

Product datasheet for **MR217007L3V**

Nek6 (NM_021606) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Nek6 (NM_021606) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Nek6
Synonyms:	1300007C09Rik
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_021606
ORF Size:	942 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR217007).
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_021606.3 , NP_067619.1
RefSeq Size:	3168 bp
RefSeq ORF:	942 bp
Locus ID:	59126
UniProt ID:	Q9ES70
Cytogenetics:	2 24.41 cM



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Gene Summary:

Protein kinase which plays an important role in mitotic cell cycle progression. Required for chromosome segregation at metaphase-anaphase transition, robust mitotic spindle formation and cytokinesis. Phosphorylates ATF4, CIR1, PTN, RAD26L, RBBP6, RPS7, TRIP4, RPS6KB1 and histones H1 and H3. Phosphorylates KIF11 to promote mitotic spindle formation. Involved in G2/M phase cell cycle arrest induced by DNA damage. Inhibition of activity results in apoptosis. May contribute to tumorigenesis by suppressing p53/TP53-induced cancer cell senescence (By similarity). Phosphorylates STAT3.[UniProtKB/Swiss-Prot Function]