

Product datasheet for **SC118503**

PLRG1 (NM_002669) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PLRG1 (NM_002669) Human Untagged Clone
Tag:	Tag Free
Symbol:	PLRG1
Synonyms:	Cwc1; PRL1; PRP46; PRPF46; TANGO4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC118503 sequence for NM_002669 edited (data generated by NextGen Sequencing)

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ATGGTCGAGGAGGTACAGAAACATTCTGTACACACCCCTTGTGTTTCAGGTCGTTGAAGAGG
ACCCATGACATGTTTGTAGCTGATAATGGAAAACCTGTGCCTTTAGATGAAGAGAGTAC
AAACGAAAAATGGCAATCAAGCTTCGTAATGAGTATGGTCCTGTGTTGCATATGCCTACT
TCAAAAAGAAAATCTTAAAGAGAAGGGTCCTCAGAATGCAACGGATTATATGTTTCATAAA
CAGTACCCTGCCAATCAAGGACAAGAAGTTGAATACTTTGTGGCAGGTACACATCCATAC
CCACCAGGACCTGGGGTTGCTTTGACAGCAGATACTAAGATCCAGAGAATGCCAAGTGAA
TCAGCTGCACAGTCCTTAGCGGTGGCATTACCTTTGCAGACCAAGGCTGATGCAAAATCGT
ACTGCCCTAGTGAAGTGAATACCGACATCCTGGGGCTTCTGACCGTCCACAGCCTACA
GCGATGAATTCAATTGTCATGGAGACTGGCAATACCAAGAACTCTGCACTGATGGCTAAA
AAAGCCCTACAATGCCAAAACCCAGTGGCACCACCGTGGAACTCTACAGGGTTATC
AGTGGGCATCTTGGCTGGGTTTCGATGTATTGCTGTGGAACCTGGAAATCAGTGGTTTGT
ACTGGATCTGCTGACAGAACTATAAAGATCTGGGACTTGGCTAGTGGCAAATTTAAACTG
TCATTGACTGGGCATATTAGTACTGTGCGGGGCTGATAGTAAGCACAAGGAGCCCATAT
CTGTTCTTGTGGAGAAGACAAAACAAGTGAAATGCTGGGATCTCGAATACAATAAGGTT
ATACGGCATTATCATGGACATTTAAGTGCAGTGTATGGTTTGGATTTGCACCCGACAATC
GATGTGTTGGTAACTGTAGTCGAGATTCAACTGCACGGATTTGGGATGTGAGAACTAAA
GCCAGTGTACACACATTATCTGGACATACAAAATGCAGTTGCTACAGTGAGATGTCAGGCT
GCAGAACCACAGATTATTACAGGAAGCCATGATACTACAATTGATTATGGGATCTGGTG
GCTGGAAAAACAAGAGTGACATTAACAAATCACAAAAATCAGTTAGGGCTGTGGTTTTA
CATCCAAGACATTACACATTTGCATCTGGTTCTCCAGATAACATAAAGCAGTGGAAATTC
CCTGATGGAAAGTTTCATACAAAATCTTTCCGGTCATAATGCTATTATTAACACATTGACG
GTAATTTCTGATGGAGTCTTGTATCTGGAGCTGACAATGGCACCATGCATCTTTGGGAC
TGGAGAACTGGCTACAATTTTCAGAGAGTTCACGCAGCTGTGCAACCTGGGCTTTTGGAC
AGTGAATCAGGAATATTTGCTTGTGCTTTTGTGATCAGTCTGAAAGTCGATTACTAACAGCT
GAAGCTGATAAAACCATTAAGTATACAGAGAGGATGACACAGCCACAGAAGAACTCAT
CCAGTCAGCTGGAAACCAGAAATATCAAGAGAAAGAGATTTTAA
    
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Clone variation with respect to NM_002669.3
1032 a=>g;1218 t=>a

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002669 unedited

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TATTTTGTAAACGACTCACTATAGGGCGGCNCGGATTCGGCACGAGGCACAGCTGTGG
CGGCGGGTACTGCGTTAGTGATTAGAGTTTCTTCCCTGCCGGAGGTGGGATACACGGTAG
CATCATGGTCGAGGAGGTACAGAAACATTCTGTACACACCCTTGTGTTTCAGGTCGTTGAA
GAGGACCCATGACATGTTTGTAGCTGATAATGGAAAACCTGTGCCTTTAGATGAAGAGAG
TCACAAAAGAAAAATGGCAATCAAGCTTCGTAATGAGTATGGTCCTGTGTTGCATATGCC
TACTTCAAAAAGAAAATCTTAAAGAGAAGGGTCCTCAGAATGCAACGGATTATATGTTCA
TAAACAGTACCCTGCCAATCAAGGACAAGAAGTTGAATACTTTGTGGCAGGTACACATCC
ATACCCACCAGGACCTGGGGTTGCTTTGACAGCAGATACTAAGATCCAGAGAATGCCAAG
TGAATCAGCTGCACAGTCCTTAGCGGTGGCATTACCTTTGCAGACCAAGGCTGATGCAAA
TCGTAAGTCCCCTAGTGGAAAGTGAATACCGACATCCTGNGGCTTCTGACCGTCCACAGCC
TACAGCGATGAATTCAATTGTCATGGAGACTGGCAATACCAAGAACTCTGCACTGATGGC
TAAAAAAGCCCCTACAATGCCAAAACCCAGTGGCACCACCGTGGAACTCTACAGGGT
TATCAGTGGGCATCTTGGCTGGGTTTCGATGTATTGCTGTGGAACCTGNAATCAGTGGTT
TGTTACTGGATCTGCTGACAGAACTATAAAGATCTGGGACTTGGCTAGTGGCANATTAAAN
ACTGTCATTGACTGGGCATATTAGTACTGTGCGGNGCGTGATAGTAAGCACAAGGAGCCC
ATATCTGTTCTTGTGGNAGAGAAACAAGTGAATGCTGGGATCTCGAATACATAGGT
ATACGCATTTTCATGGCATTNAGTGCAGTGT
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_002669 unedited GCGGCCGCAATTTAGNATCGAGTTTTTTTTTTTTTTTTTTAGGGGACAGGGGACAGTTTA TTGTAAAATATGAAGCAGCAATGATTGAAGCAAGTGAATTTCTCCTTTATATTCCCAGCC AGAGCACAAAATGACTGGATATCCTCATGAACGCCAAGCTTTTTTTTTTTAATTA GAAAAAAGAGAGAGAAAAAATTGCACATTCATTAATCTCTTTCTTTGATAATTT CTGGTTCCAGCTGACTGGATGAGTTTCTTGTGGCTGTGACATACTCTGCATACTT TAATGGTTTTATCAGCTAGAGCTGTTAACAAATGGACTTTGAGACTGATCAAAAGCACAAG CAAACATTCCTGATTCACTGACAAAAGACCCAGTTGCACAATTGCGTGAACCTCTGAA AATTGCACCCAGATCCTCACTGTCCAAACATGCATGGTGCCATTGCCAGGTGCAGGAACA AGCACCGCATGATAGGCGACCCGGGACTGTGCTAAAGACACCCTTACCCCCGCAAGATT CTGAGTCGACCTCGCTATCGCCAAAATCCCTGATCCCAGTTCTCTGCCACCCCCCAC CCGCCCCATGTACACCCGCTACTACCCCCCCCCCTTTCCAACACTGCTATCT CCCTCTCCCCGCTGCACAACGCCACACCCATCTACAACCTCCGCCGACCTCCCGCT TACTGCCTCCCCCCCCATTCTCTACCCCCCTACCCTACCTCCCTATAGTGCCCC CCCACCCCTATCTCCCCCACTACCTCCCTGTACTACTCTTTCGCTCACCAACTC CCCCCCCCACCTCCTCGCCCCCCCCCTATCCTTTACATACCTCATACCTCA TCCTCCCTACCGACCCCCCT
Restriction Sites:	NotI-NotI
ACCN:	NM_002669
Insert Size:	1870 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).
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_002669.1 , NP_002660.1
RefSeq Size:	1548 bp
RefSeq ORF:	1545 bp
Locus ID:	5356
UniProt ID:	O43660
Cytogenetics:	4q31.3
Domains:	WD40
Protein Families:	Transcription Factors

Protein Pathways: Spliceosome

Gene Summary: This gene encodes a core component of the cell division cycle 5-like (CDC5L) complex. The CDC5L complex is part of the spliceosome and is required for pre-mRNA splicing. The encoded protein plays a critical role in alternative splice site selection. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Jan 2011]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.