNINGPGTPRPLNRPKVSLSAPMTTNGLPESTDSKEANLQQNEEK
NHSDSSTSESEVSSVSPLKNKHPDEDAVEAEGHEVKRLRFDKEGEVRETASQTTSSEISSVMVGETEASS
SSQDKDKDSRCTRQHCTEEDEEEDEEEEEESFMTSREMIPERKNQEKESDDALTVNEETSEENNQMEESD
VSQAEKDLLHSEGSENEGPVSSSSSDCRETEELVGSNSSKTGEILSESSMENDDEATEVTDEPMEQD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6563_c04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_174907

ORF Size: 1251 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_174907.4

RefSeq Size: 1497 bp

RefSeq ORF: 1254 bp

Locus ID: 151987

UniProt ID: Q9NY27

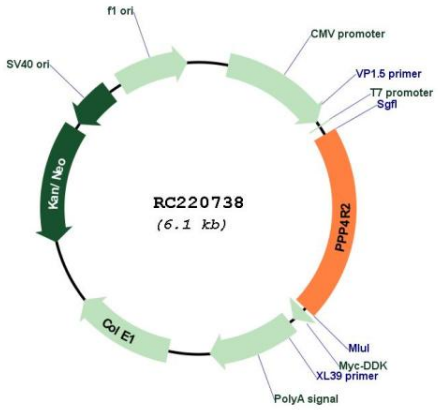
Cytogenetics: 3p13

Protein Families: Phosphatase

MW: 46.7 kDa

Gene Summary: The protein encoded by this gene is a regulatory subunit of the serine/threonine-protein phosphatase 4 complex. In addition to being required for efficient DNA double strand break repair, this complex plays a role in organization of microtubules at centrosomes and processing of spliceosomal snRNPs. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2015]

Product images:



Circular map for RC220738