

Product datasheet for **SC324796**

PRRG1 (NM_001142395) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PRRG1 (NM_001142395) Human Untagged Clone
Tag:	Tag Free
Symbol:	PRRG1
Synonyms:	PRGP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC324796 representing NM_001142395. Blue=Insert sequence Red=Cloning site Green=Tag(s)

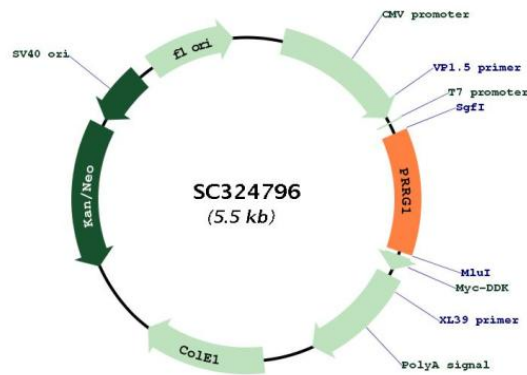
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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGGGAGGGTTTTCTCACGGGAGAAAAAGCCAATTCATATTTAAACGCTACCCAAGAGCTAATGGG
TTTTTTGAAGAAATAAGACAGGGCAACATTGAGCGTGAGTGCAAAGAAGAATTCTGTACATTTGAAGAA
GCAAGAGAAGCTTTTAAAAATAAGAAAACTAAGGAGTTTTGGAGCACCTACACAAAAGCGCAACAA
GGGGAGAGTAACCGAGGAAGTACTGGTTTCAGTTTTACCTTACCTTTCCGTTAATCTTTGGCCTCTTC
ATTATCCTCCTTGTCATTTTCTAATCTGGAGATGCTTCCTAAGAAACAAAACCTCGTAGACAGACAGTG
ACTGAAGGCCACATTCTTTCCCTCAGCACCTTAATATTATCACCCACCCCCACCAGATGAAGTG
TTTGACAGCAGTGGATTGTCTCCAGGCTTTCTGGGATATGTAGTTGGGCGCTCAGATTCCGTCTCTACT
CGCCTGTCCAATTGTGATCCCCGCCAACCTATGAGGAAGCCACTGGCCAAGTGAACCTGCAGAGGAGT
GAAACAGAACCTCATTTAGACCCACCCAGAGTATGAGGACATAGTCAACTCCAACCTCAGCCAGTGCC
ATTCCTATGGTGCCTGTGGTCACCACCATCAAATGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:



ACCN: NM_001142395

Insert Size: 657 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).

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_001142395.1](#)

RefSeq Size: 4508 bp

RefSeq ORF: 657 bp

Locus ID: 5638

UniProt ID: [O14668](#)

Cytogenetics: Xp21.1

Protein Families: Transmembrane

MW: 24.9 kDa

Gene Summary: This gene encodes a vitamin K-dependent, gamma-carboxyglutamic acid (Gla)-containing, single-pass transmembrane protein. This protein contains a Gla domain at the N-terminus, preceded by a propeptide sequence required for post-translational gamma-carboxylation of specific glutamic acid residues by a vitamin K-dependent gamma-carboxylase. The C-terminus is proline-rich containing PPXY and PXXP motifs found in a variety of signaling and cytoskeletal proteins. This gene is highly expressed in the spinal cord. Several alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Mar 2010]
Transcript Variant: This variant (2) is missing a 5' non-coding exon compared to variant 1. Variants 1-4 encode the same isoform (1).