Product datasheet for RC210875L4V

LONP2 (NM_031490) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	LONP2 (NM_031490) Human Tagged ORF Clone Lentiviral Particle
Symbol:	LONP2
Synonyms:	LONP; LONPL; PLON; PSLON
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_031490
ORF Size:	2556 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC210875).
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_031490.2
RefSeq Size:	4342 bp
RefSeq ORF:	2559 bp
Locus ID:	83752
UniProt ID:	Q86WA8
Cytogenetics:	16q12.1
Domains:	Lon_C, AAA, AAA
Protein Families:	Druggable Genome, Protease

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MW: 94.4 kDa

Gene Summary: In human, peroxisomes function primarily to catalyze fatty acid beta-oxidation and, as a by-product, produce hydrogen peroxide and superoxide. The protein encoded by this gene is an ATP-dependent protease that likely plays a role in maintaining overall peroxisome homeostasis as well as proteolytically degrading peroxisomal proteins damaged by oxidation. The protein has an N-terminal Lon N substrate recognition domain, an ATPase domain, a proteolytic domain, and, in some isoforms, a C-terminal peroxisome targeting sequence. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Jan 2017]