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Product datasheet for MR209092L2V

Pink1 (NM_026880) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Pink1 (NM_026880) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Pink1
Synonyms:	1190006F07Rik; AU042772; AW557854; BRPK; mFLJ00387
Mammalian Cell Selection:	None
Vector:	pLenti-C-mGFP (PS100071)
Tag:	mGFP
ACCN:	NM_026880
ORF Size:	1740 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR209092).
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.
RefSeq:	NM_026880.2, NP_081156.2
RefSeq Size:	2367 bp
RefSeq ORF:	1743 bp
Locus ID:	68943
UniProt ID:	Q99MQ3
Cytogenetics:	4 D3

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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]