

Product datasheet for **MR215861L4V**

Terb1 (NM_180958) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Terb1 (NM_180958) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Terb1
Synonyms:	4930532D21Rik; BB085179; Ccdc79
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_180958
ORF Size:	2304 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR215861).
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_180958.3 , NP_851289.2
RefSeq Size:	2950 bp
RefSeq ORF:	2307 bp
Locus ID:	320022
UniProt ID:	Q8C0V1
Cytogenetics:	8 D3


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Gene Summary:

Meiosis-specific telomere-associated protein involved in meiotic telomere attachment to the nucleus inner membrane, a crucial step for homologous pairing and synapsis (PubMed:24885367, PubMed:24413433, PubMed:26548954). Component of the MAJIN-TERB1-TERB2 complex, which promotes telomere cap exchange by mediating attachment of telomeric DNA to the inner nuclear membrane and replacement of the protective cap of telomeric chromosomes: in early meiosis, the MAJIN-TERB1-TERB2 complex associates with telomeric DNA and the shelterin/telosome complex. During prophase, the complex matures and promotes release of the shelterin/telosome complex from telomeric DNA (PubMed:26548954). In the MAJIN-TERB1-TERB2 complex, TERB1 probably mediates association with the shelterin/telosome complex via interaction with TERF1, promoting priming telomeric DNA attachment' (PubMed:26548954). Promotes telomere association with the nuclear envelope and deposition of the SUN-KASH/LINC complex (PubMed:24885367, PubMed:24413433). Also recruits cohesin to telomeres to develop structural rigidity (PubMed:24413433).[UniProtKB/Swiss-Prot Function]