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Product datasheet for MR209421L3V

Trak1 (NM_175114) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Trak1 (NM_175114) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Trak1
Synonyms:	2310001H13Rik; AI413908; AI467545; hyrt; mKIAA1042
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_175114
ORF Size:	2820 bp
ORF Nucleotide Sequence:	`The ORF insert of this clone is exactly the same as(MR209421).`
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_175114.3, NP_780323.2
RefSeq Size:	4914 bp
RefSeq ORF:	2820 bp
Locus ID:	67095
UniProt ID:	Q6PD31
Cytogenetics:	9 72.41 cM

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Gene Summary: Involved in the regulation of endosome-to-lysosome trafficking, including endocytic trafficking of EGF-EGFR complexes and GABA-A receptors (By similarity). Involved in mitochondrial motility (PubMed:24995978). When O-glycosylated, abolishes mitochondrial motility. Crucial for recruiting OGT to the mitochondrial surface of neuronal processes (By similarity). TRAK1 and RHOT form an essential protein complex that links KIF5 to mitochondria for light chain-independent, anterograde transport of mitochondria (By similarity).[UniProtKB/Swiss-Prot Function]