

Product datasheet for **RG210603**

PLRG1 (NM_002669) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PLRG1 (NM_002669) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PLRG1
Synonyms:	Cwc1; PRL1; PRP46; PRPF46; TANGO4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG210603 representing NM_002669
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTCGAGGAGGTACAGAAACATTCTGTACACACCCCTTGTTTCAGGTCGTTGAAGAGGACCCATGACA
 TGTTTGTAGCTGATAATGGAAAACCTGTGCCTTTAGATGAAGAGAGTCACAAACGAAAAATGGCAATCAA
 GCTTCGTAATGAGTATGGTCCTGTGTTGCATATGCCTACTTCAAAAAGAAAATCTTAAAGAGAAGGTCCT
 CAGAATGCAACGGATTTCATATGTTTCATAAACAGTACCCTGCCAATCAAGGACAAGAAGTTGAATACTTTG
 TGGCAGGTACACATCCATACCCACCAGGACCTGGGGTTGCTTTGACAGCAGATACTAAGTCCAGAGAAT
 GCCAAGTGAATCAGCTGCACAGTCCTTAGCGGTGGCATTACCTTTGCAGACCAAGGCTGATGCAAAATCGT
 ACTGCCCTAGTGAAGTGAATACCGACATCCTGGGGCTTCTGACCGTCCACAGCCTACAGCGATGAATT
 CAATTGTCATGGAGACTGGCAATACCAAGAACTCTGCACTGATGGCTAAAAAGCCCTACAATGCCAAA
 ACCCCAGTGGCACCCACCGTGGAACTCTACAGGGTTATCAGTGGGCATCTTGGCTGGGTTCGATGTATT
 GCTGTGGAACCTGGAAATCAGTGGTTTGTACTGGATCTGCTGACAGAATATAAAGATCTGGGACTTGG
 CTAGTGGCAAATAAAAGTGCATTGACTGGGCATATTAGTACTGTGCGGGCGTGATAGTAAGCACAAG
 GAGCCCATATCTGTTCTTGTGGAGAAGACAAACAAGTGAATGCTGGGATCTCGAATACAATAAGGTT
 ATACGGCATTATCATGGACATTTAAGTGCAGTGTATGGTTTGGATTTGCACCCGACAATCGATGTGTTGG
 TAACCTGTAGTCGAGATCAACTGCACGGATTTGGGATGTGAGAACTAAAGCCAGTGTACACACATTATC
 TGGACATACAAATGCAGTTGCTACAGTGAGATGTCAGGCTGCAGAACCACAAATATTACAGGAAGCCAT
 GATACTACAATTCGATTATGGGATCTGGTGGCTGGAAAAACAAGAGTGACATTAACAAATCACAAAAAT
 CAGTTAGGGCTGTGGTTTTACATCCAAGACATTACACATTTGCATCTGGTTCTCCAGATAAAGCA
 GTGGAAATTCCTGATGGAAGTTTCATTCAAAATCTTTCCGGTCAATGCTATTATTAACACATTGACG
 GTAAATCTGATGGAGTCTTGTATCTGGAGCTGACAATGGCACCATGCATCTTTGGGACTGGAGAAGT
 GCTACAATTTTCAGAGAGTTCACGCAGCTGTGCAACCTGGGTCTTTGGACAGTGAATCAGGAATATTTGC
 TTGTGCTTTTGCAGTCTGAAAGTCGATTACTAACAGCTGAAGCTGATAAAACCATTAAAGTATACAGA
 GAGGATGACACAGCCACAGAAGAACTCATCCAGTCAGCTGGAAACCAGAAATTATCAAGAGAAAGAGAT
 TT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG210603 representing NM_002669
 Red=Cloning site Green=Tags(s)

MVEEVQKHSVHTLVFRSLKRTHDMFVADNGKPVPLDEESHKRKMAIKLRNEYGPVLMPTSKENLKEKGP
 QNATDSYVHKQYPANQQQEVEYFVAGTHPYPPGPGVALTADTKIQRMPSESAAQSLAVALPLQTKADANR
 TAPSGSEYRHPGASDRPQPTAMNSIVMETGNTKNSALMAKKAPTMPKPQWHPWKLRYRVISGHLGWVRCI
 AVEPGNQWFVTGSADRTIKIWLASGKLKLSLTGHISTVRGVIIVSTRSPYLFSCGEDKQVKCWDLEYNKV
 IRHYHGLSAVYGLDLHPTIDVLVTCSDSTARIVDVRTKASVHTLSGHTNAVATVRCQAAEQIITGSH
 DTTIRLWDLVAGKTRVTLTNHKSVRVVLHPRHYTFASGSPDNKQWKFDPGFSIQNLSGHNAIINTLT
 VNSDGLVLSGADNGTMHLWDWRTGYNFQRVHAAVQPGSLDSESGIFACAFDQSESRLLTAEADTKIKVYR
 EDDTATEETHPVSWKPEIIRKRF

TRTRPLE - GFP Tag - V

Restriction Sites:

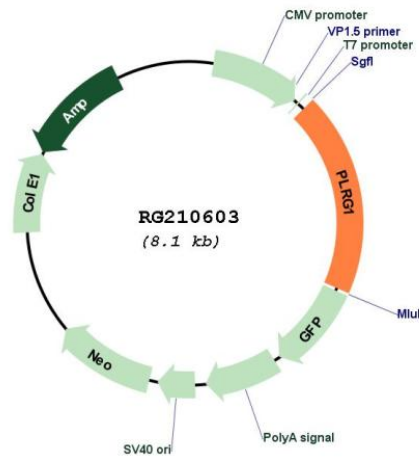
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN:	NM_002669
ORF Size:	1542 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).
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_002669.4
RefSeq Size:	3374 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]