

Product datasheet for **RG206970**

PINK1 (NM_032409) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PINK1 (NM_032409) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PINK1
Synonyms:	BRPK; PARK6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG206970 representing NM_032409
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGTGCGACAGGCGCTGGGCCGCGCCTGCAGCTGGGTGCGAGCGCTGCTGCTGCGCTTACAGGGCA
 AGCCCGGCCGGGCTACGGCTTGGGGCGGCCGGGCCCGGCGCGGGCTGTGTCCGCGGGGAGCGTCCAGG
 CTGGGCCGAGGACCGGGCGCGGAGCCTCGCAGGGTGGGCTCGGGCTCCCTAACCGTCTCCGCTTCTTC
 CGCCAGTCGGTGGCCGGGCTGGCGGCGCGGTTGCAGCGGCAGTTCGTGGTGGGGCTGGGGCTGCGCGG
 GCCCTTGGCGCCGGGAGTCTTTCTGGCCTTGGGCTAGGGCTGGGCTCATCGAGGAAAAACAGCGGA
 GAGCCGGCGGGCGGTCTCGCCTGTGAGGATCCAGGCAATTTTACCCAGAAAAGCAAGCCGGGGCT
 GACCCGTGGACACGAGACGCTTGCAGGGCTTTCGGCTGGAGGATCTGATAGGGCAGTCCATTGGTA
 AGGGCTGCAGTGTGCTGTGATGAAGCCACCATGCCTACATTGCCCCAGAACCTGGAGGTGACAAAGAG
 CACCGGTTGCTTCCAGGAGAGGCCAGGTACCAGTGCACCAGGAGAAGGGCAGGAGCGAGCTCCGGGG
 GCCCTGCCTTCCCTTGGCCATCAAGATGATGTGGAACATCTCGGCAGGTTCTCCAGCGAAGCCATCT
 TGAACACAATGAGCCAGGAGCTGGTCCCAGCGAGCCGAGTGGCCTTGGTGGGGAGTATGGAGCAGTCCAC
 TTACAGAAAAATCCAAGAGAGGTCCCAAGCAACTAGCCCTCACCCCAACATCATCCGGGTTCTCCGCGCC
 TTCACCTTTCGTGCCGCTGCTGCCAGGGGCCCTGGTCGACTACCCTGATGTGCTGCCCTCACGCCTCC
 ACCCTGAAGGCCCTGGGCCATGGCCGGACGCTGTTCTCGTTATGAAGAACTATCCCTGTACCCTGCGCCA
 GTACCTTTGTGTGAACACACCCAGCCCCCGCTCGCCGCCATGATGCTGCTGCAGCTGCTGGAAGCGTG
 GACCATCTGGTTCAACAGGGCATCGCGCACAGAGACCTGAAATCCGACAACATCCTTGTGGAGCTGGACC
 CAGACGGCTGCCCTGGTGGTATCGCAGATTTTGGCTGCTGCCTGGCTGATGAGAGCATCGGCTGCA
 GTTGCCCTTACGACGCTGGTACGTGGATCGGGGCGGAAACGGCTGTCTGATGGCCCCAGAGGTGCCACG
 GCCCGTCTGGCCCCAGGGCAGTGATTGACTACAGCAAGGCTGATGCCTGGGCAGTGGGAGCCATCGCCT
 ATGAAATCTTCGGGCTTGTCAATCCCTTACGGCCAGGGCAAGGCCACCTTGAAGCCGAGCTACCA
 AGAGGCTCAGCTACCTGCACTGCCCGAGTCAGTGCCTCCAGACGTGAGACAGTTGGTGGGGCACTGCTC
 CAGCGAGAGGCCAGAAAGACCATCTGCCCGAGTAGCCGCAATGTGCTTATTAAGCCTCTGGGGT
 AACATATTCTAGCCCTGAAGAATCTGAAGTTAGACAAGATGGTTGGCTGGCTCTCCAACAATCGGCCG
 CACTTTGTTGCCAACAGGCTCACAGAGAAGTGTGTGTGAAACAAAAATGAAGATGCTCTTTCTGGCT
 AACCTGGAGTGTAAACGCTCTGCCAGGCAGCCCTCCTCTCTGCTCATGGAGGGCAGCCCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG206970 representing NM_032409
 Red=Cloning site Green=Tags(s)

MAVRQALGRGLQLGRALLLRFTGKPGRAYGLGRPGPAAGCVRGERPGWAAGPGAEP RRVGLGLPNRLRFF
 RQSVAGLAARLQRQFVVRWAGCAGPCGRAVFLAFGLGLLIEEKQAESRRAVSACQEIQAIFTQKSKPGP
 DPLDTRRLQGFRLLEEYLIGQSIGKGCSSAAVYEATMPTLPQNLEVTKSTGLLPGRGPGTSAPGEGQERAPG
 APAFPLAIKMMWNI SAGSSSEAILNMSQELVPASRVALAGEYGA VTYRKS KRGPQLAPHPNIIIRVLR
 FTSSVPLLPALVDYDPVLP SRLHPEGLGHGRTLFLVMKNYPCTLRQYL CVNTPSPRLAAMLLQLLEGV
 DHLVQQGIAHRDLKSDNILVELDPDGPWLVIADFGCCLADESIGLQLP FSSWYVDRGGNGCLMAPEVST
 ARPGPRAVIDYSKADAWAVGAIAYEIFGLVNPFGQGAHLESRSYQEAQLPALPE SVPPDVRLVRALL
 QREASKRPSARVAANVHLHL SLWGEHILALKNLKLDKMGWLLQQAATLLANRLTEKCCVETKMKMLFLA
 NLECETLCQAALLLCSWRAAL

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_032409

ORF Size: 1743 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

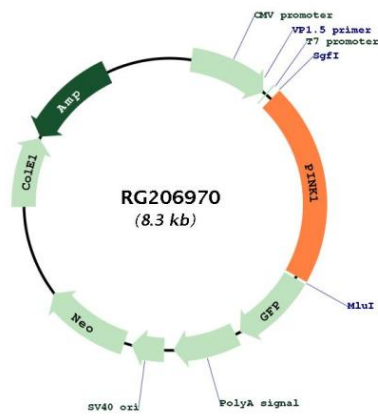
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_032409.3](#)
RefSeq Size: 2700 bp
RefSeq ORF: 1746 bp
Locus ID: 65018
UniProt ID: [Q9BXM7](#)
Cytogenetics: 1p36.12
Domains: pkinase, TyrKc, S_TKc
Protein Families: Druggable Genome, Protein Kinase
Protein Pathways: Parkinson's disease
Gene Summary: This gene encodes a serine/threonine protein kinase that localizes to mitochondria. It is thought to protect cells from stress-induced mitochondrial dysfunction. Mutations in this gene cause one form of autosomal recessive early-onset Parkinson disease. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG206970