

Product datasheet for **MR215882L4V**

Lonp1 (NM_028782) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Lonp1 (NM_028782) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Lonp1
Synonyms:	1200017E13Rik; LON; Prss15
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_028782
ORF Size:	2847 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR215882).
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_028782.2 , NP_083058.2
RefSeq Size:	2970 bp
RefSeq ORF:	2850 bp
Locus ID:	74142
UniProt ID:	Q8CGK3
Cytogenetics:	17 D



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Gene Summary:

ATP-dependent serine protease that mediates the selective degradation of misfolded, unassembled or oxidatively damaged polypeptides as well as certain short-lived regulatory proteins in the mitochondrial matrix. May also have a chaperone function in the assembly of inner membrane protein complexes. Participates in the regulation of mitochondrial gene expression and in the maintenance of the integrity of the mitochondrial genome. Binds to mitochondrial promoters and RNA in a single-stranded, site-specific, and strand-specific manner. May regulate mitochondrial DNA replication and/or gene expression using site-specific, single-stranded DNA binding to target the degradation of regulatory proteins binding to adjacent sites in mitochondrial promoters.[UniProtKB/Swiss-Prot Function]