

Product datasheet for **RG216186**

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: | 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) |
| ORF Nucleotide Sequence: | >RG216186 representing NM_013988 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATAGTGTGGTTCAGGTTCAACTCCAGCCATGGTTTCCAGTGGAGGTCGATTCTGACACCAGCATCT
TCCAGCTCAAGGAGGTGGTTGCTAAGCGACAGGGGTTCCGGCTGACCAGTTGCGTGTGATTTTCGCAGG
GAAGGAGCTGAGGAATGACTGGACTGTGCAGGAATTTTCTTTAAATGTGGAGCACACCCACCTCTGAC
AAGGAAACACCAGTAGCTTTCACCTGATCGCAACAAATAGTCGGAACATCACTTGCATTACGTGCACAG
ACGTCAGGAGCCCGTCCTGGTTTCCAGTGCACCTCCCGCCACGTGATTTGCTTAGACTGTTTCCACTT
ATACTGTGTGACAAGACTCAATGATCGGCAGTTTGTTCACGACCCCTCAACTTGGCTACTCCCTGCCTTGT
GTGGCTGGCTGTCCCAACTCCTTGATTAAGAGCTCCATCACTTCAGGATTCTGGGAGAAGAGCAGTACA
ACCGGTACCAGCAGTATGGTGCAGAGGAGTGTGTCCTGCAGATGGGGGGCGTGTATGCCCCCGCCCTGG
CTGTGGAGCGGGCTGCTGCCGGAGCCTGACCAGAGGAAAGTCACCTGCGAAGGGGGCAATGGCCTGGGC
TGTGGGTTTGCCTTCTGCCGGAATGTAAGAAGCGTACCATGAAGGGGAGTGCAGTGCCGATTTTGAAG
CCTCAGGAACAATACTCAGGCCTACAGAGTCGATGAAAGAGCCCGCCGAGCAGGCTCGTTGGGAAGCAGC
CTCCAAAGAAACCATCAAGAAAACCAAGCCCTGTCCCGCTGCCATGTACCAGTGAAAAAATGGA
GGCTGCATGCACATGAAGTGTCCGACGCCCCAGTGCAGGCTCGAGTGGTGTGCTGGAAGTGTGGCTGCCGAGT
GGAACCGCTCTGCATGGGGACCACTGGTTCGACGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG216186 representing NM_013988
 Red=Cloning site Green=Tags(s)

MIVFVRFNSSHGFPVEVSDTSTIFQLKEVVAKRQGVLPADQLRVIFAGKELRNDWTVQEFFFKCGAHPSTSD
 KETPVALHLIATNSRNITCITCTDVRSPVLVFQCNSRHVICLDCFHLYCVTRLNDRQFVHDPQLGYSLPC
 VAGCPNSLIKELHHFRILGEEQYNRYQQYGAEECVLQMGVLCPRPGCAGLLPEPDQRKVTCEGGNGLG
 CGFAFCRECKEAYHEGECSAVFEASGTTTQAYRVDERRAAEQARWEAASKETIKKTTKPCPRCHVPVEKNG
 GCMHMKCPQPQCRLWCWNCGCEWNRVCMGDHWFVDV

TRTRPLE - GFP Tag - V

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.

RefSeq: [NM_013988.1](#), [NP_054643.1](#)

RefSeq Size: 2513 bp

RefSeq ORF: 951 bp

Locus ID: 5071

UniProt ID: [O60260](#)

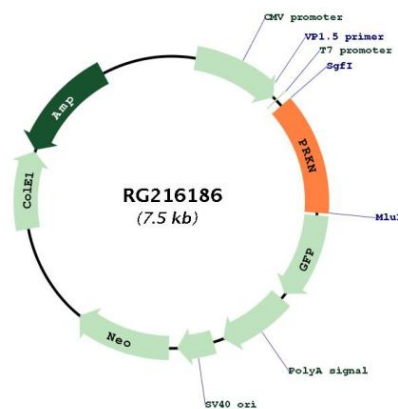
Cytogenetics: 6q26

Domains: UBQ, IBR

Protein Pathways: Parkinson's disease, Ubiquitin mediated proteolysis

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 RG216186