

Product datasheet for **SC100379**

PACRG (NM_152410) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PACRG (NM_152410) Human Untagged Clone
Tag:	Tag Free
Symbol:	PACRG
Synonyms:	GLUP; HAK005771; PACRG2.1; PARK2CRG
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_152410, the custom clone sequence may differ by one or more nucleotides

```
ATGGTGGCAGAAAAAGAGACCCTGAGCTTAAACAAATGCCAGACAAGATGCCGAAGAGGACCAAGCTGC
TGGCACAAACAGCCGCTCCCGGTGCACCAGCCTCACTCTCTGGTTTCTGAGGGTTTCACAGTCAAAGCCAT
GATGAAAACTCAGTCGTGAGAGGCCCTCCAGCTGCAGGGGCATTTAAAGAAAGACCAACCAAGCCACACA
GCATTTGAAAAATTCTATGAGCGAGGTGACTTCCCAATTGCCCTTGAGCATGATTCGAAAGGAAACAAAA
TCGCCTGGAAGGTAGAAATTGAGAAGCTGGATTACCATCATTATCTGCCTCTGTTTTTGTATGGCCTTTG
TAAAATGACATTTCCCTATGAGTTTTTTGCTCGGCAAGGAATCCACGACATGCTGGAACACGGTGGGAAC
AAGATCCTACCTGTCCTCCACAGCTCATTATCCCGATAAAAAATGCCTTGAACCTCCGAAACCGACAGG
TCATCTGTGCTCAAGTCCCTCCAGCATCTGGTTGTGTGCTGAGATGGTGGGCAAGGCCTTGGT
GCCTTATTACCGTCAAATCCTCCCTGTCCTGAACATCTTTAAGAATATGAATGGGTCTTACTCTTTGCC
AGGCTGGAGTGCAGTGGCGCATCATGGCTCGTTGCAACCTCGACCACCTGGGCTCAAGTGATCCTCCCA
CCTCAGCCTCTCAAGTAGCTGAGATTATAGTGAACCTCCGAGACGGCATTGACTACAGCCAGCAGAAGAG
GGAGAACATTGGGGACTTGATCCAGGAGACTGGAGGCCTTCGAGCGCTACGGAGGAGAAAAATGCCTTT
ATCAACATTAAGTACGTGGTCCCAACCTACGAGTCTTGCTTAACTAA
```



[View online »](#)

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_152410 unedited
 ACTCGGCACGNAGGCCTTGGTTGCAGCCTCTAGCCAAGGTCTGCCCTCTCCCGCCCCG
 CCCCTAGGGTCCAGCTCCCTTACCTAGGAGCTGCCAAACATCTGGATCAACCTGGGCAC
 TACGAGGGTTGAATTTCTACCATTATCGCGCCTTTTGATATTTTTTCCAGACCTCTG
 CTCACATCCGTAAGCCCACTGATTCTTTACTACACTTTTTATGAGAACAAGACATTTT
 CTAGGAAGATGGTGGCAGAAAAAGACCCTGAGCTTAAACAAATGCCAGACAAGATGC
 CGAAGAGGACCAAGCTGCTGGCACAACAGCCGCTCCCGGTGCACCAGCCTCACTCTCTGG
 TTTCTGAGGGTTTACAGTCAAAGCCATGATGAAAACTCAGTCGTGAGAGGCCCTCCAG
 CTGCAGGGGCATTTAAAGAAAGACCAACCAAGCCACAGCATTTTCGAAAATTTCTATGAGC
 GAGGTGACTTCCAATTGCCCTTGAAGCATGATTCGAAAGGAAACAAAATCGCCTGGAAGG
 TAGAAATTGAGAAGCTGGATTACCATCATTATCTGCCTCTGTTTTTGTGGCTTTGTG
 AAATGACATTTCCCTATGAGTTTTTGTCTGGCAAGGAATCCACGACATGCTGGAACACG
 GTGGGAACAAGATCCTACCTGTCCTTCCACAGCTCATTATCCCGATNAAAATGCCTTGAA
 CCTCCGAAACCGACAGGTATCTGTGCTACTCTCAAGGCTCCTCCAGCATCTGGNTTGTG
 CAGCTGAGATGGTGGCAAGGCCTTNGTGCCTTATTACCGTCAAATCCCTCTGTCCTG
 ACATCTTTAAGATATGAATGTGAACTCCNGAGACNGCATTGACTACAGCCAGCAGAAGAG
 G

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_152410 unedited
 NNNAACTACTGTGNACCGCGCCCGCTTCTAGNATCGGTTTTTTTTTTTTTTTTTTTGG
 CATATGAAAATTATAGTTTATTGTCTATACAACTGAAGGTTTAACTCGGACTCCTGCTTC
 TGTCGGAGCTGTATAAAGAAGCAATTCTTCTTAGAACAATAAGCACAGTACACTATT
 GTAATCTAAGAAACAGACACTATTTATGTATTGAAAGCCTTGCTCTCAATAGGGCTAAC
 AGTCCAATGGCCATAAGCCACTATTTAGCAGCTGTAGAAAAGAAAGCTGTGGAAGTCA
 CAAGGAATGAGATGCTAAAAGCAACAGAGACAGATGATCCAACACCAACGGGAGTTTC
 AAGTCCCAGCTGCTGCCACTGTTAGTTTAGCAAGCAAGACTCGTAGGTTGGGACCACGTA
 CTTAATGTTGATAAAGGCATTTTCTCCTCCGTAGCGCTCGAAGGCCTCCAGTGTCTCCTG
 GATCAAGTCCCAATGTTCTCCTCTTCTGCTGGCTGTAGTCAATGCCGTCTCCGGAGTT
 CACATTCATATTCTTAAAGATGTTTCAGGACAGGGAGGATTTGACGGTAATAAGGCACCAA
 GGCTTGGCCACCATCTCAGCTGACACAACCAGATGCTGGAGGACCTTGAGAGTGACACA
 GATGACCTGTGCGTTTTCGGAGTTCAAGGCATTTTTTATCGGGATAATGAGCTGTGGAAG
 GACAGGTAGGATCTTGTCCACCGTGTCCAGCATGTCGTGGATTCTTGCCGAGCAAAA
 AACTCATAGGGAATGTCAATTTCAAAGCCCTCAAAAAACAGAGCGGAAATGATGTTATC
 CAGCTTCTCATTCTACTTCCAGGCGATTTTGTTCCTTCAATATGCTCAAGGCATA

Restriction Sites:

NotI-NotI

ACCN:

NM_152410

Insert Size:

1400 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_152410.1](#), [NP_689623.1](#)

RefSeq Size: 1619 bp

RefSeq ORF: 891 bp

Locus ID: 135138

UniProt ID: [Q96M98](#)

Cytogenetics: 6q26

Protein Families: Druggable Genome

Gene Summary: This gene encodes a protein that is conserved across metazoans. In vertebrates, this gene is linked in a head-to-head arrangement with the adjacent parkin gene, which is associated with autosomal recessive juvenile Parkinson's disease. These genes are co-regulated in various tissues and they share a bi-directional promoter. Both genes are associated with susceptibility to leprosy. The parkin co-regulated gene protein forms a large molecular complex with chaperones, including heat shock proteins 70 and 90, and chaperonin components. This protein is also a component of Lewy bodies in Parkinson's disease patients, and it suppresses unfolded Pael receptor-induced neuronal cell death. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
 Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (1).