

Product datasheet for **RG214201**

Protor 1 (PRR5) (NM_181333) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Protor 1 (PRR5) (NM_181333) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Protor 1
Synonyms:	FLJ20185k; PP610; PROTOR-1; PROTOR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG214201 representing NM_181333 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGAGGACTCTCCGAGGTTGAAGTTCATGAGTTCGCCAGCCTCAGTGACCTGGGCAAGAGAGAGCCGG
 CCGCCGCCGCGGACGAGCGGGGACGCAGCAGCGCCGGGCTGCGCCAACGCCACCTGGAACAGCATCCA
 CAACGGGGTGATCGCCGTCTTCCAGCGCAAGGGGCTGCCGACCAGGAGCTCTTCAGCCTCAACGAGGGC
 GTCCGGCAGCTGTTGAAGACAGAGCTGGGGTCTTCTTACGGAGTACCTGCAGAACCAGCTGCTGACAA
 AAGGCATGGTGATCCTTCGGGACAAGATTCGCTTCTATGAGGGACAGAAGCTGCTGGACTCACTGGCAGA
 GACCTGGGACTTCTTCTTCAGTGACGTGCTGCCATGCTGCAGGCCATCTTCTACCCGGTGCAGGGCAAG
 GAGCCATCGGTGCGCCAGCTGGCCCTGTGCACTTCCGGAATGCCATCACCCCTCAGTGTGAAGCTAGAGG
 ATGCGCTGGCCCGGGCCCATGCCGTGTGCCCTGCCATCGTGAGATGCTGCTGGTGTGTCAGGGGGT
 ACATGAGTCCAGGGGCGTGACTGAGGACTACCTGCGCCTGGAGACGCTGGTCCAGAAGGTGGTGTGCCA
 TACCTGGGCACCTACGGCCTCCACTCCAGCGAGGGGCCCTTACCCATTCTGCTCCTGGAAGAGCGCC
 TCCTCCGCCGCTCCCGCTCGGGGACGTGCTGGCCAAGAACCCTGTGGTGCCTCCAAGAGCTACAACAC
 GCCTCTGTGAACCCGTGCAGGAGCACGAGGCGGAGGGCGGGCGGGCGGGTACCAGCATCCGCAGG
 CACTCTGTGTCGGAGATGACGTCTGCCCCGAGCCTCAGGGCTTCTCCGACCCGCCCGGCCAGGGCCCCA
 CCGGGACCTTCAGGTCTCCCCGGCGCCCCACTCAGGGCCCTGCCCCAGCAGACTGTACCCACGACCCA
 GCCCCCTGAGCAGGGCTTGATCCACCCGACGTCCCTGCCCGCTCCAGCCCGGAGAACCTGGTGGAC
 CAGATCTGGAGTCCGTGGACTCGGATTCTGAAGGATTTTCATTGACTTTGGCCGGGGCCGGGCTCTG
 GCATGTCCGACTTGGAGGGCTCTGGGGCCGGCAGAGTGTCTGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG214201 representing NM_181333
 Red=Cloning site Green=Tags(s)

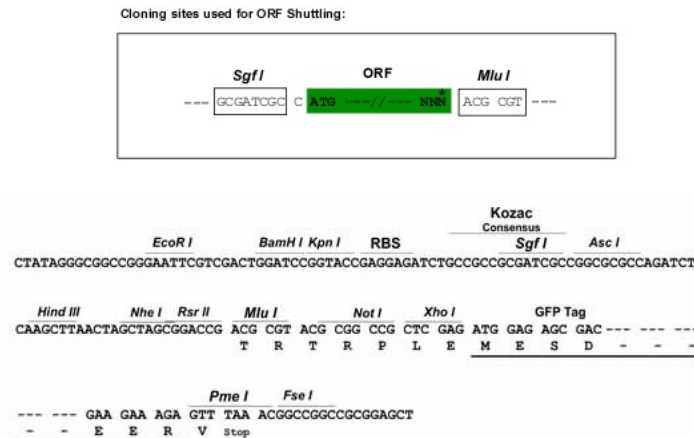
MRTLRRLLKFMSSPSLSDLGKREPAAAADERTGQRRACANATWNSIHNGVIAVFQRKGLPDQELFSLNEG
 VRQLLKTGSGFFTEYLQNQLLTGKMVILRDKIRFYEGQKLLDSLAEWDFFSVLPMLQAIIFYPVQK
 EPSVRQLALLHFRNAITLSVKLEDAARAHARVPPAIVQMLLVLGHVHESRGVTEDYLRLETLVQKVVSP
 YLGTGYLHSSSEGPFTHSCILEKRLLRRSRSGDVLAKNPVVRKSYNTPLLNPVQEHEAEGAAAGGTSIRR
 HSVSEMTSCPEPQGFSDPPGQGTGTFRSSPAPHSGPCPSRLYPTTQPPEQGLDPTRSSLPSSPENLVD
 QILESVDSDSEGIFIDFGRGRSGMSDLEGGSGGRQSVV

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_181333

ORF Size: 1164 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_181333.4](#)

RefSeq Size: 1873 bp

RefSeq ORF: 1167 bp

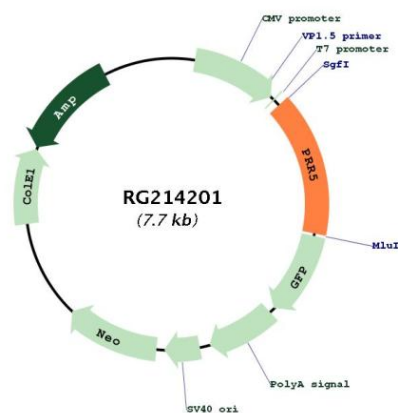
Locus ID: 55615

UniProt ID: [P85299](#)

Cytogenetics: 22q13.31

Gene Summary: This gene encodes a protein with a proline-rich domain. This gene is located in a region of chromosome 22 reported to contain a tumor suppressor gene that may be involved in breast and colorectal tumorigenesis. The protein is a component of the mammalian target of rapamycin complex 2 (mTORC2), and it regulates platelet-derived growth factor (PDGF) receptor beta expression and PDGF signaling to Akt and S6K1. Alternative splicing and the use of alternative promoters results in transcripts encoding different isoforms. Read-through transcripts from this gene into the downstream Rho GTPase activating protein 8 (ARHGAP8) gene also exist, which led to the original description of PRR5 and ARHGAP8 being a single gene. [provided by RefSeq, Nov 2010]

Product images:



Circular map for RG214201