

## Product datasheet for **MR209292L3V**

### Vps33a (NM\_029929) Mouse Tagged ORF Clone Lentiviral Particle

#### Product data:

<b>Product Type:</b>	Lentiviral Particles
<b>Symbol:</b>	Vps33a
<b>Synonyms:</b>	3830421M04Rik; AI503300; AW048546; AW554476; bf
<b>Mammalian Cell Selection:</b>	Puromycin
<b>Vector:</b>	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
<b>Tag:</b>	Myc-DDK
<b>ACCN:</b>	NM_029929
<b>ORF Size:</b>	1794 bp
<b>ORF Nucleotide Sequence:</b>	The ORF insert of this clone is exactly the same as(MR209292).
<b>OTI Disclaimer:</b>	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>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>RefSeq:</b>	<a href="#">NM_029929.2</a> , <a href="#">NP_084205.2</a>
<b>RefSeq Size:</b>	4114 bp
<b>RefSeq ORF:</b>	1797 bp
<b>Locus ID:</b>	77573
<b>UniProt ID:</b>	<a href="#">Q9D2N9</a>
<b>Cytogenetics:</b>	5 63.03 cM



**Gene Summary:**

Plays a role in vesicle-mediated protein trafficking to lysosomal compartments including the endocytic membrane transport and autophagic pathways. Believed to act as a core component of the putative HOPS and CORVET endosomal tethering complexes which are proposed to be involved in the Rab5-to-Rab7 endosome conversion probably implicating MON1A/B, and via binding SNAREs and SNARE complexes to mediate tethering and docking events during SNARE-mediated membrane fusion. The HOPS complex is proposed to be recruited to Rab7 on the late endosomal membrane and to regulate late endocytic, phagocytic and autophagic traffic towards lysosomes. The CORVET complex is proposed to function as a Rab5 effector to mediate early endosome fusion probably in specific endosome subpopulations. Required for fusion of endosomes and autophagosomes with lysosomes; the function is dependent on its association with VPS16 but not VIPAS39. The function in autophagosome-lysosome fusion implicates STX17 but not UVRAG.[UniProtKB/Swiss-Prot Function]