

Product datasheet for **RG214138**

Protor 1 (PRR5) (NM_001017529) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
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: >RG214138 representing NM_001017529
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTGATCCTTCGGGACAAGATTCGCTTCTATGAGGGACAGAAGCTGCTGGACTCACTGGCAGAGACCT
GGGACTTCTTCTTCAGTGACGTGCTGCCCATGCTGCAGGCCATCTTCTACCCGGTGCAGGGCAAGGAGCC
ATCGGTGCGCCAGCTGGCCCTGCTGCACCTCCGGAATGCCATCACCTCAGTGTGAAGCTAGAGGATGCG
CTGGCCCGGGCCCATGCCGTGTGCCCCCTGCCATCGTCAGATGCTGCTGGTGTGCAGGGGGTACATG
AGTCCAGGGGCGTGACTGAGGACTACCTGCGCCTGGAGACGCTGGTCCAGAAGGTGGTGTGCCATACCT
GGGCACCTACGGCCTCCACTCCAGCGAGGGGCCCTTACCCATTCTGCATCCTGGAAGAGCGCCTCCTC
CGCCGCTCCCGCTCGGGGACGTGCTGGCCAAGAACCCTGTGGTGCCTCCAAGAGCTACAACACGCCTC
TGCTGAACCCCGTGCAGGAGCACGAGGCGGAGGGCGCGCGCGCGGTACCAGCATCCGACGGCACTC
TGTGTGCGAGATGACGTCTGCCCCGAGCCTCAGGGCTTCTCCGACCCGCGCCAGGGCCCCACCGGG
ACCTTCAGGTCTCCCCGGCGCCCACTCAGGGCCCTGCCCCAGCAGACTGTACCCACGACCCAGCCCC
CTGAGCAGGGCTTGGATCCACCCGAGCTCCCTGCCCGCTCCAGCCCGGAGAACCTGGTGGACCATG
CCTGGAGTCCGTGGACTCGGATTCTGAAGGGATTTTCATTGACTTTGGCCGGGGCGGGGCTCTGGCATG
TCCGACTTGGAGGGCTCTGGGGCCGCGCAGAGTGTCTGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAA



Protein Sequence:

>RG214138 representing NM_001017529

Red=Cloning site Green=Tags(s)

MVILRDKIRFYEGQKLLDSLAETWDFFFSDVLPMLQAIFYPVQKGKPSVRQLALLHFRNAITLSVKLEDA
LARA HARVPPAIVQMLLVQGVHESRGVTEDYLRLETLVQKVVSPLYGLHSSEGPFTHSCILEKRLL
RRSRSGDVLAKNPVVRSKSYNTPLLNPVQEHEAEGAAAGGTSIRRHVSSEMTSCPEPQGFSDPPGQGPTG
TFRSSPAPHSGPCPSRLYPTTQPPEQGLDPTRSSLPSSPENLVQDILESVDSDSEGIFIDFGRGRGSGM
SDLEGSGGRQSVV

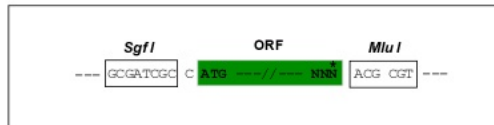
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



CTATAGGGCGCGCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGCGCAGATCT

EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI

CAAGCTTAAGCTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC ---

HindIII NheI RsrII MluI NotI XhoI GFP Tag

T R T R P L E M E S D - - -

--- GAA GAA AGA GTT TAA ACGGCCGCGCGGAGCT

- - E E R V Stop

ACCN:

NM_001017529

ORF Size:

879 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:

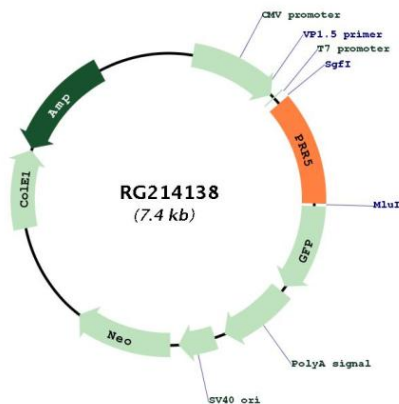
This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001017529.2 , NP_001017529.1
RefSeq Size:	1560 bp
RefSeq ORF:	882 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 RG214138