

## Product datasheet for **MR202203L3V**

### Rab8a (NM\_023126) Mouse Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	Rab8a (NM_023126) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Rab8a
Synonyms:	AA409338; Mel
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_023126
ORF Size:	621 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR202203).
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_023126.2</a> , <a href="#">NP_075615.2</a>
RefSeq Size:	2012 bp
RefSeq ORF:	624 bp
Locus ID:	17274
UniProt ID:	<a href="#">P55258</a>
Cytogenetics:	8 34.84 cM



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**Gene Summary:**

The small GTPases Rab are key regulators of intracellular membrane trafficking, from the formation of transport vesicles to their fusion with membranes. Rabs cycle between an inactive GDP-bound form and an active GTP-bound form that is able to recruit to membranes different sets of downstream effectors directly responsible for vesicle formation, movement, tethering and fusion. That Rab is involved in polarized vesicular trafficking and neurotransmitter release. Together with RAB11A, RAB3IP, the exocyst complex, PARD3, PRKCI, ANXA2, CDC42 and DNMBP promotes transcytosis of PODXL to the apical membrane initiation sites (AMIS), apical surface formation and lumenogenesis. Together with MYO5B and RAB11A participates in epithelial cell polarization. Plays an important role in ciliogenesis (By similarity). Together with MICALL2, may also regulate adherens junction assembly (PubMed:18094055). May play a role in insulin-induced transport to the plasma membrane of the glucose transporter GLUT4 and therefore play a role in glucose homeostasis (By similarity). Involved in autophagy (By similarity).[UniProtKB/Swiss-Prot Function]