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Product datasheet for MR226156L4V

Nhlrc1 (NM_175340) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Nhlrc1 (NM_175340) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Nhlrc1
Synonyms:	AI505271; B230309E09Rik; EPM2B
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_175340
ORF Size:	1203 bp
ORF Nucleotide Sequence:	`The ORF insert of this clone is exactly the same as(MR226156).`
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_175340.4, NP_780549.1
RefSeq Size:	2308 bp
RefSeq ORF:	1206 bp
Locus ID:	105193
UniProt ID:	Q8BR37
Cytogenetics:	13 A5

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Gene Summary: E3 ubiquitin-protein ligase. Together with the phosphatase EPM2A/laforin, appears to be involved in the clearance of toxic polyglucosan and protein aggregates via multiple pathways. In complex with EPM2A/laforin and HSP70, suppresses the cellular toxicity of misfolded proteins by promoting their degradation through the ubiquitin-proteasome system (UPS). Ubiquitinates the glycogen-targeting protein phosphatase subunits PPP1R3C/PTG and PPP1R3D in a laforin-dependent manner and targets them for proteasome-dependent degradation, thus decreasing glycogen accumulation. Polyubiquitinates EPM2A/laforin and ubiquitinates AGL and targets them for proteasome-dependent degradation. Also promotes proteasome-independent protein degradation through the macroautophagy pathway. [UniProtKB/Swiss-Prot Function]