

Product datasheet for **MR211477L4V**

Kif5a (NM_008447) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Kif5a (NM_008447) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Kif5a
Synonyms:	D10Bwg0738e; Khc; Kif5; Kns; mKIAA4086
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_008447
ORF Size:	3084 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR211477).
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_008447.3
RefSeq Size:	4304 bp
RefSeq ORF:	3084 bp
Locus ID:	16572
UniProt ID:	P33175
Cytogenetics:	10 74.5 cM



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Gene Summary:

Microtubule-dependent motor required for slow axonal transport of neurofilament proteins (NFH, NFM and NFL) (PubMed:12682084). Can induce formation of neurite-like membrane protrusions in non-neuronal cells in a ZFYVE27-dependent manner. The ZFYVE27-KIF5A complex contributes to the vesicular transport of VAPA, VAPB, SURF4, RAB11A, RAB11B and RTN3 proteins in neurons (PubMed:21976701). Required for anterograde axonal transportation of MAPK8IP3/JIP3 which is essential for MAPK8IP3/JIP3 function in axon elongation (By similarity).[UniProtKB/Swiss-Prot Function]