

Product datasheet for **MC205235**

Pink1 (NM_026880) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pink1 (NM_026880) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pink1
Synonyms:	1190006F07Rik; AU042772; AW557854; BRPK; mFLJ00387
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC067066
 CAGACGTTTGTGGCGGTGGCAGCTGGCTCCGGTACCAGCCACCATGGCGGTGCGACAGGCACTGGGCC
 GAGGCCTGCAGCTGGGTGGGGCGCTGCTGCTGCGCTTCGCGCCAAAGCCCGGCCGCTGTTCCGGCTGGG
 GAAGCCCGGCCCGCGGGCGGCTGGGGCCGCGGAGAGCGCCAGGCCAGGTCTGAAGCCCGGAGCACAG
 CCTCGGCCGGTGGGCTCCCCCTCCGGACCGTACCCTTCTCCGCCAGTCGGTAGCTGGGCTGGCGG
 CGCGGATCCAGAGGCAGTTCATGGTGGGGCCCGGGCGGCGCAGGCCCTTGGCGCCGAGCGGTCTTCT
 GGCTTCGGGCTGGGGCTGGGGCTGATCGAGGAGAAGCAGGCGGAAGCCGGAGGGCCGCTCGGCCTGT
 CAGGAGATCCAGCAATTTTACACAGAAAACCAAGCGGTGTCTGACCCACTGGACACTCGATGCTGGC
 AGGGCTTCCGTCTGGAGGATTATCTGATAGGGCAAGCCATTGGCAAGGGTTGCAATGCCGCTGTGTATGA
 AGCCACCATGCCACGCTGCCCCAGCACCTGAAAAAGGCCAAACACCTTGGCCTTATAGGAAAGGGCCCG
 GATGTCGTCTGAAGGGAGCAGACGGGAGCAGGCTCCAGGGACTCCACCTTTCCTTTGCCATCAAGA
 TGATGTGGAATATCTCGGCAGGTTCTCCAGCGAAGCCATCTTAAGCAAATGAGCCAGGAGCTGGTCCC
 GGCAAGCCGCGTGGCTTTGGCTGGAGAGTATGGAGCAGTACTTACAGAAGATCCAGAGATGGTCCCAAG
 CAGCTTGGCCACACCCTAACATCATCCGGTTTTCCGCGCTTACCTCATCTGTGCCCTCCTGCCGG
 GGCCCTGGCTGACTATCCTGATATGCTGCCCCACACTACTACCAGAAGGCCTGGGCCACGGTCGCAC
 ACTGTTCTCGTTATGAAGAACTACCCCTGTACCTGCGCCAGTACCTTGAGGAGCAGACTCCAGTCTCT
 CGCCTGGCTACCATGATGACCTTGACGTTGCTGGAGGGCGTGGACCATCTGGTTCAGCAGGGCATTGCC
 ATCGGGATCTCAAGTCCGACAACATCCTTGTGGAGTGGGACTCAGATGGCTGTCCCTGGTAGTATCTC
 AGACTTTGGTGTCTGCCTGGCTGACCAGCATGTTGGCCTGCGGCTGCCTTTCAACAGCTCCAGTGTAGAG
 CGTGGTGGCAATGGCTCCCTGATGGCCCTGAGGTGTCCACAGCCATTCTGGCCCCAGTGGCGTAATTG
 ACTACAGCAAAGCCGATACCTGGGCTGTGGGGCCATCGCCTATGAAATCTTTGGGCTTGCCAATCCCTT
 CTATGGCCAAGGCAGTGGCCACCTCGAGAGCCGAGCTACCAGGAAGCTCAGCTGCCTGAGATGCCTGAG
 TCGGTGCCTCCAGAGGCAAGACGGCTGGTGGGCTACTGCTCCAGCGAGAGGCCAGCAAGAGACCGTCTG
 CAGCCTTAGCTGCAAATGTGCTGCACTTAAGCCTCTGGGGCGAGCATCTTCTAGCCCTGAAGAACCTGAA
 ATTGGACAAGATGATCGCCTGGCTTTGACAGCAGTCAGCAGCCACTCTGCTGGCTGACAGGCTGAGAGAG
 AAGAGCTGCGTGGAGACAAAGCTGCAGATGCTGTTTCTGGCTAACCTGGAGTGTGAGGCTCTCTGCCAGG
 CAGCCCTCCTCTCTTCTGGAGGGCAGCCCCATGATGGCTCTGTGCTCCAGTACTAAAAGACTAAG
 GGGCATCTGTGCTCTGATGTCATGACAGTATACGAAGGCTGAAGAAGGTGGCTTGGCTGGGTGGCAGGA
 GTCAGGGGACAAGCTGGAGTAGAGGGAGGGGCTGGTCAGCCTTGGGCTCAGCAAATGGGAAGAACAGCCT
 TGAACAGCTCAGGAGGGAGAGAGGCACTACCTGTGCCCGTCCAGTTAGGTTCTTGGGCAGAATTAAGACA
 TCAGGCCAGACCAGGAGTTGGTAAGCTATAGAGGGCCAGACAGGGAATGAAGTAGTTGTAATGACTAAC
 TATCACTGAGGCAAAGGCCAAGCAAGCACTGCACTGAGGCAACACTGAACTTTGCTTGTGCTCAATAAG
 TTCTGCTCATTTTTCCCAACCACTTAGAAATGCAAAAACATAGGTTTAATTTGTAAGCAGCAACCAGCAT
 GGCTCATAGTCAAATTTACCAATTCCTGGGCTAAATGCATTCTTTATGTCTAACTCTTTAAAGATGCGAG
 CATTAAAGACAGTCTCCATGCCAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Ascl-NotI
ACCN: NM_026880
Insert 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](#)

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: [BC067066](#), [AAH67066](#)

RefSeq Size: 2350 bp

RefSeq ORF: 1743 bp

Locus ID: 68943

UniProt ID: [Q99MQ3](#)

Cytogenetics: 4 D3

Gene Summary: Protects against mitochondrial dysfunction during cellular stress by phosphorylating mitochondrial proteins (PubMed:24652937). Involved in the clearance of damaged mitochondria via selective autophagy (mitophagy) by mediating activation and translocation of PRKN (PubMed:24784582). Targets PRKN to dysfunctional depolarized mitochondria through the phosphorylation of MFN2 (By similarity). Activates PRKN in 2 steps: (1) by mediating phosphorylation at 'Ser-65' of PRKN and (2) mediating phosphorylation of ubiquitin, converting PRKN to its fully-active form (PubMed:24784582). Required for ubiquinone reduction by mitochondrial complex I by mediating phosphorylation of complex I subunit NDUFA10 (PubMed:24652937).[UniProtKB/Swiss-Prot Function]