

Product datasheet for **RC223241**

FLJ14213 (PRR5L) (NM_024841) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FLJ14213 (PRR5L) (NM_024841) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FLJ14213
Synonyms:	PROTOR2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC223241 representing NM_024841 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACCCGCGGCTTCGCTCCATTCTGCCGTCGAGTTCACAAGATGGGCTCCTCCGAGGCCTAGAC
CGCGCTTCATGAGCTCCCCGCTGCTCAGCGACCTCCCGATTCCAAGCAGCTCGGCAGGCTCTGCAGCT
GAGCTCCAGCTCAGCCTGGAACAGCGTTCAGACTGCTGTGATCAACGTTTTCAAAGGGGGTGGCTTGCAA
AGCAACGAGCTCTATGCCCTGAACGAAACATCAGGCGGCTGTTGAAGAGTGAAGTGGATCATTATTA
CAGACTATTTTCAGAACCAGCTTCTTGAAAAGGACTGTTCTTTGTGGAGGAGAAGATCAAGCTGTGTGA
AGGTGAAAATCGATTGAGGTTCTGGCTGAAGTCTGGGACCACTCTTCACTGAGACTCTCCCTACCCTG
CAGGCAATATTTTATCCAGTTCAGGGCCAGGAGCTGACTATCCGCCAGATCTCCCTGCTGGGCTTCCGAG
ACCTAGTCTTGCTGAAGGTGAAGCTGGGTGACCTGCTGCTGCTGGCCAGTCCAAGCTGCCTCGTCCAT
TGTCCAGATGTTGCTCATCCTGCAGAGTGTTCACGAGCCACAGGCCAAGTGAAGTATTTGCAACTG
GAGGAGCTGGTGAAGCAAGTGGTTCTCCTTTCCTCGGCATCAGCGGGGACCGTAGCTTCTCAGGCCCA
CGTACACGCTGGCCAGGCGGCACTCCAGGGTCCGGCCCAAGGTGACTGTCTGAACTATGCCTCCCGAT
AACCGCAGTCAGCCGGCACTGAATGAGATGGTCTTGACCCCACTGACAGAGCAGGAGGGGAAGCCTAC
CTGGAGAAGTGTGCAGCGTGCGGCGGCACACGGTGGCCAATGCCCACTCGGACATCCAGCTGCTGGCCA
TGGCCACCATGATGCACTCGGGCCTGGGGGAGGAGGCCAGCAGTGAGAACAAAGTGCCTGCTCCTGCCACC
CAGCTTCCCCCGCCCCACCGGCAGTGCTCCAGTGAGCCCAACATCACTGACAACCTGACGGACTGGAG
GAGGGGGCCAGGGGAGCCAGGAGGGCTCGGAGCTGAAGTGTGCTTCCCTCAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC223241 representing NM_024841
 Red=Cloning site Green=Tags(s)

MTRGFAPILPVEFHKMGSFRRPRPRFMSSPVLSDLPRFQAAARQALQLSSSSAWNSVQTAVINVFKGGGLQ
 SNELYALNENIRRLKSELGSFIDYFQNQLLAKGLFFVEEKIKLCEGENRIEVLAEVWDHFFTETLPTL
 QAIFYPVQGGELTIRQISLLGFRDLVLLKVKLGDLALLAQSKLPSSIVQMLLILQSVHEPTGPSESYLQL
 EELVKQVVPFLGISGDRSFSGPTYTLARRHSRVRPKVTVLNYASPITAVSRPLNEMVLTPLTEQEGEAY
 LEKCGSVRRHTVANAHSDIQLLAMATMMHSGLGEEASSENKCLLLPPSFPPPHRQCSSEPNITDNPDLGLE
 EGARGSQEGSELNCASLS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8045_h09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_024841

ORF Size: 1104 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_024841.4](#), [NP_079117.3](#)

RefSeq Size: 3946 bp

RefSeq ORF: 1107 bp

Locus ID: 79899

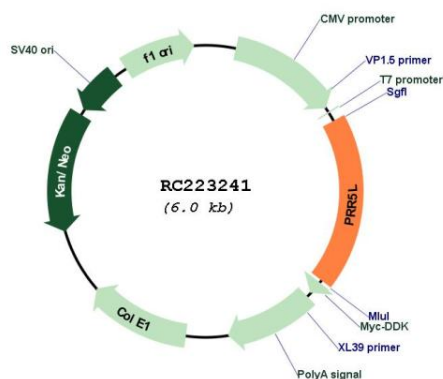
UniProt ID: [Q6MZQ0](#)

Cytogenetics: 11p13-p12

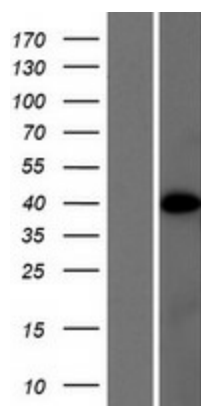
MW: 40.7 kDa

Gene Summary: Associates with the mTORC2 complex that regulates cellular processes including survival and organization of the cytoskeleton (PubMed:17461779). 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 (PubMed:21964062). Required for ZFP36 localization to cytoplasmic stress granule (SG) and P-body (PB) in response to stress (PubMed:21964062).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC223241



Western blot validation of overexpression lysate (Cat# [LY410986]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223241 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).