Product datasheet for RC225206

PARK7 (NM_001123377) Human Tagged ORF Clone

Product data:

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Product Type:	Expression Plasmids
Product Name:	PARK7 (NM_001123377) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PARK7
Synonyms:	DJ-1; DJ1; GATD2; HEL-S-67p
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC225206 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGCTTCCAAAAGAGCTCTGGTCATCCTGGCTAAAGGAGCAGAGGAAATGGAGACGGTCATCCCTGTAG ATGTCATGAGGCGAGCTGGGATTAAGGTCACCGTTGCAGGCCTGGCTGGAAAAGACCCAGTACAGTGTAG CCGTGATGTGGTCATTTGTCCTGATGCCAGCCTTGAAGATGCAAAAAAAGAGGGACCATATGATGTGGTG GTTCTACCAGGAGGTAATCTGGGTGCACAGAATTTATCTGAGTCTGCTGCTGTGAAGGAGATACTGAAGG AGCAGGAAAACCGGAAGGGCCTGATAGCCGCCATCTGTGCAGGTCCTACTGCTCTGTTGGCTCATGAAAT AGGTTTTGGAAGTAAAGTTACAACACACCCTCTTGCTAAAGACAAAATGATGAATGGAGGTCATTACACC TACTCTGAGAATCGTGTGGAAAAAGACGGCCTGATTCTTACAAGCCGGGGGCCTGGGACCAGCTTCGAGT TTGCGCTTGCAATTGTTGAAGCCCTGAATGGCAAGGAGGTGGCGGCTCAAGTGAAGGCTCCACTTGTTCT TAAAGAC ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Protein Sequence:	>RC225206 protein sequence Red=Cloning site Green=Tags(s) MASKRALVILAKGAEEMETVIPVDVMRRAGIKVTVAGLAGKDPVQCSRDVVICPDASLEDAKKEGPYDVV VLPGGNLGAQNLSESAAVKEILKEQENRKGLIAAICAGPTALLAHEIGFGSKVTTHPLAKDKMMNGGHYT YSENRVEKDGLILTSRGPGTSFEFALAIVEALNGKEVAAQVKAPLVLKD TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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Chromatograms:	https://cdn.origene.com/chromatograms/mk6014_a02.zip
Restriction Sites:	SgfI-MluI
Cloning Scheme:	
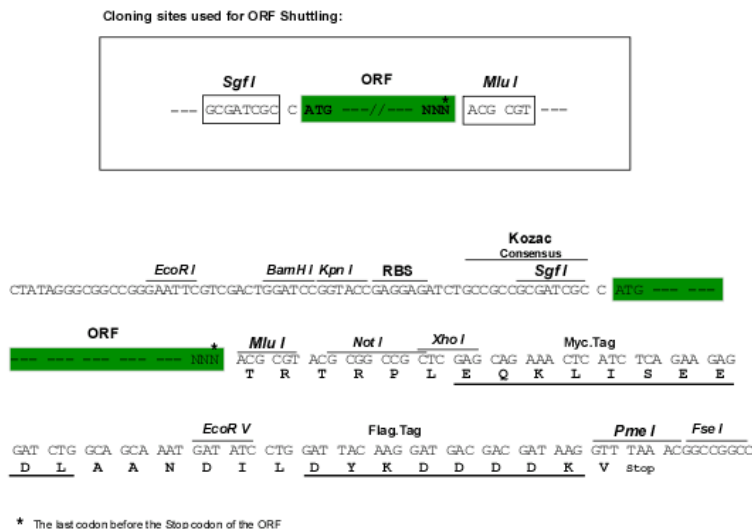
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ACCN:	NM_001123377
ORF Size:	567 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring 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

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UniProt ID:	Q99497
Cytogenetics:	1p36.23
Protein Families:	Druggable Genome, Protease
Protein Pathways:	Parkinson's disease
MW:	19.9 kDa
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]

Product images:
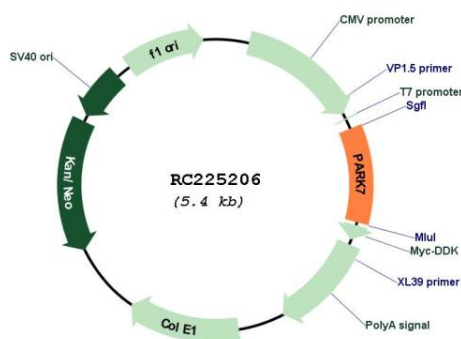
Circular map for RC225206
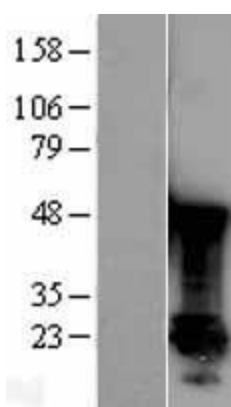
Western blot validation of overexpression lysate (Cat# [LY426614]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC225206 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).
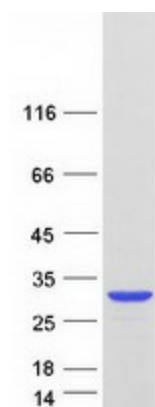
Coomassie blue staining of purified PARK7 protein (Cat# [TP325206]). The protein was produced from HEK293T cells transfected with PARK7 cDNA clone (Cat# RC225206) using MegaTran 2.0 (Cat# [TT210002]).