

Product datasheet for **RC222635**

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:	Myc-DDK
Symbol:	Parkin
Synonyms:	AR-JP; LPRS2; PARK2; PDJ
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC222635 representing NM_013987
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATAGTGTGGTTCAGGTTCAACTCCAGCCATGGTTCCAGTGGAGGTCGATTCTGACACCAGCATCT
 TCCAGCTCAAGGAGGTGGTTGCTAAGCGACAGGGGTTCCGGCTGACCAGTTGCGTGTGATTTTCGAGG
 GAAGGAGCTGAGGAATGACTGGACTGTGAGAATTGTGACCTGGATCAGCAGAGCATTGTTACATTGTG
 CAGAGACCGTGGAGAAAAGGTCAAGAAATGAATGCAACTGGAGGCGACGACCCAGAAAACCGCGGGAG
 GCTGTGAGCGGGAGCCCCAGAGCTTGACTCGGGTGGACCTCAGCAGCTCAGTCTCCAGGAGACTCTGT
 GGGGCTGGCTGTCTTCTGCACACTGACAGCAGGAAGGACTCACCACCAGCTGGAAGTCCAGCAGGTAGA
 TCAATCTACAACAGCTTTTATGTGATTGCAAAGGCCCTGTCAAAGAGTGCAGCCGGGAAAACCTCAGGG
 TACAGTGCAGCACCTGCAGGCAGGCAACGCTCACCTTGACCCAGGAATTTTTCTTAAATGTGGAGACA
 CCCCACCTCTGACAAGGAAACATCAGTAGCTTTGCACCTGATCGCAACAAATAGTCGGAACATCACTTGC
 ATTACGTGCACAGACGTACAGGAGCCCCGCTCTGGTTTTCCAGTGCAACTCCCGCCACGTGATTTGCTTAG
 ACTGTTTCCACTTATACTGTGTGACAAGACTCAATGATCGGCAGTTTGTTCACGACCCCTCAACTGGCTA
 CTCCTGCCTTGTGTGGCTGGCTGTCCAACTCCTTGATTAAGAGCTCCATCACTTCAGGATTCTGGGA
 GAAGAGCAGTACAACCGTACCAGCAGTATGGTGCAGAGGAGTGTCTCTGCAGATGGGGGGCGTGTAT
 GCCCCCGCCTGGCTGTGGAGCGGGGCTGTGCCGGAGCCTGACCAGAGGAAAGTCACTGCGAAGGGGG
 CAATGGCTGGCTGTGGGTTTGCCTTCTGCCGGGAATGTAAGAAGCGTACCATGAAGGGGAGTGCAGT
 GCCGATTTGAAGCCTCAGGAACAACACTCAGGCCTACAGAGTCGATGAAAGAGCCCGCCGAGCAGGCTC
 GTTGGGAAGCAGCCTCCAAAGAAACCATCAAGAAAACCAACCAAGCCCTGTCCCGCTGCCATGTACCAGT
 GGAAAAAATGGAGGCTGCATGCACATGAAGTGTCCGCAGCCCAAGTGCAGGCTCGAGTGGTGTGGAAC
 TGTGGCTGCGAGTGAACCGCTCTGCATGGGGGACCACTGGTTCGACGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC222635 representing NM_013987
 Red=Cloning site Green=Tags(s)

MIVFVRFNSSHGFPVEVSDTSIFQLKEVVAKRQGV PADQLRVIFAGKELRNDWTVQNCDL DQQSIVHIV
 QRPWRKGQEMNATGGDDPRNAAGGCEREPQSLTRVDLSSSVLPGDSVGLAVILHTDSRKDSPPAGSPAGR
 SIYNSFYVYCKGPCQRVQPGKLRVQCSTCRQATLTLTQEFFFKCGAHPTSDKETSVALHLIATNSRNITC
 ITCTDVRSPVLVFCNSRHVICLDCFHL YCVTRLNDRQFVHDPQLGYSLPCVAGCPNSLIKELHHFRILG
 EEQYNRYQQYGAEECVLQMGVLCPRPGCGAGLLPEPDQRKVTCEGGNGLGCGFAFCRECKEAYHEGECS
 AVFEASGTTTQAYRVDERAAEQARWEAASKETIKKTTKPCRCHVPVEKNGGCMHMKCPQPQRLEWCWN
 CGCEWNRVCMGDHWFVDV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8059_h05.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_013987

ORF Size: 1311 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_013987.3](#)

RefSeq Size: 2876 bp

RefSeq ORF: 1314 bp

Locus ID: 5071

UniProt ID: [O60260](#)

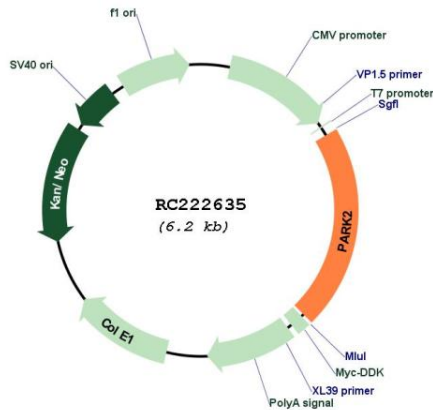
Cytogenetics: 6q26

Protein Pathways: Parkinson's disease, Ubiquitin mediated proteolysis

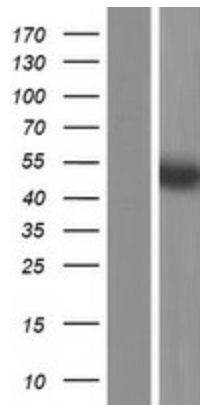
MW: 48.5 kDa

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 RC222635



Western blot validation of overexpression lysate (Cat# [LY415571]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222635 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).