

Product datasheet for **MR216282L4V**

Nek1 (NM_175089) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Nek1 (NM_175089) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Nek1
Synonyms:	D8Ertd790e; kat
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_175089
ORF Size:	3609 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR216282).
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_175089.3 , NP_780298.2
RefSeq Size:	4264 bp
RefSeq ORF:	3612 bp
Locus ID:	18004
UniProt ID:	P51954
Cytogenetics:	8 30.91 cM



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Gene Summary:

Phosphorylates serines and threonines, but also appears to possess tyrosine kinase activity (PubMed:1382974). Involved in DNA damage checkpoint control and for proper DNA damage repair (PubMed:18843199). In response to injury that includes DNA damage, NEK1 phosphorylates VDAC1 to limit mitochondrial cell death (By similarity). May be implicated in the control of meiosis (PubMed:1382974). Involved in cilium assembly (By similarity). [UniProtKB/Swiss-Prot Function]