

Product datasheet for **MG209092**

Pink1 (NM_026880) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pink1 (NM_026880) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pink1
Synonyms:	1190006F07Rik; AU042772; AW557854; BRPK; mFLJ00387
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209092 representing NM_026880
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGTGCGACAGGCACTGGGCCGAGGCTGCAGCTGGTTCGGCGCTGCTGCTGCGCTTCGCGCCCA
 AGCCCGGCCCGCTGTTCGGCTGGGGGAAGCCCGGCCCGCGCGGCTGGGGCCGCGAGAGCGCCAGG
 CCAGGTCGTAAGCCCGGAGCACAGCCTCGGCCGGTTCGGGCTCCCCCTCCCGGACCCTACCGCTTCTTC
 CGCCAGTCGGTAGCTGGGCTGGCGGCGGGATCCAGAGGCAATTCATGGTTCGGGCGCCGGGGCGGCGAG
 GCCCTTGGCGCCGAGCGGTCTTCTGGCCTTCGGGCTGGGGCTGGGGCTGATCGAGGAGAAGCAGGCGGA
 AGGCCGGAGGGCCGCTCGGCTGTGAGAGATCCAGGCAATTTTACACAGAAAACCAAGCGGTGTCT
 GACCCACTGGACTCGATGCTGGCAGGGCTCCGTCTGGAGGATTATCTGATAGGGCAAGCCATTGGCA
 AGGTTGCAATGCCGCTGTGATGAAGCCACCATGCCACGCTGCCCCAGCACCTGGAAAAGGCCAAACA
 CCTTGGCCTTATAGGAAAGGGCCCGGATGTCGTCTGAAGGGAGCAGACGGGAGCAGGCTCCAGGGACT
 CCACCTTTCCCTTTGCCATCAAGATGATGTGGAATATCTCGGCAGGTTCTCCAGCGAAGCCATCTTAA
 GCAAAATGAGCCAGGAGCTGGTCCCGGCAAGCCGCTGGCTTTGGCTGGAGAGTATGGAGCAGTTACTTA
 CAGAAGATCCAGAGATGGTCCCAAGCAGCTTGGCCACACCTAACATCATCCGGGTTTTCCGCGCCTTC
 ACCTCATCTGTGCCCTCCTGCCGGGGCCCTGGCTGACTATCCTGATATGCTGCCCCACACTACTACC
 CAGAAGGCTGGGCCACGGTCGCACACTGTTCTCGTTATGAAGAACTACCCCTGTACCTGCGCCAGTA
 CCTTGAGGAGCAGACTCCAGTTCTCGCTGGCTACCATGATGACCTTGCAGTTGCTGGAGGGCGTGGAC
 CATCTGGTTAGCAGGGCATTGCCATCGGGATCTCAAGTCCGACAACATCCTTGTGGAGTGGGACTCAG
 ATGGCTGCCCTGGCTAGTGATCTCAGACTTTGGCTGCTGCCTGGCTGACCAGCATGTTGGCTGCGGCT
 GCCTTTCAACAGCTCCAGTGTAGAGCGTGGTGGCAATGGCTCCCTGATGGCCCTGAGGTGCCACAGCC
 CATTCTGGCCCCAGTGGCGTAATTGACTACAGCAAAGCCGATACCTGGGCTGTGGGGCCATCGCCTATG
 AAATCTTTGGGCTTGCCAATCCCTTCTATGGCCAAAGCAGTGCCACCTCGAGAGCCGAGCTACCAGGA
 AGCTCAGCTGCCTGAGATGCCTGAGTCGGTGCCTCCAGAGGCAAGACGGCTGGTGAAGTCACTGCTCCAG
 CGAGAGGCCAGCAAGAGACCGTCTGCACGCTTAGCTGCAATGTGCTGCACTTAAGCCTCTGGGGCAGC
 ATCTTCTAGCCCTGAAGAACCTGAAATGGACAAGATGATCGCCTGGCTTTGCAGCAGTCAGCAGCCAC
 TCTGCTGGCTGACAGGCTGAGAGAGAAGAGCTGCGTGGAGACAAAGCTGCAGATGCTGTTTCTGGCTAAC
 CTGGAGTGTGAGGCTCTCTGCCAGGAGCCCTCCTCTCTTCTGGAGGGCAGCCCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG209092 representing NM_026880
 Red=Cloning site Green=Tags(s)

MAVRQALGRGLQLGRALLLRFAPKPGPLFGWGKPGPAAAWGRGERPGQVVSPPAQPRPVGLPLPDRYRFF
 RQSVAGLAARIQRQFMVRARGGAGPCGRAVFLAFGLGLGLIEEKQAEGRRAASACQEIQAIFTQKTRVS
 DPLDTRCWQGFRLLEDYLIGQAIKGCNAAYVEATMPTLPQHLEKAKHLGLIGKGPDVVLKADGEQAPGT
 PTFPFAIKMMWNI SAGSSSEAILSKMSQELVPASRVALAGEYGAVTYRRSRDGPQLAPHPNIIRVFRF
 TSSVPLLPALADYPDMLPPHYYPEGLGHGRTLFLVMKNYPCTLRQYLEEQTPSSRLATMMLQLLEGVD
 HLVOQGIHRDLKSDNILVEWSDGCPWLVISDFGCLADQHVGLRPLFNSSSVERGGNGSLMAPEVSTA
 HSGPSAVIDYSKADTWAVGAIAYEIFGLANPFYQGS AHLESRSYQEAQLPEMPESVPPEARLVRSLQ
 REASKRPSARLAANVHLVSLWGEHLLALKNLKLDKMIAWLLQQAATLLADRLREKSCVETKLQMLFLAN
 LECEALCQAALLLSSWRAAP

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_026880

ORF Size: 1740 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.

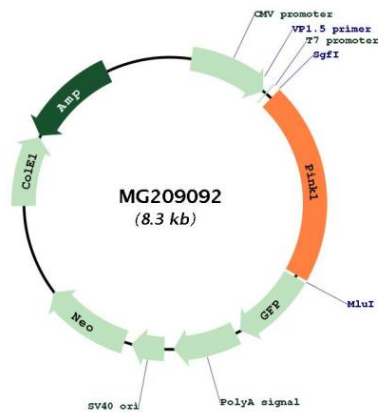
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_026880.2, NP_081156.2](#)
RefSeq Size: 2367 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]

Product images:



Circular map for MG209092