

Product datasheet for MR222021

Prr5l (NM_001083810) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prr5l (NM_001083810) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Prr5l
Synonyms:	2600010E01Rik; 4833411O04Rik; Protor-2; Protor2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR222021 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCTCCTCCGCCGGCCTAGACCACGCTTTATGAGCTCCCCTGTGCTCAGCGAGCTGCCCGCTTCC
AGGCTGCCCGCAGGCTCTGCAGCTAAGTTCCAACCTCGCCTGGAACAGTGTGCAGACAGCTGTGATCAA
CGTTTTCAAAGGGGGCGGCTTGCAGAGCAATGAGCTGTATGCACTGAACGAAAGCATCAGGCGGCTGCTG
AAGAGTGAACCTGGATCATTACTACTGACTATTTCCAGAACCAGCTTCTGCAAAGGACTGTCCTTTG
TGGAGGAGAAGATCAAGCTGTGTGAAGGTGACAATCGGATTGAGGTTCTGGCTGAAGTCTGGACCACTT
CTTCACCGAGACTCTCCCTACCTGCAGGCAATATTTATCCGGTTCAGGGACAGGAGCTGACCATCCGC
CAGATCTCCCTGCTGGGCTTCCGGGACCTGGTCTTGTGAAGGTGAAGCTGGGTGACGTGCTGCTGTTGG
CACAGTCCAAGTTGCCTTCTTCTGTTATACAAATGCTGCTCATTCTGCAGAGTGTTCACGAGCCACAGG
CCCAAGTGAGGGCTACTTGCAGCTGGAGGAGCTGGTGAAGCAAGTGGTGTCTCCCTTTCTCAGCATCAGC
GGGACCGCAGCTGCTCAGGCCCCACGTAACCTACTGGCCAGGAGGATCCAGGGTCCGGCCCAAGGTGA
CTGTCTGAACATGCCTCTCTGATGACCACGGTTGGCCGGCCACTGAACGAGATGGTCTTGACCCCTCT
AACAGAACAGGAAGGGGAGGCATACCTGGAGAAGTGTGGCAGTGTCCGGCGGCACACAGTGGCCAACGCC
CACTCAGACATCCAGCTGCTGGCGATGGCCACCATGATGCACTCAGGGTTGGGGAGGAGGCTGGCGGCG
AGGACAAACACCTGCTCTTGCCACCCAGCTTCCCCCACCACACCGCCAGTGTCCAGTGAACCCAGCAT
CCTCGACAGCCCCGATGAACTGGAAGTGAAGACGTGGCAAGTGGCAGCCAGGAGGACTCAGAGCTGAAC
TGTGCTCCCTCAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR222021 protein sequence
 Red=Cloning site Green=Tags(s)

MGSFRRPRPRFMSSPVLSELPRFQARQALQLSSNSAWNSVQTAVINVFKGGGLQSNELYALNESIRLL
 KSELGSFITDYFQNQLLAKGLSFVEEKIKLCEGDNRIEVLAEVWDHFFETLPTLQAIIFYPVQGQELTIR
 QISLLGFRDLVLLKVKLGDVLLLAQSKLPSSVIQMLLILQSVHEPTGPSEGYLQLEELVKQVSPFLSIS
 GDRSCSGPTYSLARRHSRVRPKVTVLNYASLMTTVGRPLNEMVL TPLTEQEGEAYLEKCGSVRRHTVANA
 HSDIQLLAMATMMHSGLGEEAGGEDKHLILLPPSPPPHRQCSSEPSILDSPDELELEDVASGSQEDSELN
 CASLS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001083810

ORF Size: 1068 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 Size: 4296 bp

RefSeq ORF: 1113 bp

Locus ID: 72446

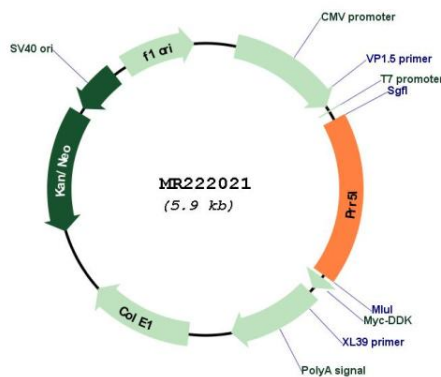
UniProt ID: [A2AVI5](#)

Cytogenetics: 2 E2

MW: 39.3 kDa

Gene Summary: Associates with the mTORC2 complex that regulates cellular processes including survival and organization of the cytoskeleton (By similarity). Regulates the activity of the mTORC2 complex in a substrate-specific manner preventing for instance the specific phosphorylation of PKCs and thereby controlling cell migration (PubMed:22609986). Plays a role in the stimulation of ZFP36-mediated mRNA decay of several ZFP36-associated mRNAs, such as TNF-alpha and GM-CSF, in response to stress. Required for ZFP36 localization to cytoplasmic stress granule (SG) and P-body (PB) in response to stress.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR222021