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Product datasheet for RC216186

Parkin (PARK2) (NM_013988) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Parkin (PARK2) (NM_013988) 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)

ORF Nucleotide Sequence:

>RC216186 representing NM_013988
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATAGTGTTTGTCAGGTTCAACTCCAGCCATGGTTTCCCAGTGGAGGTCGATTCTGACACCAGCATCT
TCCAGCTCAAGGAGGTGGTTGCTAAGCGACAGGGGGTTCCGGCTGACCAGTTGCGTGTGATTTTCGCAGG
GAAGGAGCTGAGGAATGACTGGACTGTGCAGGAATTTTTCTTTAAATGTGGAGCACACCCCACCTCTGAC
AAGGAAACATCAGTAGCTTTGCACCTGATCGCAACAAATAGTCGGAACATCACTTGCATTACGTGCACAG
ACGTCAGGAGCCCCGTCCTGGTTTTCCAGTGCAACTCCCGCCACGTGATTTGCTTAGACTGTTTCCACTT
ATACTGTGTGACAAGACTCAATGATCGGCAGTTTGTTCACGACCCTCAACTTGGCTACTCCCTGCCTTGT
GTGGCTGGCTGTCCCAACTCCTTGATTAAAGAGCTCCATCACTTCAGGATTCTGGGAGAAGAGCAGTACA
ACCGGTACCAGCAGTATGGTGCAGAGGAGTGTGTCCTGCAGATGGGGGGCGTGTTATGCCCCCGCCCTGG
CTGTGGAGCGGGGCTGCTGCCGGAGCCTGACCAGAGGAAAGTCACCTGCGAAGGGGGCAATGGCCTGGGC
TGTGGGTTTGCCTTCTGCCGGGAATGTAAAGAAGCGTACCATGAAGGGGAGTGCAGTGCCGTATTTGAAG
CCTCAGGAACAACTACTCAGGCCTACAGAGTCGATGAAAGAGCCGCCGAGCAGGCTCGTTGGGAAGCAGC
CTCCAAAGAAACCATCAAGAAAACCACCAAGCCCTGTCCCCGCTGCCATGTACCAGTGGAAAAAAATGGA
GGCTGCATGCACATGAAGTGTCCGCAGCCCCAGTGCAGGCTCGAGTGGTGCTGGAACTGTGGCTGCGAGT
GGAACCGCGTCTGCATGGGGGACCACTGGTTCGACGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC216186 representing NM_013988
Red=Cloning site Green=Tags(s)

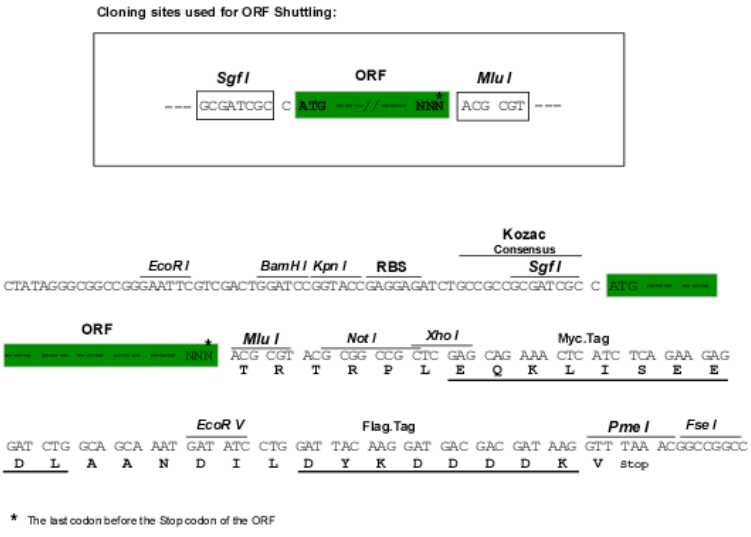
MIVFVRFNSSHGFPVEVDSDTSIFQLKEVVAKRQGVPADQLRVIFAGKELRNDWTVQEFFFKCGAHPTSD
KETSVALHLIATNSRNITCITCTDVRSPVLVFQCNSRHVICLDCFHLYCVTRLNDRQFVHDPQLGYSLPC
VAGCPNSLIKELHHFRILGEEQYNRYQQYGAEECVLQMGGVLCPRPGCGAGLLPEPDQRKVTCEGGNGLG
CGFAFCRECKEAYHEGECSAVFEASGTTTQAYRVDERAAEQARWEAASKETIKKTTKPCPRCHVPVEKNG
GCMHMKCPQPQCRLEWCWNCGCEWNRVCMGDHWFDV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2711_d01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_013988

ORF Size: 948 bp

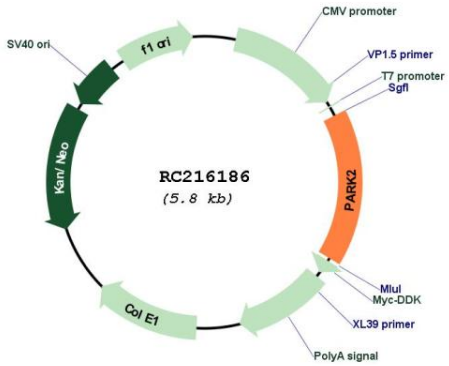
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

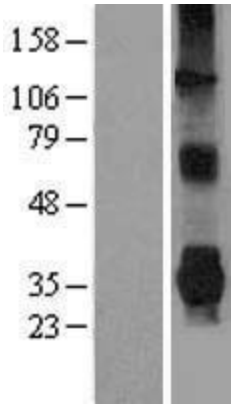
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_013988.3
RefSeq Size:	2513 bp
RefSeq ORF:	951 bp
Locus ID:	5071
UniProt ID:	O60260
Cytogenetics:	6q26
Domains:	UBQ, IBR
Protein Pathways:	Parkinson's disease, Ubiquitin mediated proteolysis
MW:	35.5 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 RC216186



Western blot validation of overexpression lysate (Cat# [LY415572]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC216186 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).