

Product datasheet for **SC321569**

PRC1 (NM_003981) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PRC1 (NM_003981) Human Untagged Clone
Tag:	Tag Free
Symbol:	PRC1
Synonyms:	ASE1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_003981.2
GCTACGCGGAGTGACATCGCCGGTGTTCGCGGTGGTTGTTGCTCTCGGGCCGTGTGGA
GTAGGCTGGACCTGGACTCACGGCTGCTTGGAGCGTCCGCCATGAGGAGAAGTGAGGTG
CTGGCGGAGGAGTCCATAGTATGTCTGCAGAAAGCCCTAAATCACCTTCGGGAAATATGG
GAGCTAATTGGGATTCCAGAGGACCAGCGGTTACAAAGAAGTGAAGTGGTAAAGAAGCAT
ATCAAGGAACTCCTGGATATGATGATTGCTGAAGAGGAAAGCCTGAAGGAAAGACTCATC
AAAAGCATATCCGTCTGTGCAGAAAGAGCTGAACACTCTGTGCAGCGAGTTACATGTTGAG
CCATTTTCAGGAAGAAGGAGAGACAACCATCTTGCAACTAGAAAAAGATTTGCGCACCCAA
GTGGAATTGATGCGAAAACAGAAAAGGAGAGAAAACAGGAACTGAAGCTACTTCAAGAG
CAAGATCAAGAAGTGTGCGAAATCTTTGTATGCCCACTATGATATTGACAGTGCCTCA
GTGCCAGCTTAGAAGAGCTGAACCAAGTTCAGGCAACATGTGACAACTTTGAGGGAAACA
AAGGCTTCTAGGCGTGAGGAGTTTGTCAAGTATAAAGAGACAGATCATACTGTGTATGGAA
GAATTAGACCACACCCAGACACAAGCTTTGAAAGAGATGTGGTGTGTGAAGACGAAGAT
GCCTTTTGTGTTGCTTTGGAGAATATTGCAACTACAAAAGTTGCTACGGCAGCTGGAA
ATGCAGAAATCACAAAATGAAGCAGTGTGTGAGGGGCTGCGTACTCAAATCCGAGAGCTC
TGGGACAGGTTGCAAATACCTGAAGAAGAAAGAGAAGCTGTGGCCACCATTATGTCTGGG
TCAAAGGCCAAGGTCCGGAAGCGCTGCAATTAGAAGTGGATCGGTTGGAAGAAGTAAA
ATGCAAAACATGAAGAAAGTATTGAGGCAATTCGAGTGGAGCTGGTTCAGTACTGGGAC
CAGTGTCTTTATAGCCAGGAGCAGAGACAAGCTTTTGCCCTTTCTGTGCTGAGGACTAC
ACAGAAAGTCTGCTCCAGCTCCACGATGCTGAGATTGTGCGGTTAAAAAACTACTATGAA
GTTCAAGAAGAACTCTTTGAAGGTGTCCAGAAAGTGGGAAGAAACCTGGAGGCTTTTCTTA
GAGTTTGAGAGAAAAGCTTCAGATCCAAATCGATTTACAAACCGAGGAGGAAATCTTCTA
AAAGAAGAAAACAACGAGCCAAGCTCCAGAAAATGCTGCCCAAGCTGGAAGAAGAGTTG
AAGGCACGAATTGAATTGTGGAAACAGGAACATTCAAAGGCATTTATGGTGAATGGGCAG
AAATTCATGGAGTATGTGGCAGAACAATGGGAGATGCATCGATTGGAGAAAGAGAGAGCC
AAGCAGGAAAAGACAACCTGAAGAACAAAAACAGACAGAGACAGAGATGCTGTATGGCAGC
GCTCCTCGAACACCTAGCAAGCGCGGAGGACTGGCTCCCAATACACCGGGCAAAGCACGT



[View online >](#)

AAGCTGAACACTACCACCATGTCCAATGCTACGGCCAATAGTAGCATTCCGGCCTATCTTT
 GGAGGGACAGTCTACCACTCCCCGTGTCTCGACTTCTCCTTCTGGCAGCAAGCCAGTC
 GCTGCTCCACCTGTTTCAGGGAAGAAAACACCCCGTACTGGCAGGCATGGAGCCAACAAG
 GAGAACCTGGAGCTCAACGGCAGCATCCTGAGTGGTGGGTACCCTGGCTCGGCCCCCTC
 CAGCGCAACTTCAGCATTAACTTCTGTTGCCAGCACCTATTCTGAGTTTGCAGGATCCG
 TCCCTCTCTGACAGTTCCTACTGTTGGGCTTCAGCGAGAAGTTTCAAAGGTTCCAATCT
 GATGCTACTTCTGGAATCCTCAATTCAACCAACATCCAGTCTGAGAAGCCCTGATCAGT
 CAACCAGCTGTGGCTTCCCTGTGCCTAGACTGGACCTAATTATATGGGGGTGACTTTAGTT
 TTTCTTACAGTTAGGCGTGCTTGAACCTTGGCCAGGTTCCATGACCATGGGCCTAACTT
 AAAGATGTGAATGAGTGTACAGTTGAAAGCCCATCATAGGTTTGTGGTCTAGGAGAC
 TTGGTTTTGACTTATATACATGAAAAGTTTATGGCAAGAAGTGCAAAATTTAGCATATGG
 GGCCTGACTTCTTACCACATAATTCTACTTGTGAAGCATGATCAAAGCTTGTTTTATT
 TCACCACTGTAGGAAAATGATTGACTATGCCATCCCTGGGGTAATTTTGGCATGTATA
 CCTGTAAGTAAATTAACATCTTTTTTGTAGGCATGTTCAATTAATGCTGTAGCTAT
 CATAGCTTGTCTTACCTGAAGCCTTGTCCCCACCACACAGGACAGCCTTCTCCTGAA
 GAGAATGTCTTTGTGTGCCGAAGTTGAGATGGCCTGCCCTACTGCCAAAGAGGTGACAG
 GAAGGCTGGGAGCAGCTTGTAAATTGTGTTCAAGTCTGTTACACAGTGCAATTGCCCTT
 TGTGGGGGTATGCATGTATGAACACACATGCTTGTGGAAACGCTTCTCGGCGTTTGTG
 CCTTGGCTCTCATCTCCCCATTCTGTGCCTACTTGTGCTGAGTTCTTACCCCCGCA
 GTTGCCAGCCACATTTGGAGTCTGTTTGTCCAGTGGGTTGAGCTGTCTTGTGCTGGAG
 ATCTGGAACCTTGCACATGTCACTACTGGGAGGTGTTCTGCTAGCTTCCACGATGA
 GGCGCCCTCTTACCTATCCTCTCAATCACTACTCTTCTTGAAGCACTATTATTTATTCT
 TCCGCTGTCTGCCTGCAGCAGTACTACTGTCAACATAGTAAATGGTTCTCAAAGCTT
 ACCAGTGTGGACTTGGTGTAGCCACGCTTTACTCATACAGTACGTGTCCTGTTTTTA
 AAATATACAATTATTCTTAAAAATAAATTAATACTGTATACTTACATTTCAAAAAAAAA
 AAAAAAAAAAAAA

- Restriction Sites:** Please inquire
- ACCN:** NM_003981
- 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_003981.2](#), [NP_003972.1](#)

RefSeq Size: 3128 bp

RefSeq ORF: 1863 bp

Locus ID: 9055

UniProt ID: [O43663](#)

Cytogenetics: 15q26.1

Domains: MAP65_ASE1

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 (1) represents the longest transcript and encodes the longest isoform (1).