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Product datasheet for RC200359L4V

LONP1 (NM_004793) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	LONP1 (NM_004793) Human Tagged ORF Clone Lentiviral Particle
Symbol:	LONP1
Synonyms:	CODASS; hLON; LON; LonHS; LONP; PIM1; PRSS15
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_004793
ORF Size:	2877 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC200359).
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_004793.2
RefSeq Size:	3221 bp
RefSeq ORF:	2880 bp
Locus ID:	9361
UniProt ID:	P36776
Cytogenetics:	19p13.3
Domains:	LON, AAA, AAA
Protein Families:	Druggable Genome, Protease

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MW: 106.5 kDa

Gene Summary: This gene encodes a mitochondrial matrix protein that belongs to the Lon family of ATP-dependent proteases. This protein mediates the selective degradation of misfolded, unassembled or oxidatively damaged polypeptides in the mitochondrial matrix. It may also have a chaperone function in the assembly of inner membrane protein complexes, and participate in the regulation of mitochondrial gene expression and maintenance of the integrity of the mitochondrial genome. Decreased expression of this gene has been noted in a patient with hereditary spastic paraplegia (PMID:18378094). Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Feb 2013]