

Product datasheet for **RG225206**

PARK7 (NM_001123377) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PARK7 (NM_001123377) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: PARK7
Synonyms: DJ-1; DJ1; GATD2; HEL-S-67p
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG225206 representing NM_001123377
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTTCCAAAAGAGCTCTGGTCATCCTGGCTAAAGGAGCAGAGGAAATGGAGACGGTCATCCCTGTAG
ATGTCATGAGGCGAGCTGGGATTAAGGTCACCGTTGCAGGCCTGGCTGGAAAAGACCCAGTACAGTGTAG
CCGTGATGTGGTCATTTGCTGATGCCAGCCTGAAGATGCAAAAAAGAGGGACCATATGATGTGGTG
GTTCTACCAGGAGTAATCTGGGCGCACAGAATTTATCTGAGTCTGCTGCTGTGAAGGAGATACTGAAGG
AGCAGGAAAACCGAAGGGCCTGATAGCCGCCATCTGTGCAGGTCTACTGCTCTGTTGGCTCATGAAAT
AGGTTTTGGAAGTAAAGTTACAACACACCCTCTTGCTAAAGACAAAATGATGAATGGAGGTCATTACACC
TACTCTGAGAATCGTGTGAAAAAGACGGCCTGATTCTTACAAGCCGGGGCCTGGGACCAGCTTCGAGT
TTGCGCTTGAATTGTTGAAGCCCTGAATGGCAAGGAGGTGGCGCTCAAGTGAAGGCTCCACTTGTCTT
TAAAGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG225206 representing NM_001123377
Red=Cloning site Green=Tags(s)

MASKRALVILAKGAEEMETVIPVDVMRRAGIKVTVAGLAGKDPVQCSRVDVVICPDASLEDAKKEGPDYDV
VLPGGNLGAQNLSESAVKEILKEQENRKLIAAICAGPTALLAHEIGFGSKVTTHPLAKDKMMNGGHYT
YSENRVEKDGLILTSRPGTSFEFALAIIVEALNGKEVAAQVKAPLVLKD

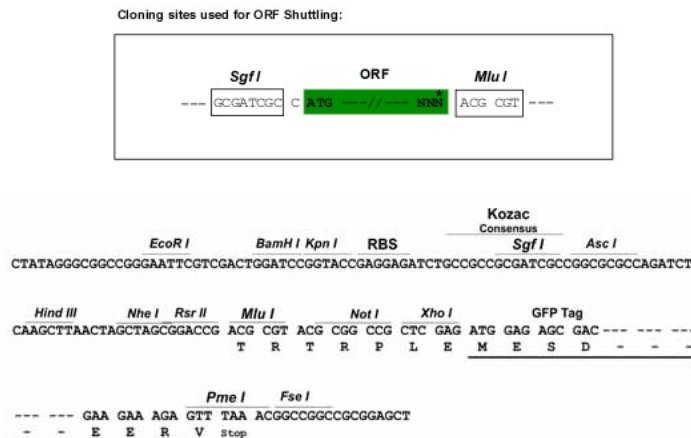
TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

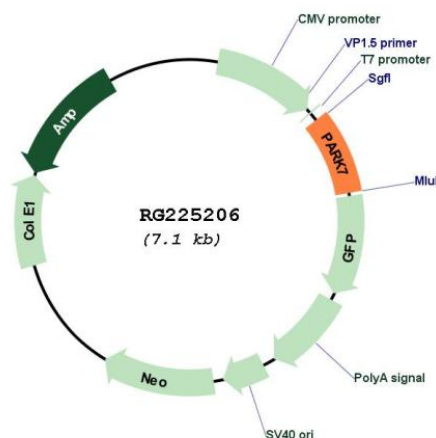


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001123377

ORF Size: 567 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_001123377.1](#), [NP_001116849.1](#)

RefSeq Size: 921 bp

RefSeq ORF: 570 bp

Locus ID: 11315

UniProt ID: [Q99497](#)

Cytogenetics: 1p36.23

Protein Families: Druggable Genome, Protease

Protein Pathways: Parkinson's disease

Gene Summary: The product of this gene belongs to the peptidase C56 family of proteins. It acts as a positive regulator of androgen receptor-dependent transcription. It may also function as a redox-sensitive chaperone, as a sensor for oxidative stress, and it apparently protects neurons against oxidative stress and cell death. Defects in this gene are the cause of autosomal recessive early-onset Parkinson disease 7. Two transcript variants encoding the same protein have been identified for this gene. [provided by RefSeq, Jul 2008]