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Product datasheet for MR211885L3V

Npc1 (NM_008720) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Npc1 (NM_008720) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Npc1
Synonyms:	A430089E03Rik; C85354; D18Ertd139e; D18Ertd723e; lcsd; nmf164; spm
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_008720
ORF Size:	3831 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR211885).
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_008720.2, NP_032746.2
RefSeq Size:	5209 bp
RefSeq ORF:	3834 bp
Locus ID:	18145
UniProt ID:	O35604
Cytogenetics:	18 6.15 cM

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Gene Summary: Intracellular cholesterol transporter which acts in concert with NPC2 and plays an important role in the egress of cholesterol from the endosomal/lysosomal compartment (PubMed:21896731, PubMed:22048958, PubMed:27551080). Unesterified cholesterol that has been released from LDLs in the lumen of the late endosomes/lysosomes is transferred by NPC2 to the cholesterol-binding pocket in the N-terminal domain of NPC1. Cholesterol binds to NPC1 with the hydroxyl group buried in the binding pocket (By similarity). May play a role in vesicular trafficking in glia, a process that may be crucial for maintaining the structural and functional integrity of nerve terminals (Probable).[UniProtKB/Swiss-Prot Function]