

Product datasheet for **SC323548**

PINK1 (NM_032409) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PINK1 (NM_032409) Human Untagged Clone
Tag:	Tag Free
Symbol:	PINK1
Synonyms:	BRPK; PARK6
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC323548 sequence for NM_032409 edited (data generated by NextGen Sequencing)

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ATGGCGGTGCGACAGGCGCTGGGCCGCGGCCTGCAGCTGGGTCGAGCGCTGCTGCTGCGC
TTCACGGGCAAGCCCGGCCGGCCTACGGCTTGGGGCGGCCGGGCCCGGGCGGGCTGT
GTCCGCGGGGAGCGTCCAGGCTGGGCCGACAGACCAGGCGCGGAGCCTCGCAGGGTCGGG
CTCGGGCTCCCTAACCGTCTCCGCTTCTCCGCCAGTCGGTGGCCGGGCTGGCCGGCAGTC
TTGCAGCGGCAGTTCGTGGTGCGGGCCTGGGGCTGCGCGGGCCCTTGGCGCCGGGCAGTC
TTTCTGGCCTTCGGGCTAGGGCTGGGCCCTCATCGAGAAAAACAGGCGGAGAGCCGGCGG
GCGGTCTCGGCCTGTCAGGAGATCCAGGCAATTTTTACCCAGAAAAAGCAAGCCGGGGCCT
GACCCGTGGACACGAGACGCTTGCAGGGCTTTCGGCTGGAGGAGTATCTGATAGGGCAG
TCCATTGGTAAGGGCTGCAGTGTGCTGTGTATGAAGCCACCATGCCTACATTGCCCCAG
AACCTGGAGGTGACAAAGAGCACCGGGTTGCTTCCAGGGAGAGGCCAGGTACCAGTGCA
CCAGGAGAAGGGCAGGAGCGAGCTCCGGGGGCCCTGCCTTCCCCTTGGCCATCATGATG
ATGTGGAACATCTCGGCAGGTTCTCCAGCGAAGCCATCTTGAACACAATGAGCCAGGAG
CTGGTCCAGCGAGCCGAGTGGCCTTGGCTGGGGAGTATGGAGCAGTCACTTACAGAAAA
TCCAAGAGAGGTCCCAAGCAACTAGCCCTCACCCCAACATCATCCGGGTCTCCGCGCC
TTCACCTTTCGGTGCCTGCTGCCAGGGGCCCTGGTCGACTACCCTGATGTGTGCTGCC
TCACGCCTCCACCCTGAAGGCCTGGGCCATGGCCGGACGCTGTTCTCGTTATGAAGAAC
TATCCCTGTACCCTGCGCCAGTACCTTTGTGTGAACACACCCAGCCCGCCTCGCCGCC
ATGATGCTGCTGCAGTGTGGAAGGCGTGGACCATCTGGTTCAACAGGGCATCGCGCAC
AGAGACCTGAAATCCGACAACATCCTTGTGGAGCTGGACCCAGACGGCTGCCCTGGCTG
GTGATCGCAGATTTTGGCTGCTGCCTGGCTGATGAGAGCATCGGCCTGCAGTTGCCCTTC
AGCAGCTGGTACGTGGATCGGGGCGGAAACGGCTGTCTGATGGCCCAAGAGGTGTCCACG
GCCCGTCTGGCCCAAGGCAGTATTGACTACAGCAAGGCTGATGCCTGGGCAGTGGGA
GCCATCGCCTATGAAATCTTCGGGCTTGTCAATCCCTTCTACGGCCAGGGCAAGGCCAC
CTTGAAAGCCGACGCTACCAAGAGGCTCAGCTACCTGCACTGCCCGAGTCAAGTGCCTCCA
GACGTGAGACAGTTGGTGGGGCACTGCTCCAGCGAGAGGCCAGCAAGAGACCATCTGCC
CGAGTAGCCGCAATGTGCTTCTAAGCCTCTGGGGTGAACATATTCTAGCCCTGAAG
AATCTGAAGTTAGACAAGATGGTTGGCTGGCTCCTCAACAATCGGCCGCCACTTTGTTG
GCCAACAGGCTCACAGAGAAGTGTGTGTGGAACAAAAATGAAGATGCTCTTTCTGGCT
AACCTGGAGTGTGAAACGCTCTGCCAGGCAGCCCTCCTCTCTGCTCATGGAGGGCAGCC
CTGTGA
    
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Clone variation with respect to NM_032409.2
656 a=>t

5' Read Nucleotide Sequence: >OriGene 5' read for mutant NM_032409 unedited

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CCGCCCCGTTGAGCAATGGGCGGTAGGCGGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTT
AGTGAA
CCGTGAGAAATTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCGCCGGT
GGTGGCG
GCAGCGGCGGCTGCGGGGGCACCGGGCCGCGGCCACCATGGCGGTGCGACAGGCGCTGGGCC
GCGGCC
TGCAGTGGGTCGAGCGCTGCTGCTGCGCTTACGGGCAAGCCCGGCCGGCCTACGGCTTGGG
CGGCC
GGGCCCGGCGGGGCTGTGTCCCGGGGGAGCGTCCAGGCTGGGCCGCAAGGAACCGGGCGG
CGGGAG
CCTTCCGCAAGGGTCCGGGCTCTCGGCTTCCCTACCCTGCTCTCCGCTTCTTTCCGCAATCT
CGTGT
GGCCGGCCTGGGCGGGCCGGGTTGCAACCGCCGTTTCTTGGTGGGCGGGCCTTGGGGCTGG
CGCGG
GCCCTGGGCGGGCGGGCATTTTTTTTGGGCCCTTCGGGCTAGGGTGGGGCCCATTCGGGGA
AAAAA
CAGGGCGGAAAGCCCGGGGGCGGGCCCGGCCGTGGCAGGGAATTCACCCATTTTATACCGA
AAAAA
CCACCCGGGCAAAACCTTGAACCAAAACCTTTTGGAGGGTCTGGGGGAAGGATTAGTTAGCG
GGT
CTCCAATGAAGGCGCCTCACATAACTAGGGAAACCATCGCAATC
    
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Kinase Domain Sequence:	>SC323548 kinase domain raw sequence. By performing BLASTX analysis with this sequence against NCBI reference protein database, you can confirm the presence of the kinase-deficient mutation TGRGTGMAAGAGCACCGGGTTGCTTCCAGGGAGAGGCCAGGTACCAGTGCACCAGGAGAAGGGCWWAG CGAGCTCCGGGGGCCCTGCCTTCCCCTGGCCATCATGATGATGTGGAACATCTCGGCAGGTTCTCCA GCGAAGCCATCTTGAACACAATGAGCCAGGAGCTGGTCCCAGCGAGCCGAGTGGCCTTGGCTGGGGAGTA TGGAGCAGTCACTTACAGAAAATCCAAGAGAGGTCCCAAGCAACT
Restriction Sites:	Please inquire
ACCN:	NM_032409
Insert Size:	2710 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 kinase-deficient mutant clone was generated by created by site-directed mutagenesis from the corresponding wild-type clone. See details in "Application of active and kinase-deficient kinome collection for identification of kinases regulating hedgehog signaling." Cell, 2008 May p536-548.
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:	<ol style="list-style-type: none"> 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_032409.1 , NP_115785.1
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]