

Product datasheet for **MC228440**

Prc1 (NM_001285997) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prc1 (NM_001285997) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Prc1
Synonyms:	D7Ertd348e
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC228440 representing NM_001285997
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGAGGAGAAGTGAAGTGTAGCAGATGAGTCTATCACATGCCTGCAGAAAGCTCTAACTCACCTCCGGG
AAATATGGGAACAAATTGGGATTCCAGAGGAGCAGAGGCTACAAAGAACCGAGGTTGTAAAGAAGCATAT
AAAGGATCTTCTGGATAGAATGATTGCTGAAGAGGAGAGCCTGAGGAAAAGGCTGCTCAAAAAGCATATCC
ATCTGTGAGAAGGAGCTGAGTACCCTGTGCAGTGAAGTACAAGTGAAGCCATTTAGGAAGAAAAAGATA
CAACCATCTTGAACCTAGAAAAAGATTTGCGCACTCAAGTAGAATTGATGAGAAAACAGAAAAAGGAGAG
AAAGCAGGAACCTGAAGCTACTTCAGGAACAGGAGCAAGAAGTCCGTGACATCCTCTGTATGCCGCCCTGT
GATGTGGACAGCACCTCTGTCCCACCTTAGAAGAGCTGAAGCTATTCGACAGCGTGTGGCAACGCTGA
GGGAGACAAAAGGAATCGAGGCGTGAAGAATTTGTCAACATTAAGAAACAAATCATATTGTGTATGGAAGA
ATTAGAACACTCTCCAGATACAAGCTTTGAAAGAGATGTGGTGTGTGAAGATGAAAGTGCTTTTTGTTTA
TCACTGGAGAACATTGCAACATTACAGAAGTTGCTGAAGCAGCTGGAAATGAAAAATCACAAAATGAAG
CAGAATGTGAGGGGCTCCGCACTCAAATCCGAGAGCTCTGGGATAGGTTACAAATACCTGAAGAAGAGAG
AGAGCCTGTGGAGGCAATTATGACTGGATCAAAAACAAAATCAGGAATGCGCTGAAATAGAAAGTGGAT
CGGTTAGAAGAACTGAAAATGCAAAACATAAAGCAAGTATTGAGAAAATCCGAGTGGAGCTGGCTCAAT
TCTGGGACCAGTGTTTTTATAGCCAGGAACAGAGGCGAGCTTTTGCCCTTACTATTCTGAGGACTACAC
AGAAAACCTGCTCCATCTTCATGATGCCGAGATTGTACGGTTAAGAACTACTATGACGTTACAAAGGAG
CTGTTCCAAGGCGTCCAGAAGTGGGAAGAGAGCTGGAACTTTTCTAGAGTTTGAGAGAAAAGCTTCAG
ATCCAGTTCGATTTACAAACCGAGGGGAAATCTTTTAAAAGAAGAAAAGGAACGAGCAAAGCTCCAGAA
AACACTCCCTAAGCTGGAAGAGGAGTTGAAAGCACGGATTGAACAGTGGGAACAGGAGCACTCAACAGCA
TTTGTGGTGAATGGGAGAAATTCATGGAGTATGTTACAGAACAGTGGGAATTACATCGGCTGGAGAAAG
AGCGAGCCAAACAGGAGAGGCAACTGAAGAACAAGAAACAGACAGAGGCAGAGATGCTGTATGGCAGTAC
TCCCCGGACACCTAGCAAAAGACCAGGACAGACGCCCAAGAAAGTCTGGCAAAATGAACACTACCACCATG
TCTAGTGTACACCCAACAGTAGCATTGCGCCTGTCTTTGGTGGATCAGTGTACCGGTACCTATGTCTC
GACTACCCCTTCTGGCAGCAAGTCAGTTGTCACTTCTCTGTGTTCTGGAAGAAAACACCTCGAGCTGC
CCAGCTTAGGGCCAACAAGGAGAACTTGGACCTCAATGGCAGCATCCTGAGCGGTGGGTACCTGGCTCG
ACGCCCTCCAGCACAACCTGCAGCATTAAAGTCTGTTGCCAGCACCTATTCTGAGTTTTCGGAGAACTTT
CAAAGGCTTCAGATCTGATGCTACGTCTGAATCCTCAATTCAACCAACATCCAGTCT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001285997

Insert Size: 1812 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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_001285997.1</u> , <u>NP_001272926.1</u>
RefSeq Size:	3040 bp
RefSeq ORF:	1812 bp
Locus ID:	233406
UniProt ID:	<u>Q99K43</u>
Cytogenetics:	7 45.62 cM
Gene Summary:	<p>Key regulator of cytokinesis that cross-links antiparrallel microtubules at an average distance of 35 nM. Essential for controlling the spatiotemporal formation of the midzone and successful cytokinesis. Required for KIF14 localization to the central spindle and midbody. Required to recruit PLK1 to the spindle. Stimulates PLK1 phosphorylation of RACGAP1 to allow recruitment of ECT2 to the central spindle. Acts as an oncogene for promoting bladder cancer cells proliferation, apoptosis inhibition and carcinogenic progression.</p> <p>[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) uses an alternate in-frame splice junction at the 3' end of an exon compared to variant 1. The resulting isoform (2) has the same N- and C-termini but is shorter compared to isoform 1.</p>