

## Product datasheet for **RG222635**

### Parkin (PARK2) (NM\_013987) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Parkin (PARK2) (NM_013987) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PRKN
Synonyms:	AR-JP; LPRS2; PARK2; PDJ
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG222635 representing NM_013987 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATAGTGTGGTTCAGGTTCAACTCCAGCCATGGTTTCCAGTGGAGGTCGATTCTGACACCAGCATCT  
TCCAGCTCAAGGAGGTGGTTGCTAAGCGACAGGGGTTCCGGCTGACCAGTTGCGTGTGATTTTCGAGG  
GAAGGAGCTGAGGAATGACTGGACTGTGCAGAATTGTGACCTGGATCAGCAGAGCATTGTTACATTGTG  
CAGAGACCGTGGAGAAAAGGTCAAGAAATGAATGCAACTGGAGGGCAGCACCCAGAAAACCGCGGGAG  
GCTGTGAGCGGGAGCCCCAGAGCTTGACTCGGGTGGACCTCAGCAGCTCAGTCTCCAGGAGACTCTGT  
GGGCTGGCTGTCACTTCTGCACACTGACAGCAGGAAGGACTCACCCAGCTGGAAGTCCAGCAGGTAGA  
TCAATCTACAACAGCTTTTATGTGTATTGCAAAGGCCCTGTCAAAGAGTGCAGCCGGGAAAACCTCAGGG  
TACAGTGCAGCACCTGCAGGCAGGCAACGCTCACCTTGACCCAGGAATTTTCTTTAAATGTGGAGCACA  
CCCCACCTCTGACAAGGAAACACCAGTAGCTTTGCACCTGATCGCAACAAATAGTCGGAACATCACTTGC  
ATTACGTGCACAGACGTCAGGAGCCCCGCTCGTGGTTTTCCAGTGCACCTCCCGCCACGTGATTTGCTTAG  
ACTGTTTCCACTTATACTGTGTGACAAGACTCAATGATCGGCAGTTTGTTCACGACCCTCACTTGGCTA  
CTCCCTGCCTTGTGTGGCTGGCTGTCCCAACTCCTTGATTAAGAGCTCCATCACTCAGGATTCTGGGA  
GAAGACAGTACAACCGGTACCAGCAGTATGGTGCAGAGGAGTGTCTCCTGCAGATGGGGGCGTGTAT  
GCCCCCGCCTGGCTGTGGAGCGGGCTGCTGCCGGAGCCTGACCAGAGGAAAGTCACTGCGAAGGGGG  
CAATGGCCTGGGCTGTGGTTTTGCCTTCTGCCGGAATGTAAGAAGCGTACCATGAAGGGGAGTGCAGT  
GCCGTATTTGAAGCCTCAGGAACAACACTCAGGCCTACAGAGTCGATGAAAGAGCCGCCGAGCAGGCTC  
GTTGGGAAGCAGCCTCAAAGAAACCAACAAGAAAACCAAGCCCTGTCCCGCTGCCATGTACCAGT  
GGAAAAAATGGAGGCTGCATGCACATGAAGTGTCCGAGCCCCAGTGCAGGCTCGAGTGGTGTGGAAC  
TGTGGCTGCGAGTGAACCGCTCTGCATGGGGGACCCTGGTTTCGACGTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG222635 representing NM\_013987  
 Red=Cloning site Green=Tags(s)

MIVFVRFNSSHGFPVEVSDTSIFQLKEVVAKRQGV PADQLRVIFAGKELRNDWTVQNCDDLQQSIVHIV  
 QRPWRKQEMNATGGDDPRNAAGGCEREPQSLTRVDLSSSVLPGDSVGLAVILHTDSRKDSPPAGSPAGR  
 SIYNSFYVYCKGPCQRVQPGKLRVQCSTCRQATLTLTQEFFFKCGAHP TSDKETPVALHLIATNSRNITC  
 ITCTDVRSPVLV FQCNSRHVICLDCFHLYCVTRLNDRQFVHDPQLGYS LPCVAGCPNSLIKELHHFRILG  
 EEQYNRYQQYGAEECVLQMGVLCPRPGCGAGLLPEPDQRKVTCEGGNGLGCGFAFCRECKEAYHEGEC S  
 AVFEASGTTTQAYRVD ERAAEQARWEAASKETIKKTTKPCPRCHVPVEKNGGCMHMKCPQPQCRLEWCW N  
 CGCEWNRVCMGDHWF DV

TRTRPLE - GFP Tag - V

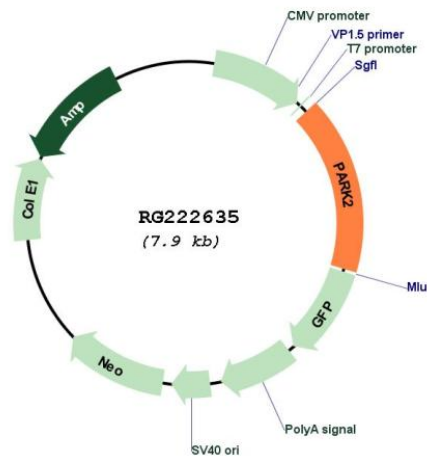
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_013987

<b>ORF Size:</b>	1311 bp
<b>OTI Disclaimer:</b>	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>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<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>	<a href="#">NM_013987.1</a> , <a href="#">NP_054642.1</a>
<b>RefSeq Size:</b>	2876 bp
<b>RefSeq ORF:</b>	1314 bp
<b>Locus ID:</b>	5071
<b>UniProt ID:</b>	<a href="#">O60260</a>
<b>Cytogenetics:</b>	6q26
<b>Protein Pathways:</b>	Parkinson's disease, Ubiquitin mediated proteolysis
<b>Gene Summary:</b>	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]