

## Product datasheet for **RC232881**

### **PLRG1 (NM\_001201564) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PLRG1 (NM_001201564) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PLRG1
Synonyms:	Cwc1; PRL1; PRP46; PRPF46; TANGO4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC232881 representing NM\_001201564  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGTCGAGGAGGTACAGAAACATTCTGTACACACCCCTTGTTTCAGGTCGTTGAAGAGGCCCATGACA  
 TGTTTGTAGCTGATAATGGAAAACCTGTGCCTTTAGATGAAGAGAGTACAAAACGAAAAATGGCAATCAA  
 GCTTCGTAATGAGTATGGTCTGTGTTGCATATGCCTACTTCAAAAAGAAAATCTTAAAGAGAAGGTCCT  
 CAGAATGCAACGGATTTCATATGTTCAAAACAGTACCCTGCCAATCAAGGACAAGAAGTTGAATACTTTG  
 TGGCAGGGGTTGCTTTGACAGCAGATACTAAGATCCAGAGAATGCCAAGTGAATCAGCTGCACAGTCCTT  
 AGCGGTGGCATTACCTTTGCAGACCAAGGCTGATGCAAAATCGTACTGCCCTAGTGAAGTGAATACCGA  
 CATCCTGGGGCTTCTGACCGTCCACAGCCTACAGCGATGAATTCAATTGTCATGGAGACTGGCAATACCA  
 AGAACTCTGCACTGATGGCTAAAAAGCCCTACAATGCCAAAACCCAGTGGCACCCACCGTGGAAACT  
 CTACAGGGTTATCAGTGGGCATCTTGGCTGGGTTTCGATGTATTGCTGTGGAACCTGGAAATCAGTGGTTT  
 GTTACTGGATCTGCTGACAGAACTATAAAGATCTGGGACTTGGCTAGTGGCAAATTTAAACTGTCATTGA  
 CTGGGCATATTAGTACTGTGCGGGGCGTGATAGTAAGCACAAGGAGCCCATATCTGTTCTTGTGGAGA  
 AGACAAAACAAGTAAATGCTGGGATCTCGAATACAATAAGGTTATACGGCATTATCATGGACATTTAAGT  
 GCAGTGTATGGTTTGGATTTGCACCCGACAATCGATGTGTTGGTAACCTGTAGTCGAGATTCACATGCAC  
 GGATTTGGGATGTGAGAACTAAAGCCAGTGTACACACATTATCTGGACATACAAATGCAGTTGCTACAGT  
 GAGATGTCAGGCTGCAGAACCAAAATTATTACAGGAAGCCATGATACTACAATTCGATTATGGGATCTG  
 GTGGCTGGAAAAACAAGAGTGACATTAACAAATCACAAAAATCAGTTAGGGCTGTGGTTTTACATCCAA  
 GACATTACACATTTGCATCTGGTTCTCCAGATAACATAAAGCAGTGGAAATCCCTGATGGAAAGTTTCA  
 TCAAAATCTTTCCGGTCATAATGCTATTATTAACACATTGACGGTAAATTCGATGGAGTGTGTTATCT  
 GGAGCTGACAATGGCACCATGCATCTTTGGGACTGGAGAAGTGGCTACAATTTTCAGAGAGTTTCACGCG  
 CTGTGCAACCTGGGTCTTTGGACAGTGAATCAGGAATATTTGCTTGTGCTTTTGTATCAGTCTGAAAGT  
 ATTACTAACAGCTGAAGCTGATAAAACCATTAAGTATACAGAGAGGATGACACAGCCACAGAAGAAACT  
 CATCCAGTCAGCTGAAACCAGAAATTATCAAGAGAAAGAGATTT

**ACCGGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC232881 representing NM\_001201564  
 Red=Cloning site Green=Tags(s)

MVEEVQKHSVHTLVFRSLKRTHDMFVADNGKPVPLDEESHKRKMAIKLRNEYGPVLHMPTSKENLKEKGP  
 QNATDSYVHKQYPANQQQEVEYFVAGVALTADTKIQRMPSESAQAQSLAVALPLQTKADANRTPAPSGSEYR  
 HPGASDRPQPTAMNSIVMETGNTKNSALMAKKAPTMPKPQWHPPWKL YRVISGHLGWVRCIAVEPGNQWF  
 VTGSADRTIKIWDLASGKLLSLTGHISTVRGVI VSTRSPYLFSCGEDKQVWCWDL EYKVI RHYHGHLS  
 AVYGLDLHPTIDVLTCSR DSTARIWV RTKASVHTLSGHTNAVATVRCQAAEPQIITGSHD TTI RLDL  
 VAGKTRVTLTNHKKSVRAVVLHPRHYTFASGSPDN IKQWKFPDGSFIQNL SGHNAIINTLTVNSDGV LVS  
 GADNGTMHLWDWRTGYNFQRVHAAVQPGSLDSESGIFACAFDQSESRLLTAEADKTIKVYREDDTATEET  
 HPVSWKPEI IKRKRF

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

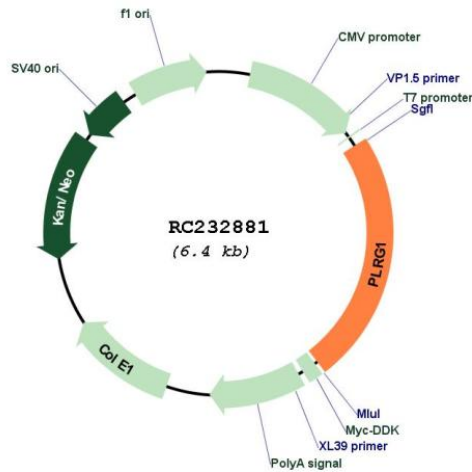
Cloning Scheme:

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM\_001201564

ORF Size: 1515 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001201564.1, NP_001188493.1</u>
<b>RefSeq Size:</b>	3347 bp
<b>RefSeq ORF:</b>	1518 bp
<b>Locus ID:</b>	5356
<b>UniProt ID:</b>	<u>O43660</u>
<b>Cytogenetics:</b>	4q31.3
<b>Protein Families:</b>	Transcription Factors
<b>Protein Pathways:</b>	Spliceosome
<b>MW:</b>	56.7 kDa
<b>Gene Summary:</b>	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]