

## Product datasheet for **MC206793**

### **Prc1 (BC005475) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Prc1 (BC005475) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Prc1
Synonyms:	MGC6745
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC005475  
 CCGTTCTCCGTCGCCGCGTGGCAAGTGGAGGGTCTCGATTCTGGACAGCTTGGAGCGTCCACCATGAGG  
 AGAAGTGAGGTGCTAGCAGATGAGTCTATCACATGCCTGCAGAAAGCTCTAACTCACCTCCGGGAAATAT  
 GGGAACTAATTGGGATCCAGAGGAGCAGAGGCTACAAAGAACCAGGTTGTAAGAAGCATATAAAGGA  
 TCTTCTGGATAGAATGATTGCTGAAGAGGAGAGCCTGAGGAAAGGCTGCTTAAAAGCATATCCATCTGT  
 CAGAAGGAGCTGAGTACCCTGTGCAGTGAAGTACAAGTGAAGCCATTTTCAGGAAGAAAAAGATACAACCA  
 TCTTGCAACTAGAAAAAGATCTGCGCACTCAAGTAGAATTGATGAGAAAACAGAAAAAGGAGAGAAAGCA  
 GGAATTGAAGCTACTTCAGGAACAGGAGCAAGAACTCCGTGACATCCTCTGTATGCCGCCCTGTGATGTG  
 GACAGCACCTCTGTCCACCTTAGAAGAGCTGAAGCTATTCCGACAGCGTGTGGCAACGCTGAGGGAGA  
 CAAAGGAATCGAGGCGTGAAGAATTTGTCAACATTAAGAAACAAATCATATTGTGTATGGAAGAATTAGA  
 ACACTCTCCAGATACAAGCTTTGAAAGAGATGTGGTGTGTGAAGATGAAAGTGTCTTTTGTATCACTG  
 GAGAACATTGCAACATTACAGAAGTTGCTGAAGCAGCTGGAAATGAAAAAATCACAAAATGAAGCAGAA  
 GTGAGGGGCTTCGCACTCAAATCCGAGAGCTCTGGGATAGGTTACAAATACCTGAAGAAGAGAGAGACC  
 TGTGGAGGCAATTATGACTGGATCAAAAACAAAATCAGGAATGCGCTGAAATTAGAAGTGGATCGGTTA  
 GAAGAAGTAAAAATGCAAAACATAAAGCAAGTATTGAGAAAATCCGAGTGGAGCTGGCTCAGTTCTGGG  
 ACCAGTGTCTTTATAGCCAGGAACAGAGGCAGGCTTTTGGCCCTTACTATTCTGAGGACTACACAGAAAA  
 CCTGCTCCATCTTCATGATGCCGAGATTGTACGGTTAAGAAACTACTATGACGCTCACAAGGAGCTGTT  
 CAAGGCGTCCAGAAGTGGGAAGAGAGCTGGAACTTTTCTAGAGTTTGAGAGAAAAGCTTCAGATCCAG  
 GTCGGTTTACAAACCGAGGGGAAATCTTTTAAAAGAAGAAAAGGAACGAGCAAAGCTCCAGAAAACACT  
 CCCTAAGCTGGAAGAGGAGTTGAAAGCAGGATTGAACAGTGGGAACAGGAGCACTCAACAGCATTGTG  
 GTGAATGGGCAGAAATTCATGGAGTATGTTACAGAACAGTGGGAATTACATCGGCTGGAGAAAGAGCGAG  
 CCAAACAGGAGAGGCAACTGAAGAACAAGAAACAGACAGAGGCAGAGATGCTGTATGGCAGTACTCCCCG  
 GACACCTAGCAAAAGACCAGGACAGACGCCCAAGAACTGGCAAAATGAACACTACCACATGCTAGT  
 GCTACACCCAACAGTAGCATTCCGCCTGTCTTTGGTGGATCAGTGTACCGGTCACCTATGTCTCGACTAC  
 CCCCTTCTGGCAGCAAGTCAAGTGTCACTTCTCTGTGTTCTGAAAGAAAACACCTCGAGCTGCCAGCT  
 TAGGGCCAACAAGGAGAACTTGGACCTCAATGGCAGCATCCTGAGCGGTGGGTACCTGGCTCGACGCC  
 CTCCAGCACAACTGCAGCATTAAAGTCTGTTGCCAGCACCTATTCTGAGTTTTCGCGAGAACTTTCAAAGG  
 CTTCCAGATCTGATGCTACGTCTCGAATCCTCAATTCAACCAACATCCAGTCTGAGAGTCTTGTCCAG  
 TTAGGCAGCTGGGGCTTCTGTGCCTGGACTGGACTGACGGATACGTAGACAAGGAGTGACGTATACATT  
 TCCATCAGTTTAGATGTTTGAAGTACCTTGGGCAGGTTCTGTTAACTGCACCTAACTCAGACATGAGTA  
 GGACAGAAGGAAGCTGTCCGGGCGGACTGAGGTCACAAAGACTTGCTTTTGATTCAAGAGAGACCTTAA  
 AGGCTAGTTATGATAGTTAAGTACAAGTTTTAACATCTGGTAGCTAATTTTTTCTACCCCATAAATC  
 TACTTTGACTGCTCTTCTAGAGGCTCTGAGTTCAAATCCCAGCAACCACATGGTGGCTCACAACCATCTA  
 TAATGGGATCTGATGTCCTCTTCTGGTGTGCAGAAATAATTTTTTTTTAATTCTACTTATTTCAATACTA  
 TATATTAGAAAATGAAAAACGATTGTGGCCAGCTTTGGCATACAGGGGTACAAGACATGAAGTAATTCT  
 GGTAACATCTAAAAATATATATTTTTTGTTCGCGGACATTTGATTAACTGCTGTAGCTATGGAAGCTTTG  
 ATGTCACCCAGAGGCGTGTACCTGGCTGGCACTATCCCAGTGGGGTTTCTTGTAGTTCCAGTATGAGATG  
 GCCTGACCTGCTGCCAAAAGAGTAGCAGTCATTTCTGTAGTGAATTTCTTGTAGGTATATGTGTGAACA  
 CACATGCTTGTCTGACCTGTTGAGTTTTCTCCAGTCTCCAACCCTGTGCTCATTAGGCCAGTCTGTT  
 CCCTGTAGATGACAACCACATAGAGAGGCTGTCTGGTGGGCTGGGCCATTCTGTATGGAGTCAGCAAC  
 TTTGCACATCTACAAGTTATCTGTGTAATCACGTCCACAATGAGGCTCTCCAAACCATCACTACTCTTC  
 CCCAAAGCACTATATTTATCTGTCTGTCTGTGCCAGTTCTGCCACACTGACTGATCTTGAAGTCTGT  
 CAGTCTGCTCTTACACACACATATATATATGTTGTTTTAAATGTATGAAAATAAAATGTGTATAGTTA  
 CCTTTAAATACTAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** EcoRI-NotI  
**ACCN:** BC005475  
**Insert Size:** 1812 bp

<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">BC005475</a> , <a href="#">AAH05475</a>
<b>RefSeq Size:</b>	2978 bp
<b>RefSeq ORF:</b>	1812 bp
<b>Locus ID:</b>	233406
<b>Cytogenetics:</b>	7 45.62 cM
<b>Gene Summary:</b>	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. [UniProtKB/Swiss-Prot Function]