

Product datasheet for **RG217823**

Protor 1 (PRR5) (NM_015366) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Protor 1 (PRR5) (NM_015366) 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)



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ORF Nucleotide Sequence:

>RG217823 representing NM_015366
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTGGCCAGGATCCTGCGCTGAGCAGGAGTACCCGTTCTACGACGTGGCCAGACATGGCATTCTGC
 AGGTGGCAGGGGATGACCGCTTTGGAAGACGTGTTGTACGTTTCAGCTGCTGCCGGATGCCGCCCTCCCA
 CGAGCTGGACCACCAGCGGCTGCTGGAGTATTTGAAGTACACACTGGACCAATACGTTGAGAACGATTAT
 ACCATCGTCTATTTCCACTACGGGCTGAACAGCCGGAACAAGCCTTCCCTGGGCTGGCTCCAGAGCGCAT
 ACAAGGAGTTCGATAGGAAAGACGGGGATCTCACTATGTGGCCAGGCTGGTCTCGAACTCCAAGCTCAA
 GCGATCTCCACCTCAGCCTCCCAAAGTACTGGGATTACAGGTACAAGAAGAACTTGAAGGCCCTCTAC
 GTGGTGACCCCCACCAGTTCATCAAGGTCTGTGGAACATCTTGAAGCCCTCATCAGTCACAAGTTTG
 GGAAGAAAGTCATCTATTTCACTACCTGAGTGAGCTCCACGAACACCTTAAATACGACCAGCTGGTCAT
 CCCTCCCGAAGTTTTCGGTACGATGAGAAGCTCCAGAGCCTGCACGAGGGCCGACGCCGCTCTACC
 AAGACACCACCGCGCGGCCCGCTGCCACACAGCAGTTTGGCGTCAGTCTGCAATACCTCAAAGACA
 AAAATCAAGGCGAACTCATCCCCCTGTGCTGAGGTTTCAAGTACGTACCTGAGAGAGAAAGGCCTGCG
 CACCGAGGGCCTGTTCCGGAGATCCGCCAGCGTGCAGACCGTCCGCGAGATCCAGAGGCTCTACAACCAA
 GGAAGCCCGTGAACCTTTGACGACTACGGGGACATTACATCCCTGCCGTGATCTGAAGACCTTCTGCG
 GAGAGTGCCCCAGCCGCTTCTGACCTTCCAGGCTACGAGCAGATTCTCGGGATCACCTGTGTGGAGAG
 CAGCCTGCGTGTCACTGGCTGCCGCCAGATCTTACGGAGCCTCCAGAGCACAACCTACGTCGTCTCCGC
 TACCTCATGGGCTTTCTGCATGCGGTGTCCCGGAGAGCATCTTCAACAAAATGAACAGCTCTAACCTGG
 CCTGTGTCTTCGGGCTGAATTTGATCTGGCCATCCAGGGGCTCTCTCCCTGAGTGCCCTGTGCCCCCT
 GAACATGTTCACTGAACGTGATCGAGTACTATGAAAAGATCTTACGACCCCGGAGGCACCTGGGGAG
 CACGGCCTGGCACCATGGGAACAGGGGAGCAGGCAGCCCTTTGCAGGAGGCTGTGCCACGGACACAAG
 CCACGGGCCTACCAAGCCTACCTACCTCCGAGTCCCCTGATGGCAGCCAGAAGACGTCTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG217823 representing NM_015366
 Red=Cloning site Green=Tags(s)

MAGQDPALSTSHPFYDVARHGILQVAGDDRFGRVVTFSCCRMPPSHELDHQRLLEYLYKYLTDQYVENDY
 TIVYFHYGLNSRNKPSLQWLQSAYKEFDRKDGLTMWPRLVSNKLRSSHLSPKYWDYRYKKNLKALY
 VVHPTSFIVLWNILKPLISHKFGKKVIYFNYLSELHEHLKYDQLVIPPEVLRIDEKLQSLHEGRTPPPT
 KTPPPRPPLPTQQFGVSLQYLKDNQGEIIPVLRFTVTVLREKGLRTEGLFRRSASVQTVREIQRLYNQ
 GKPVNFDYDGIHPIPAVILKFTFLRELPPQLLTFQAYEQILGTCVESSLRVTGCRQILRSLPEHNVVLR
 YLMGFLHAVSRSEIFNMNSSLACVFLNLIWPSQGVSSLSALVPLNMFTELLIEYYEKIFSTPEAPGE
 HGLAPWEQGSRAAPLQEAVPRTQATGLTKPTLPPSPLMAARRRL

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_015366

ORF Size: 1392 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_015366.1](#), [NP_056181.1](#)

RefSeq Size: 1653 bp

RefSeq ORF: 1140 bp

Locus ID: 55615

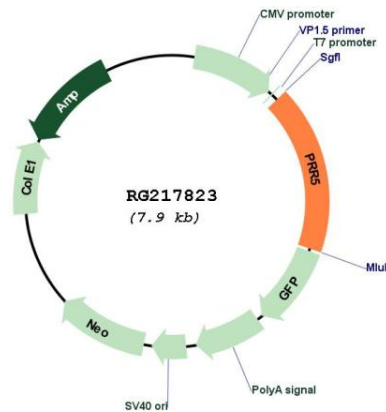
UniProt ID: [P85299](#)

Cytogenetics: 22q13.31

Domains: RhoGAP, SEC14

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 RG217823