Product datasheet for RR210760L4V

Tpm2 (NM_001024345) Rat Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Tpm2 (NM_001024345) Rat Tagged ORF Clone Lentiviral Particle
Symbol:	Tpm2
Synonyms:	MGC109519
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_001024345
ORF Size:	852 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RR210760).
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_001024345.2, NP_001019516.1
RefSeq Size:	1116 bp
RefSeq ORF:	855 bp
Locus ID:	500450
UniProt ID:	P58775
Cytogenetics:	5q22

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Gene Summary: Binds to actin filaments in muscle and non-muscle cells (PubMed:7568216,
PubMed:22812662). Plays a central role, in association with the troponin complex, in the
calcium dependent regulation of vertebrate striated muscle contraction (PubMed:22812662).
Smooth muscle contraction is regulated by interaction with caldesmon. In non-muscle cells is
implicated in stabilizing cytoskeleton actin filaments. The non-muscle isoform may have a
role in agonist-mediated receptor internalization (By similarity).[UniProtKB/Swiss-Prot
Function]