

Product datasheet for **MR203552L4V**

Mapre1 (NM_007896) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Mapre1 (NM_007896) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Mapre1
Synonyms:	5530600P05Rik; AI462499; AI504412; AW260097; BIM1p; D2Ert459e; Eb1
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_007896
ORF Size:	804 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR203552).
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_007896.3 , NP_031922.1
RefSeq Size:	7330 bp
RefSeq ORF:	807 bp
Locus ID:	13589
UniProt ID:	Q61166
Cytogenetics:	2 75.95 cM



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Gene Summary:

Plus-end tracking protein (+TIP) that binds to the plus-end of microtubules and regulates the dynamics of the microtubule cytoskeleton. Promotes cytoplasmic microtubule nucleation and elongation. May be involved in spindle function by stabilizing microtubules and anchoring them at centrosomes. Also acts as a regulator of minus-end microtubule organization: interacts with the complex formed by AKAP9 and PDE4DIP, leading to recruit CAMSAP2 to the Golgi apparatus, thereby tethering non-centrosomal minus-end microtubules to the Golgi, an important step for polarized cell movement. Promotes elongation of CAMSAP2-decorated microtubule stretches on the minus-end of microtubules. Acts as a regulator of autophagosome transport via interaction with CAMSAP2 (By similarity). May play a role in cell migration (PubMed:15311282).[UniProtKB/Swiss-Prot Function]