

Product datasheet for **RG221147**

Parkin (PARK2) (NM_004562) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Parkin (PARK2) (NM_004562) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Parkin
Synonyms:	AR-JP; LPRS2; PARK2; PDJ
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG221147 representing NM_004562
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATAGTGTGGTTCAGGTTCAACTCCAGCCATGGTTTCCAGTGGAGGTCGATTCTGACACCAGCATCT
 TCCAGCTCAAGGAGGTGGTTGCTAAGCGACAGGGGTTCCGGCTGACCAGTTGCGTGTGATTTTCGAGG
 GAAGGAGCTGAGGAATGACTGGACTGTGACAGAATTGTGACCTGGATCAGCAGAGCATTGTTACATTGTG
 CAGAGACCGTGGAGAAAAGGTCAAGAAATGAATGCAACTGGAGGCGACGACCCAGAAAACCGCGGGAG
 GCTGTGAGCGGGAGCCCCAGAGCTTGACTCGGGTGGACCTCAGCAGCTCAGTCTCCAGGAGACTCTGT
 GGGGCTGGCTGTCATTCTGCACACTGACAGCAGGAAGGACTCACCACCAGCTGGAAGTCCAGCAGGTAGA
 TCAATCTACAACAGCTTTTATGTGATTGCAAAGGCCCTGTCAAAGAGTGCAGCCGGGAAAACCTCAGGG
 TACAGTGCAGCACCTGCAGGCAGGCAACGCTCACCTTGACCCAGGGTCCATCTTGCTGGGATGATGTTTT
 AATTCCAAACCGGATGAGTGGTGAATGCCAATCCCACACTGCCCTGGGACTAGTGCAGAATTTTTCTTT
 AAATGTGGAGCACACCCACCTCTGACAAGGAAACACCAGTAGCTTTGCACCTGATCGCAACAAATAGTC
 GGAACATCACTTGCATTACGTGCACAGACGTCAGGAGCCCGTCCCTGGTTTTCCAGTGCACCTCCCGCCA
 CGTGATTTGCTTAGACTGTTTCCACTTATACTGTGTGACAAGACTCAATGATCGGCAGTTTGTTCACGAC
 CCTCAACTGGCTACTCCCTGCCTGTGTGGCTGGCTGTCCCAACTCCTTGATTAAGAGCTCCATCACT
 TCAGGATTTCTGGGAGAAGAGCAGTACAACCGGTACCAGCAGTATGGTGCAGAGGAGTGTGCTCCTGCAGAT
 GGGGGCGTGTTATGCCCCCGCCTGGCTGTGGAGCGGGCTGCTGCCGGAGCCTGACCAGAGGAAAATC
 ACCTGCGAAGGGGCAATGGCCTGGGCTGTGGGTTTGCCTTCTGCCGGGAATGTAAGAAGCGTACCATG
 AAGGGGAGTGCAGTGCCGTATTTGAAGCCTCAGGAACAACACTCAGGCCTACAGAGTCGATGAAAGAGC
 CGCCGAGCAGGCTCGTTGGGAAGCAGCCTCCAAAGAAACCATCAAGAAAACCAAGCCCTGTCCCGC
 TGCCATGTACCAGTGAAAAAATGGAGGCTGCATGCACATGAAGTGTCCGCAGCCCCAGTGCAGGCTCG
 AGTGGTGTGGAAGTGTGGCTGCGAGTGAACCGCTCTGCATGGGGACCACCTGGTTTCAGCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG221147 representing NM_004562
 Red=Cloning site Green=Tags(s)

MIVFVRFNSSHGFPVEVSDTSIFQLKEVVAKRQGV PADQLRVIFAGKELRNDWTVQNCDL DQQSIVHIV
 QRPWRKGQEMNATGGDDPRNAAGGCEREPQSLTRVDLSSSVLPGDSVGLAVILHTDSRKDSPPAGSPAGR
 SIYNSFYVYCKGPCQRVQPGKLRVQCSTCRQATLTLTQGPSCWDDVLI PNRMSEGECQSPHCPGTSAEFF
 KCGAHP TSDKETPVALHLIATNSRNITCITCTDVRSPVLV FQCNSRHVICLDCFHLYCVTRLNDRQFVHD
 PQLGYS LPCVAGCPNSLIKELHHFRILGEEQYNYRYQYGAEECVLQMGVLCPRPGCGAGLLPEPDQRKV
 TCEGGN LGCGFAFCRECKEAYHEGEC SAVFEASGTTTQAYRVD ERAAEQARWEAASKETIKKTTKPCPR
 CHVPVEKNGGCMHMKCPQPQRLEWCWNCGEWNRVCMGDHWF DV

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_004562

ORF Size: 1395 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_004562.1](#), [NP_004553.1](#)

RefSeq Size: 2960 bp

RefSeq ORF: 1398 bp

Locus ID: 5071

UniProt ID: [O60260](#)

Cytogenetics: 6q26

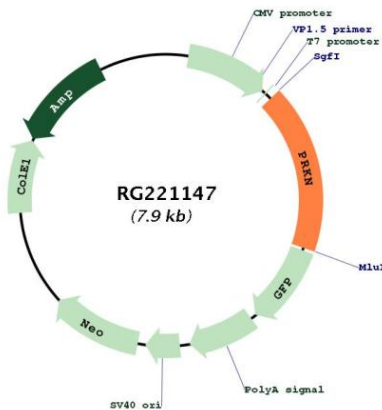
Protein Pathways:

Parkinson's disease, Ubiquitin mediated proteolysis

Gene Summary:

The precise function of this gene is unknown; however, the encoded protein is a component of a multiprotein E3 ubiquitin ligase complex that mediates the targeting of substrate proteins for proteasomal degradation. Mutations in this gene are known to cause Parkinson disease and autosomal recessive juvenile Parkinson disease. Alternative splicing of this gene produces multiple transcript variants encoding distinct isoforms. Additional splice variants of this gene have been described but currently lack transcript support. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG221147