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# Product datasheet for RC214138

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

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | Protor 1 (PRR5) (NM_001017529) Human Tagged ORF Clone |
| **Tag:** | Myc-DDK |
| **Symbol:** | Protor 1 |
| **Synonyms:** | FLJ20185k; PP610; PROTOR-1; PROTOR1 |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |

**ORF Nucleotide Sequence:**

>RC214138 representing NM_001017529
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTGATCCTTCGGGACAAGATTCGCTTCTATGAGGGACAGAAGCTGCTGGACTCACTGGCAGAGACCT
GGGACTTCTTCTTCAGTGACGTGCTGCCCATGCTGCAGGCCATCTTCTACCCGGTGCAGGGCAAGGAGCC
ATCGGTGCGCCAGCTGGCCCTGCTGCACTTCCGGAATGCCATCACCCTCAGTGTGAAGCTAGAGGATGCG
CTGGCCCGGGCCCATGCCCGTGTGCCCCCTGCCATCGTGCAGATGCTGCTGGTGCTGCAGGGGGTACATG
AGTCCAGGGGCGTGACTGAGGACTACCTGCGCCTGGAGACGCTGGTCCAGAAGGTGGTGTCGCCATACCT
GGGCACCTACGGCCTCCACTCCAGCGAGGGGCCCTTCACCCATTCCTGCATCCTGGAAAAGCGCCTCCTC
CGCCGCTCCCGCTCGGGGGACGTGCTGGCCAAGAACCCTGTGGTGCGCTCCAAGAGCTACAACACGCCTC
TGCTGAACCCCGTGCAGGAGCACGAGGCGGAGGGCGCGGCGGCCGGCGGTACCAGCATCCGCAGGCACTC
TGTGTCGGAGATGACGTCCTGCCCCGAGCCTCAGGGCTTCTCCGACCCGCCCGGCCAGGGCCCCACCGGG
ACCTTCAGGTCCTCCCCGGCGCCCCACTCAGGGCCCTGCCCCAGCAGACTGTACCCCACGACCCAGCCCC
CTGAGCAGGGCTTGGATCCCACCCGCAGCTCCCTGCCCCGCTCCAGCCCGGAGAACCTGGTGGACCAGAT
CCTGGAGTCCGTGGACTCGGATTCTGAAGGGATTTTCATTGACTTTGGCCGGGGCCGGGGCTCTGGCATG
TCCGACTTGGAGGGCTCTGGGGGCCGGCAGAGTGTCGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA


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**Protein Sequence:**

>RC214138 representing NM_001017529
Red=Cloning site Green=Tags(s)

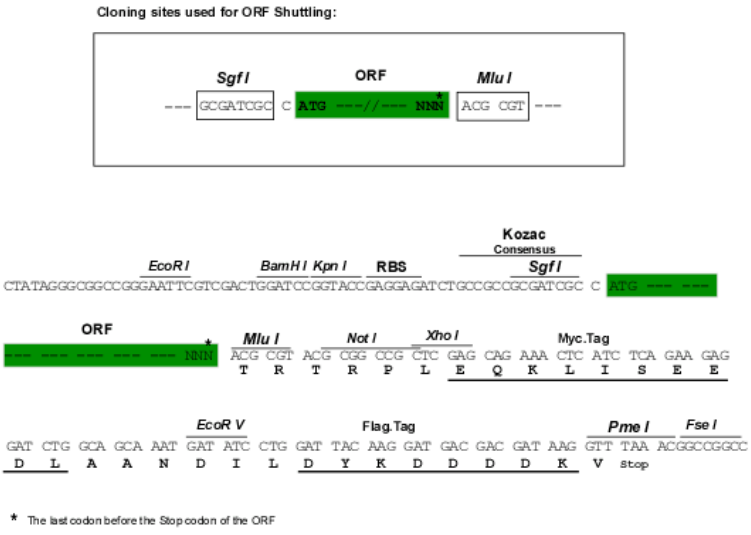
MVILRDKIRFYEGQKLLDSLAETWDFFFSDVLPMLQAIFYPVQGKEPSVRQLALLHFRNAITLSVKLEDA
LARAHARVPPAIVQMLLVLQGVHESRGVTEDYLRLETLVQKVVSPYLGTYGLHSSEGPFTHSCILEKRLL
RRSRSGDVLAKNPVVRSKSYNTPLLNPVQEHEAEGAAAGGTSIRRHSVSEMTSCPEPQGFSDPPGQGPTG
TFRSSPAPHSGPCPSRLYPTTQPPEQGLDPTRSSLPRSSPENLVDQILESVDSDSEGIFIDFGRGRGSGM
SDLEGSGGRQSVV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** https://cdn.origene.com/chromatograms/mk8050_a11.zip

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**




**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.

**RefSeq:** NM_001017529.2, NP_001017529.1

**RefSeq Size:** 1560 bp

**RefSeq ORF:** 882 bp

**Locus ID:** 55615

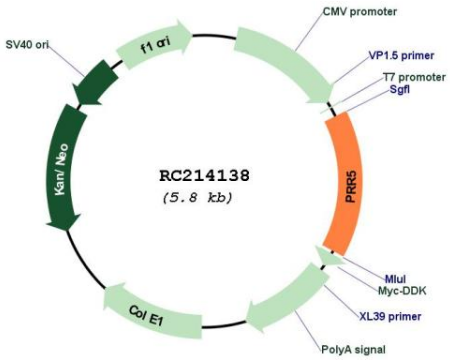
**UniProt ID:** P85299

**Cytogenetics:** 22q13.31

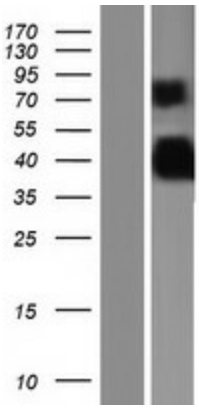
**MW:** 31.9 kDa

**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 RC214138




Western blot validation of overexpression lysate (Cat# [LY422742]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC214138 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).