

## Product datasheet for **RC234357**

### PRC1 (NM\_001267580) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PRC1 (NM_001267580) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PRC1
Synonyms:	ASE1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC234357 representing NM\_001267580  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGGAGAAGTGAAGTCTGGCGGAGGAGTCCATAGTATGTCTGCAGAAAGCCCTAAATCACCTTCGGG  
 AAATATGGGAGCTAATTGGGATTCCAGAGGACCGCGTTACAAAAGAACTGAGGTGGTAAAGAAGCATAT  
 CAAGGAAGAAGGAGAGACGACCATCTTGAACCTAGAAAAAGATTTGCGCACCCAAGTGAATTTGATGCGA  
 AAACAGAAAAAGGAGAGAAAAACAGGAACTGAAGCTACTTCAAGAGCAAGATCAAGAAGTGTGCGAAATTC  
 TTTGTATGCCCACTATGATATTGACAGTGCCTCAGTCCAGCTTAGAAGAGCTGAACCAAGTTCAGGCA  
 ACATGTGACAACCTTTGAGGAAACAAAGGCTTCTAGGCGTGAGGAGTTTGTCAAGTATAAAGAGACAGATC  
 ATACTGTGTATGGAAGAATTAGACCACACCCAGACACAAGCTTTGAAAGAGATGTGGTGTGTGAAGACG  
 AAGATGCCTTTTGTCTTTGGAGAATTGCAACACTACAAAAGTTGCTACGGCAGCTGGAAATGCA  
 GAAATCACAAAATGAAGCAGTGTGTGAGGGCTGCGTACTCAAATCCGAGAGCTCTGGGACAGGTTGCAA  
 ATACCTGAAGAAGAAAGAGAAGCTGTGGCCACCATTATGTCTGGGTCAAAGGCCAAGTCCGGAAAGCGC  
 TGCAATTAGAAGTGGATCGGTTGGAAGAACTGAAAATGCAAAAACATGAAGAAAGTGAATGAGGCAATTCG  
 AGTGGAGCTGGTTCAGTACTGGGACCAAGTCTTTATAGCCAGGAGCAGAGACAAGCTTTTGCCCTTTTC  
 TGTGCTGAGGACTACACAGAAAGTCTGCTCCAGCTCCACGATGCTGAGATTGTGCGGTTAAAAACTACT  
 ATGAAGTTCACAAGGAACTCTTTGAAGTGTCCAGAAGTGGGAAGAACTGGAGGCTTTTCTTAGAGTT  
 TGAGAGAAAAGCTTCAGATCCAAATCGATTTACAAACCGAGGAGGAAATCTTCTAAAAGAAGAAAAACAA  
 CGAGCCAAAGCTCCAGAAAATGCTGCCAAGCTGGAAGAAGAGTTGAAGGCACGAATTGAATTGTGGGAA  
 CGAACATTCAAAGGCATTTATGGTGAATGGGACAGAAATTCATGGAGTATGTGGCAGAACAAATGGGAGAT  
 GCATCGATTGGAGAAAGAGAGAGCCAAAGCAAGAAAGACAACCTGAAGAACAACAAAAACAGACAGACAGAG  
 ATGCTGTATGGCAGCGCTCCTCGAACACCTAGCAAGCGGCGAGGACTGGCTCCCAATACACCGGGCAAAG  
 CACGTAAGCTGAACACTACCACCATGTCCAATGTACGGCCAATAGTAGCATTTCGGCCTATCTTTGGAGG  
 GACAGTCTACCACTCCCCGTGTCTCGACTTCTCCTTCTGGCAGCAAGCCAGTCTGCTTCCACCTGT  
 TCAGGGAAGAAAACACCCCGTACTGGCAGGCATGGAGCCAACAAGGAGAACCTGGAGCTCAACGGCAGCA  
 TCCTGAGTGCAGAACTTCAAAGGCTTCAAATC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC234357 representing NM\_001267580  
 Red=Cloning site Green=Tags(s)

MRRSEVLAEESIVCLQKALNHLREIWELIGIPEDQRLQRTEVVKKHIKEEGETTILQLEKDLRTQVELMR  
 KQKKERKQELKLLQEQQELCEILCMPHYDIDSASVPSLEELNQFRQHVTTTLRETKASRREEFVSIKRQI  
 ILCMEELDHTPDTSFERDVVCEDEDAFCLSLNIATLQKLLRQLEMQKSQNEAVCEGLRTQIRELWDRQ  
 IPEEEREAVATIMSGSKAKVRKALQLEVDRLLEELKMQNMKKVIEAIRVELVQYWDQCFYSQEQRFAPF  
 CAEDYTESLLQLHDAEIVRLKNYYEVHKELFEGVQKWEETWRLFLEFERKASDPNRFNRRGNLLKEEKQ  
 RAKLQKMLPKLEELKARIELWEQEHSAFMVNGQKFMEYVAEQWEMHRLEKERAKQERQLKNKKQTETE  
 MLYGSAPRTPSKRRGLAPNTPGKARKLNTTMSNATANSSIRPIFGGTVYHSPVSRLLPPSGSKPVAASTC  
 SGKKTPTGRHGANKENLELNGSILSARTFKGFQI

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_001267580

ORF Size: 1575 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\\_001267580.1](#), [NP\\_001254509.1](#)

RefSeq Size: 2965 bp

RefSeq ORF: 1578 bp

Locus ID: 9055

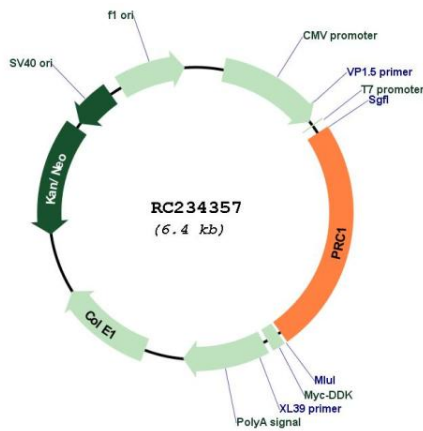
UniProt ID: [O43663](#)

**Cytogenetics:** 15q26.1

**MW:** 61.9 kDa

**Gene Summary:** This gene encodes a protein that is involved in cytokinesis. The protein is present at high levels during the S and G2/M phases of mitosis but its levels drop dramatically when the cell exits mitosis and enters the G1 phase. It is located in the nucleus during interphase, becomes associated with mitotic spindles in a highly dynamic manner during mitosis, and localizes to the cell mid-body during cytokinesis. This protein has been shown to be a substrate of several cyclin-dependent kinases (CDKs). It is necessary for polarizing parallel microtubules and concentrating the factors responsible for contractile ring assembly. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jun 2012]

**Product images:**



Circular map for RC234357