

## Product datasheet for **MR205235L4V**

### Zfyve27 (NM\_177319) Mouse Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	Zfyve27 (NM_177319) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Zfyve27
Synonyms:	2210011N02Rik; 9530077C24Rik; AI426636; AI593546; AI835681
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_177319
ORF Size:	1245 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR205235).
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. <a href="#">More info</a>
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:	<a href="#">NM_177319.3</a> , <a href="#">NP_796293.2</a>
RefSeq Size:	5636 bp
RefSeq ORF:	1248 bp
Locus ID:	319740
UniProt ID:	<a href="#">Q3TXX3</a>
Cytogenetics:	19 C3



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**Gene Summary:**

Key regulator of RAB11-dependent vesicular trafficking during neurite extension through polarized membrane transport (By similarity). Promotes axonal elongation and contributes to the establishment of neuronal cell polarity (PubMed:24251978). Involved in nerve growth factor-induced neurite formation in VAPA-dependent manner. Contributes to both the formation and stabilization of the tubular ER network. Involved in ER morphogenesis by regulating the sheet-to-tubule balance and possibly the density of tubule interconnections (By similarity). Acts as an adapter protein that facilitates the interaction of KIF5A with VAPA, VAPB, SURF4, RAB11A, RAB11B and RTN3 and the ZFYVE27-KIF5A complex contributes to the transport of these proteins in neurons. Can induce formation of neurite-like membrane protrusions in non-neuronal cells in a KIF5A/B-dependent manner (PubMed:21976701). [UniProtKB/Swiss-Prot Function]