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Product datasheet for MR220133L4V

Clpx (NM_011802) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Clpx (NM_011802) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Clpx
Synonyms:	AU014732; E330029I21
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_011802
ORF Size:	1902 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR220133).
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_011802.3, NP_035932.2
RefSeq Size:	2851 bp
RefSeq ORF:	1905 bp
Locus ID:	270166
UniProt ID:	Q9JHS4
Cytogenetics:	9 35.22 cM

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Gene Summary: ATP-dependent specificity component of the Clp protease complex. Hydrolyzes ATP. Targets specific substrates for degradation by the Clp complex. Can perform chaperone functions in the absence of CLPP. Enhances the DNA-binding activity of TFAM and is required for maintaining a normal mitochondrial nucleoid structure (PubMed:10347188). ATP-dependent unfoldase that stimulates the incorporation of the pyridoxal phosphate cofactor into 5-aminolevulinate synthase, thereby activating 5-aminolevulinate (ALA) synthesis, the first step in heme biosynthesis. Important for efficient erythropoiesis through upregulation of heme biosynthesis (By similarity).[UniProtKB/Swiss-Prot Function]