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Product datasheet for MR218018L3V

Diaph3 (NM_019670) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Diaph3 (NM_019670) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Diaph3
Synonyms:	4930417P13Rik; Dia2; Diap3; Drf3; mDia2; mKIAA4117; p134MDia2
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_019670
ORF Size:	3513 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR218018).
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_019670.1
RefSeq Size:	3516 bp
RefSeq ORF:	3516 bp
Locus ID:	56419
UniProt ID:	Q9Z207
Cytogenetics:	14 E1

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Gene Summary: Actin nucleation and elongation factor required for the assembly of F-actin structures, such as actin cables and stress fibers (PubMed:10678165, PubMed:23558171). Required for cytokinesis, stress fiber formation and transcriptional activation of the serum response factor (PubMed:10678165, PubMed:23558171). Binds to GTP-bound form of Rho and to profilin: acts in a Rho-dependent manner to recruit profilin to the membrane, where it promotes actin polymerization (PubMed:10678165). DFR proteins couple Rho and Src tyrosine kinase during signaling and the regulation of actin dynamics (PubMed:10678165). Also acts as an actin nucleation and elongation factor in the nucleus by promoting nuclear actin polymerization inside the nucleus to drive serum-dependent SRF-MRTFA activity (PubMed:23558171). [UniProtKB/Swiss-Prot Function]