

Product datasheet for **RG201141**

PRC1 (NM_003981) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PRC1 (NM_003981) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PRC1
Synonyms:	ASE1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG201141 representing NM_003981
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGGAGAAGTGAAGTCTGGCGGAGGAGTCCATAGTATGTCTGCAGAAAGCCCTAAATCACCTTCGGG
 AAATATGGGAGCTAATTGGGATTCCAGAGGACCAGCGGTTACAAAGAAGTGAAGTGGTAAAGAAGCATAT
 CAAGGAACTCCTGGATATGATGATTGCTGAAGAGGAAAGCCTGAAGGAAAGACTCATCAAAAGCATATCC
 GTCTGTGCAGAAAGAGCTGAACACTCTGTGCAGCGAGTTACATGTTGAGCCATTTAGGAAGAAGGAGAGA
 CAACCATCTTGAACCTAGAAAAAGATTTGCGCACCCAAGTGAATTGATGCGAAAACAGAAAAAGGAGAG
 AAAACAGGAACTGAAGCTACTTCAAGAGCAAGATCAAGAAGTGTGCGAAATTCCTTGTATGCCCCACTAT
 GATATTGACAGTGCCTCAGTGCCAGCTTAGAAGAGCTGAACAGTTGAGCAACATGTGACAACTTTGA
 GGGAAACAAAGGCTTCTAGGCGTGAGGAGTTTGCAGTATAAAGAGACAGATCATACTGTGTATGGAAGA
 ATTAGACCACACCCAGACACAAGCTTTGAAAGAGATGTGGTGTGTGAAGACGAAGATGCCTTTTGTGTTG
 TCTTTGGAGAATATTGCAACACTACAAAAGTTGCTACGGCAGCTGGAAATGCAGAAATCACAAAATGAAG
 CAGTGTGTGAGGGGCTGCGTACTCAAATCCGAGAGCTCTGGGACAGGTTGCAAAATACCTGAAGAAGAAAG
 AGAAGCTGTGGCCACCATTATGTCTGGGTCAAAGGCCAAGGTCGGAAAGCGCTGCAATTAGAAGTGGAT
 CGGTTGGAAGAACTGAAAATGCAAAACATGAAGAAAGTGAATTGAGGCAATTCGAGTGGAGCTGGTTCAGT
 ACTGGGACCAGTGCTTTTATAGCCAGGAGCAGAGACAAGCTTTTGCCCTTTCTGTGCTGAGGACTACAC
 AGAAAGTCTGCTCCAGCTCCACGATGCTGAGATTGTGCGGTTAAAAACTACTATGAAGTTCACAAGGAA
 CTCTTTGAAGGTGTCCAGAAGTGGGAAGAAACCTGGAGGCTTTTCTTAGAGTTTGAGAGAAAAGCTTCAG
 ATCCAAATCGATTTACAAACCGAGGAGGAAATCTTCTAAAAGAAGAAAAACAACGCAAGCTCCAGAA
 AATGCTGCCCAAGCTGGAAGAAGAGTTGAAGGCACGAATTGAATTGTGGGAACAGGAACATTCAAAGGCA
 TTTATGGTGAATGGGCAGAAATTCATGGAGTATGTGCGAGAACAATGGGAGATGCATCGATTGGAGAAAG
 AGAGAGCCAAGCAGGAAAGACAACCTGAAGAACAAAAACAGACAGAGACAGAGATGCTGTATGGCAGCGC
 TCCTCGAACACCTAGCAAGCGGCGAGGACTGGCTCCCAATACACCGGGCAAAGCACGTAAGCTGAACACT
 ACCACCATGTCCAATGCTACGGCCAATAGTAGCATTGCGCCTATCTTTGGAGGGACAGTCTACCACTCCC
 CCGTGTCTCGACTTCTCCTTCTGGCAGCAAGCCAGTCTGCTTCCACCTGTTGAGGGAAGAAAACACC
 CCGTACTGGCAGGCATGGAGCCAACAAGGAGAACCTGGAGCTCAACGGCAGCATCTGAGTGGTGGGTAC
 CCTGGCTCGGCCCCCTCCAGCGCAACTCAGCATTAAATCTGTTGCCAGCACCTATTCTGAGTTTGCGA
 AGGATCCGTCCCTCTCTGACAGTTCCACTGTTGGGCTTACAGCGAGAACTTCAAAGGCTTCAAATCTGA
 TGCTACTTCTGGAATCCTCAATCAACCAACATCCAGTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG201141 representing NM_003981
 Red=Cloning site Green=Tags(s)

MRRSEVLAEEESIVCLQKALNHLREIWELIGIPEDQRLQRTEVVKKHIKELLDMMIAEEESLKERLIKISIS
 VCQKELNTLCELHVPEPFQEEGETTILQLEKDLRTQVELMRKQKQKQELKLLQEQQELCEILCMPHY
 DIDSASVPSLEELNQFRQHVTTLRETKASRREEFVSIKQIILCMEELDHTPDTSFERDVCEDAFCL
 SLENIATLQKLLRQLEMQKSQNEAVCEGLRTQIRELWDRLQIPEEEREAVATIMSGSKAKVRKALQLEVD
 RLEELKMQNMKKVIEAIRVELVQYWDQCFYSQEQRAFAPFCAEDYTESLLQLHDAEIVRLKNYYEVHKE
 LFEGVQKWEETWRLFLEFERKASDPNRFNTRGGNLLKEEKQRAKLQKMLPKLEELKARIELWEQEHKA
 FMVNGQKFMVEYVAEQWEMHRLEKERAKQERQLKNKKQTEMLYGSAPRTPSKRRGLAPNTPGKARKLNT
 TTMSNATANSSIRPIFGGTVYHSPVSRLLPPSGSKPVAASTCSGKKTPTRTGRHGANKENLELNGSILSGGY
 PGSAPLQRNFSINSVASTYSEFAKDPSSLSDSSTVGLQRELSKASKSDATSGILNSTNIQS

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

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:	<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:	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]