OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC211664

PACRG (NM_152410) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PACRG (NM_152410) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PACRG
Synonyms:	GLUP; HAK005771; PACRG2.1; PARK2CRG
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC211664 representing NM_152410
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTGGCAGAAAAAGAGACCCTGAGCTTAAACAAATGCCCAGACAAGATGCCGAAGAGGACCAAGCTGC
TGGCACAACAGCCGCTCCCGGTGCACCAGCCTCACTCTCTGGTTTCTGAGGGTTTCACAGTCAAAGCCAT
GATGAAAAACTCAGTCGTGAGAGGCCCTCCAGCTGCAGGGGCATTTAAAGAAAGACCAACCAAGCCCACA
GCATTTCGAAAATTCTATGAGCGAGGTGACTTCCCAATTGCCCTTGAGCATGATTCGAAAGGAAACAGAA
TCGCCTGGAAGGTAGAAATTGAGAAGCTGGATTACCATCATTATCTGCCTCTGTTTTTTGATGGGCTTTG
TGAAATGACATTTCCCTATGAGTTTTTTGCTCGGCAAGGAATCCACGACATGCTGGAACACGGTGGGAAC
AAGATCCTACCTGTCCTTCCACAGCTCATTATCCCGATAAAAAATGCCTTGAACCTCCGAAACCGACAGG
TCATCTGTGTCACTCTCAAGGTCCTCCAGCATCTGGTTGTGTCAGCTGAGATGGTGGGCAAGGCCTTGGT
GCCTTATTACCGTCAAATCCTCCCTGTCCTGAACATCTTTAAGAATATGAATGGGTCTTACTCTTTGCCC
AGGCTGGAGTGCAGTGGCGCGATCATGGCTCGTTGCAACCTCGACCACCTGGGCTCAAGTGATCCTCCCA
CCTCAGCCTCTCAAGTAGCTGAGATTATAGTGAACTCCGGAGACGGCATTGACTACAGCCAGCAGAAGAG
GGAGAACATTGGGGACTTGATCCAGGAGACACTGGAGGCCTTCGAGCGCTACGGAGGAGAAAATGCCTTT
ATCAACATTAAGTACGTGGTCCCAACCTACGAGTCTTGCTTGCTAAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

View online »

Protein Sequence:

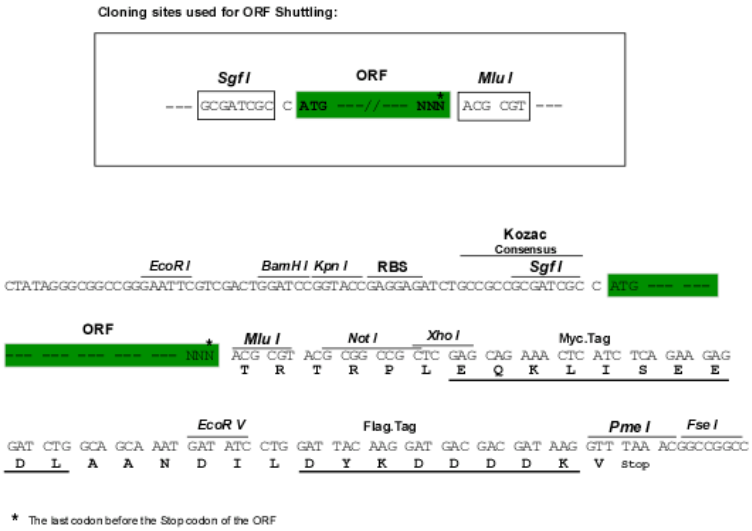
>RC211664 representing NM_152410
Red=Cloning site Green=Tags(s)

MVAEKETLSLNKCPDKMPKRTKLLAQQPLPVHQPHSLVSEGFTVKAMMKNSVVRGPPAAGAFKERPTKPT
AFRKFYERGDFPIALEHDSKGNRIAWKVEIEKLDYHHYLPLFFDGLCEMTFPYEFFARQGIHDMLEHGGN
KILPVLPQLIIPIKNALNLRNRQVICVTLKVLQHLVVSAEMVGKALVPYYRQILPVLNIFKNMNGSYSLP
RLECSGAIMARCNLDHLGSSDPPTSASQVAEIIVNSGDGIDYSQQKRENIGDLIQETLEAFERYGGENAF
INIKYVVPTYESCLLN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_152410

ORF Size: 888 bp

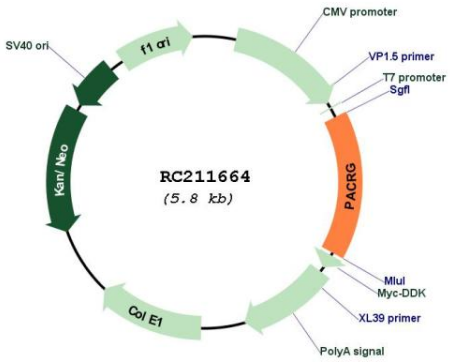
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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

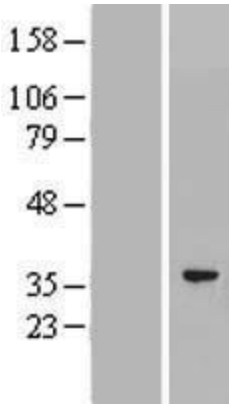
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	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
MW:	33.2 kDa
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]

Product images:



Circular map for RC211664



Western blot validation of overexpression lysate (Cat# [LY407578]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211664 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).