

Product datasheet for **SC307964**

PRC1 (NM_199414) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PRC1 (NM_199414) Human Untagged Clone
Tag:	Tag Free
Symbol:	PRC1
Synonyms:	ASE1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC307964 representing NM_199414.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGAGGAGAAGTGAGGTGCTGGCGGAGGAGTCCATAGTATGTCTGCAGAAAAGCCCTAAATCACCTTCGG
GAAATATGGGAGCTAATTGGGATTCAGAGGACCAGCGTTACAAGAAGCTGAGGTGGTAAAGAAGCAT
ATCAAGGAACTCCTGGATATGATGATTGCTGAAGAGGAAAGCCTGAAGGAAAGACTCATCAAAGCATA
TCCGTCTGTGCAGAAAGAGCTGAACACTCTGTGCAGCGAGTTACATGTTGAGCCATTTTCAGGAAGAAGGA
GAGACGACCATCTTGCAACTAGAAAAAGATTTGCGCACCCAAAGTGAATTGATGCGAAAAACAGAAAAAG
GAGAGAAAACAGGAACTGAAGCTACTTCAAGAGCAAGTCAAGAAGTGTGCGAAATTCCTTGTATGCC
CACTATGATATTGACAGTGCCTCAGTGCCAGCTTAGAAGAGCTGAACCAGTTCAGGCAACATGTGACA
ACTTTGAGGGAACAAAGGCTTCTAGGCGTGAGGAGTTTGTGAGTATAAGAGACAGATCACTGTGT
ATGGAAGAATTAGACCACACCCAGACACAAGCTTTGAAAGAGATGTGGTGTGTGAAGACGAAGATGCC
TTTTGTTGTCTTTGGAGAATATTGCAACACTACAAAAGTTGCTACGGCAGCTGGAAATGCAGAAATCA
CAAATGAAGCAGTGTGTGAGGGGCTGCGTACTCAAATCCGAGAGCTCTGGGACAGGTTGCAAATACCT
GAAGAAGAAAGAGAAGCTGTGGCCACCATTATGTCTGGGTCAAAGGCCAAGGTCGGAAAGCGCTGCAA
TTAGAAGTGGATCGGTTGGAAGAAGTGAATGCAAAAACATGAAGAAAGTGAATGAGGCAATTCGAGTG
GAGCTGGTTCAGTACTGGGACCAGTGTCTTTATAGCCAGGAGCAGAGACAAGCTTTTGCCCTTTCTGT
GCTGAGGACTACACAGAAAGTCTGCTCCAGCTCCACGATGCTGAGATTGTGCGTTAAAAAACTACTAT
GAAGTTCACAAGGAACTTTTGAAGGTGCCAGAAGTGGGAAGAAACCTGGAGGCTTTTCTTAGAGTTT
GAGAGAAAAGCTTCAGATCCAAATCGATTTACAAACCGAGGAGGAAATCTTCTAAAAGAAGAAAAACAA
CGAGCAAAGCTCCAGAAAATGCTGCCAAGCTGGAAGAAGAGTTGAAGGCACGAATTGAATTGTGGGAA
CAGGAACATTCAAAGGCATTTATGGTGAATGGGCAGAAATTCATGGAGTATGTGGCAGAACAATGGGAG
ATGCATCGATTGGAGAAAAGAGAGAGCAAGCAGGAAAGACAAGTGAAGAACAAAAACAGACAGAGACA
GAGATGCTGTATGGCAGCGCTCCTCGAACCTAGCAAGCGGCGAGGACTGGCTCCCAATACACCGGGC
AAAGCACGTAAGCTGAACACTACCACCTGTCCAATGCTACGGCCAATAGTAGCATTGCGCTATCTTT
GGAGGGACAGTCTACCACTCCCCGTGTCTCGACTTCTCCTTCTGGCAGCAAGCCAGTCTGCTTCC
ACCTGTTTCAGGGAAGAAAACACCCCGTACTGGCAGGCATGGAGCCAACAAGGAGAACCTGGAGCTCAAC
GGCAGCATCTGAGTGCAGAACTTTCAAAGGCTTCCAAATCTGA
ACGGGTACGGCGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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- Restriction Sites:** SgfI-MluI
- Plasmid Map:** □
- ACCN:** NM_199414
- Insert Size:** 1701 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:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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_199414.1](#)

RefSeq Size: 3011 bp

RefSeq ORF: 1701 bp

Locus ID: 9055

Cytogenetics: 15q26.1

MW: 66.2 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]

Transcript Variant: This variant (3) uses an alternate splice site and lacks an exon within the coding region compared to variant 1. The resulting isoform (3) has a distinct and shorter C-terminus, as compared to isoform 1.