

## Product datasheet for **RG211664**

### **PACRG (NM\_152410) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PACRG (NM_152410) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PACRG
Synonyms:	GLUP; HAK005771; PACRG2.1; PARK2CRG
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG211664 representing NM_152410 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTGGCAGAAAAGAGACCCTGAGCTTAAACAAATGCCAGACAAGATGCCGAAGAGGACCAAGCTGC  
TGGCACAACAGCCGCTCCCGGTGCACCAGCCTCACTCTCTGGTTTCTGAGGGTTTCACAGTCAAAGCCAT  
GATGAAAACTCAGTCGTGAGAGGCCCTCCAGCTGCAGGGCATTAAAGAAAGACCAACCAAGCCACA  
GCATTTTGAAAAATCTATGAGCGAGGTGACTTCCAATTGCCCTTGAGCATGATTCGAAAGGAAACAGAA  
TCGCCTGGAAGGTAGAAATTGAGAAGCTGGATTACCATCATTATCTGCCTCTGTTTTTGTATGGGCTTTG  
TGAAATGACATTTCCCTATGAGTTTTTTGCTCGGCAAGGAATCCACGACATGCTGGAACACGGTGGGAAC  
AAGATCCTACCTGTCTTCCACAGCTCATTATCCCGATAAAAAATGCCTTGAACCTCCGAAACCGACAGG  
TCATCTGTGCACTCTCAAGGTCTCCAGCATCTGGTTGTGTCAGCTGAGATGGTGGGCAAGGCCTTGGT  
GCCTTATTACCGTCAAATCCTCCTGTCTGAACATCTTAAAGAAATGAATGGGTCTTACTCTTTGCC  
AGGCTGGAGTGCAGTGGCGGATCATGGCTCGTTGCAACCTCGACCACCTGGGCTCAAGTATCCTCCCA  
CCTCAGCCTCTCAAGTAGCTGAGATTATAGTGAACCTCCGAGACGGCATTGACTACAGCCAGCAGAAGAG  
GGAGAACATTGGGACTTGATCCAGGAGACTGGAGGCCTTCGAGCGCTACGGAGGAGAAAATGCCTTT  
ATCAACATTAAGTACGTGGTCCCAACCTACGAGTCTTGCTTAAAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG211664 representing NM\_152410  
Red=Cloning site Green=Tags(s)

MVAEKETLSLNKCPDKMPKRTKLLAQQLPVLVHQPVSLVSEGFVVKAMMKNSVVRGPPAAGAFKERPTKPT  
 AFRKFYERGDFFIALEHDSKGNRIAWKVEIEKLDYHHYLPFFDGLCEMTFPYEFFARQGIHDMLEHGGN  
 KILPVLPLQLIPIKINALNLRNRQVICVTLKVLQHLVVSAMVVKALVPYYRQILPVLNIFKNMNGSYS  
 LPLRLECSGAIMARCNLDHLGSSDPPTSASQVAEIIVNSGDGIDYSQKRENI GDLIQETLEAFERYGGENAF  
 INIKYVVPTYESCLLN

TRTRPLE - GFP Tag - V

**Restriction Sites:**

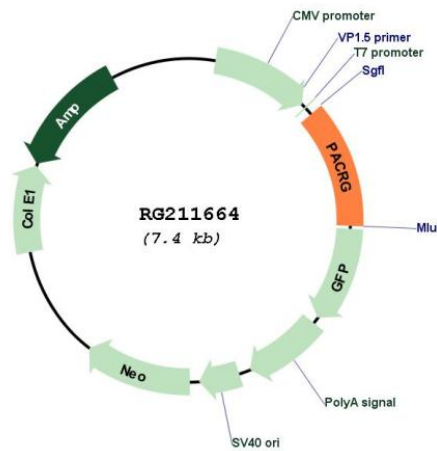
SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_152410

**ORF Size:** 888 bp

<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
<b>Components:</b>	<p>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).</p>
<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>	<p><a href="#">NM_152410.1</a>, <a href="#">NP_689623.1</a></p>
<b>RefSeq Size:</b>	<p>1619 bp</p>
<b>RefSeq ORF:</b>	<p>891 bp</p>
<b>Locus ID:</b>	<p>135138</p>
<b>UniProt ID:</b>	<p><a href="#">Q96M98</a></p>
<b>Cytogenetics:</b>	<p>6q26</p>
<b>Protein Families:</b>	<p>Druggable Genome</p>
<b>Gene Summary:</b>	<p>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]</p>