

Product datasheet for **RG222240**

PACRG (NM_001080378) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PACRG (NM_001080378) 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: >RG222240 representing NM_001080378
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGGCAGAAAAGAGACCCTGAGCTTAAACAAATGCCAGACAAGATGCCGAAGAGGACCAAGCTGC
TGGCACAACAGCCGCTCCCGGTGCACCAGCCTCACTCTGGTTTCTGAGGGTTTCACAGTCAAAGCCAT
GATGAAAACCTCAGTCGTGAGAGGCCCTCCAGCTGCAGGGCATTAAAGAAAGACCAACCAAGCCACA
GCATTTTGAAAATCTATGAGCGAGGTGACTTCCCAATTGCCCTTGAGCATGATTCGAAAGGAAACAAA
TCGCCTGGAAGGTAGAAATTGAGAAGCTGGATTACCATCATTATCTGCCTCTGTTTTTGTATGGGCTTTG
TGAAATGACATTTCCCTATGAGTTTTTGTCTCGGCAAGGAATCCACGACATGCTGGAACACGGTGGGAAC
AAGATCCTACCTGTCTTCCACAGCTCATTATCCCGATAAAAAATGCCTTGAACCTCCGAAACCGACAGG
TCATCTGTGCACTCTCAAGGTCTCCAGCATCTGGTTGTGTCAGCTGAGATGGTGGGCAAGGCCTTGGT
GCCTTATTACCGTCAAATCCTCCCTGTCTGAACATCTTTAAGAATATGAATGTGAACCTCCGGAGACGGC
ATTGACTACAGCCAGCAGAAGAGGGAGAACATTGGGGACTTGATCCAGGAGACACTGGAGGCCTTCGAGC
GCTACGGAGGAGAAAATGCCTTTATCAACATTAAGTACGTGGTCCCAACCTACGAGTCTTGCTTGCTAA
C

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG222240 representing NM_001080378
 Red=Cloning site Green=Tags(s)

MVAEKETLSLNKCPDKMPKRTKLLAQQLPVPVHQPHSLVSEGFYVKAMMKNSVVRGPPAAGAFKERPTKPT
 AFRKFYERGFPIALEHDSKGNKIAWKVEIEKLDYHHYLPFFDGLCEMTFPYEFFARQGIHDMLEHGGN
 KILPVLPLQLIIPKINALNLRNRQVICVTLKVLQHLVSAEMVGKALVPYYRQILPVLNIFKMNMVNSGDG
 IDYSQQKRENIGDLIQETLEAFERYGGENAFINIKYVVPTYESCLLN

TRTRPLE – GFP Tag – V

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_001080378

ORF Size: 771 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:

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_001080378.1](#), [NP_001073847.1](#)

RefSeq Size: 1585 bp

RefSeq ORF: 774 bp

Locus ID: 135138

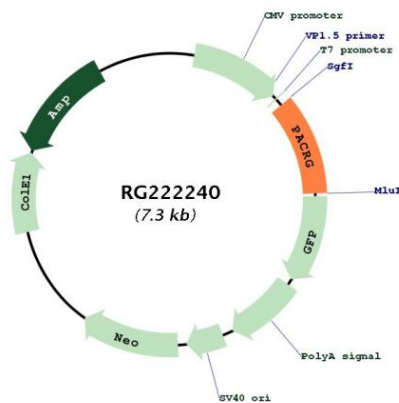
UniProt ID: [Q96M98](#)

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]

Product images:



Circular map for RG222240