

## Product datasheet for **RG201645**

### **PARK7 (NM\_007262) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** PARK7 (NM\_007262) 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:** >RG201645 representing NM\_007262  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCTTCCAAAAGAGCTCTGGTCATCCTGGCTAAAGGAGCAGAGGAAATGGAGACGGTCATCCCTGTAG  
 ATGTCATGAGGCGAGCTGGGATTAAGGTCACCGTTGCAGGCCTGGCTGGAAAAGACCCAGTACAGTGTAG  
 CCGTGATGTGGTCATTTGCTGATGCCAGCCTGAAGATGCAAAAAAGAGGGACCATATGATGTGGTG  
 GTTCTACCAGGAGTAATCTGGGTGCACAGAATTTATCTGAGTCTGCTGCTGTGAAGGAGATACTGAAGG  
 AGCAGGAAAACCGAAGGCCTGATAGCCGCCATCTGTGCAGGCTCTACTGCTCTGTTGGCTCATGAAAT  
 AGGTTTTGGAAGTAAAGTTACAACACACCCTCTTGCTAAAGACAAAATGATGAATGGAGGTCATTACACC  
 TACTCTGAGAATCGTGTGAAAAAGACGCCTGATTCTTACAAGCCGGGGCCTGGGACCAGCTTCGAGT  
 TTGCGCTTGAATTGTTGAAGCCCTGAATGGCAAGGAGGTGGCGCTCAAGTGAAGGCTCCACTTGTCT  
 TAAAGAC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >RG201645 representing NM\_007262  
 Red=Cloning site Green=Tags(s)

MASKRALVILAKGAEEMETVIPVDVMRRAGIKVTVAGLAGKDPVQCSRVDVVICPDASLEDAKKEGPDYDV  
 VLPGGNLGAQNLSESAVKEILKEQENRKLIAAICAGPTALLAHEIGFGSKVTTHPLAKDKMMNGGHYT  
 YSENRVEKDGLILTSRPGTSFEFALAIIVEALNGKEVAAQVKAPLVLKD

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



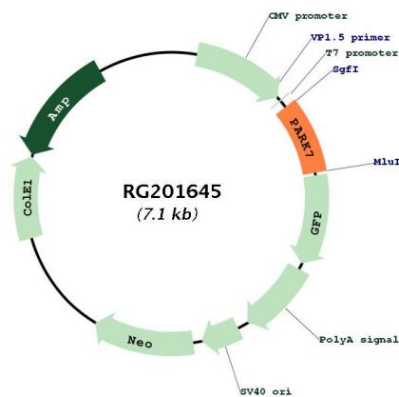
[View online »](#)

**Cloning Scheme:**


- ACCN:** NM\_007262
- 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\\_007262.3](#), [NP\\_009193.2](#)
- RefSeq Size:** 906 bp
- RefSeq ORF:** 570 bp
- Locus ID:** 11315
- UniProt ID:** [Q99497](#)
- Cytogenetics:** 1p36.23

Domains:	DJ-1_PfpI
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]

### Product images:



Circular map for RG201645