

Product datasheet for **RG228296**

FLJ14213 (PRR5L) (NM_001160167) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FLJ14213 (PRR5L) (NM_001160167) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FLJ14213
Synonyms:	PROTOR2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG228296 representing NM_001160167 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACCCGCGGCTTCGCTCCATTCTGCCGTCGAGTTCACAAGATGGGCTCCTCCGCAGGCCTAGAC
CGCGCTTCATGAGCTCCCCGTGCTCAGCGACCTCCCGATTCCAAGCAGCTCGGCAGGCTCTGCAGT
GAGCTCCAGCTCAGCCTGGAACAGCGTTCAGACTGCTGTGATCAACGTTTTCAAAGGGGTGGCTTGCAA
AGCAACGAGCTCTATGCCCTGAACGAAAACATCAGGCGGCTGTTGAAGAGTGAACCTGGATCATTACCTA
CAGACTATTTTCAGAACCAGCTTCTTGAAAAGGACTGTTCTTTGTGGAGGAGAAGATCAAGCTGTGTGA
AGGTGAAAATCGCATTGAGGTTCTGGCTGAAGTCTGGGACCATTCTTCACTGAGACTCTCCCTACCCTG
CAGGCAATATTTTATCCAGTTCAGGGCCAGGAGCTGACTATCCGCCAGATCTCCCTGCTGGGCTTCCGAG
ACCTAGTCTTGCTGAAGGTGAAGCTGGGTGACCTGCTGCTGGCCAGTCCAAGCTGCCTCGTCCAT
TGTCCAGATGTTGCTCATCTGCAGAGTGTTCACGAGCCACAGGCCAAGTGAAGTATTTGCAACTG
GAGGAGCTGGTGAAGCAAGTGGTTTCTCCTTTCCTCGGCATCAGCGGGGACCGTAGCTTCTCAGGCCCA
CGTACACGCTGGCCAGGCGGCACTCCAGGTCGGCCCAAGGTGACTGTCTGAACTATGCCTCCCCGAT
AACCGCAGTCAGCCGGCACTGAATGAGATGGTCTTGACCCACTGACAGAGCAGGAGGGGAAGCCTAC
CTGGAGAAGTGTGCAGCGTGCAGCGGCACACGGTGGCCAATGCCACTCGGACATCCAGCTGCTGGCCA
TGGCCACCATGATGCACTCGGGCCTGGGGGAGGAGGCCAGCAGTGAACAAGTGCCTGCTGCCACC
CAGCTTCCCCCGCCCCACCGGAGTGTCCAGTGAAGCCAAACATCACTGACAACCTGACGGACTGGAG
GAGGGGCCAGGGGACAGCAGGAGGGCTCGGAGCTGAACTGTGCTTCCCTCAGC

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG228296 representing NM_001160167
 Red=Cloning site Green=Tags(s)

MTRGFAPILPVEFHKMGSFRRPRPRFMSSPVLSDLPRFQAAARQALQLSSSSAWNSVQTAVINVFKGGGLQ
 SNELYALNENIRRLKSELGSFIDYFQNLAKGLFFVEEKIKLCEGENRIEVLAEVWDHFFTTETLPTL
 QAIFYPVQGOELTIRQISLLGFRDLVLLKVKLGDLLLLAQSKLPPSSIVQMLLILQSVHEPTGPSESYLQL
 EELVKQVYSPFLGISGDRSFSGPTYTLARRHSRVRPKVTVLNYASPITAVSRPLNEMVLTPLTEQGEAY
 LEKCGSVRRHTVANAHSDIQLLAMATMMHSGLGEEASSENKCLLLPPSFPHPHRQCSSEPNITDNPDGLE
 EGARGSQEGSELNCASLS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001160167

ORF Size: 1104 bp

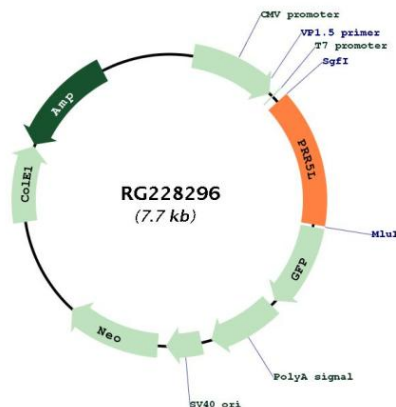
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<ol style="list-style-type: none"> 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:	<u>NM_001160167.2</u>
RefSeq Size:	3979 bp
RefSeq ORF:	1107 bp
Locus ID:	79899
UniProt ID:	<u>Q6MZQ0</u>
Cytogenetics:	11p13-p12
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 RG228296