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Product datasheet for RC205942L4V

Metallothionein (MT1A) (NM_005946) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Metallothionein (MT1A) (NM_005946) Human Tagged ORF Clone Lentiviral Particle
Symbol:	Metallothionein
Synonyms:	MT-1A; MT-IA; MT1; MT1S; MTC
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_005946
ORF Size:	183 bp
ORF Nucleotide Sequence:	`The ORF insert of this clone is exactly the same as(RC205942).`
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_005946.2
RefSeq Size:	468 bp
RefSeq ORF:	186 bp
Locus ID:	4489
UniProt ID:	P04731
Cytogenetics:	16q13
MW:	6.1 kDa

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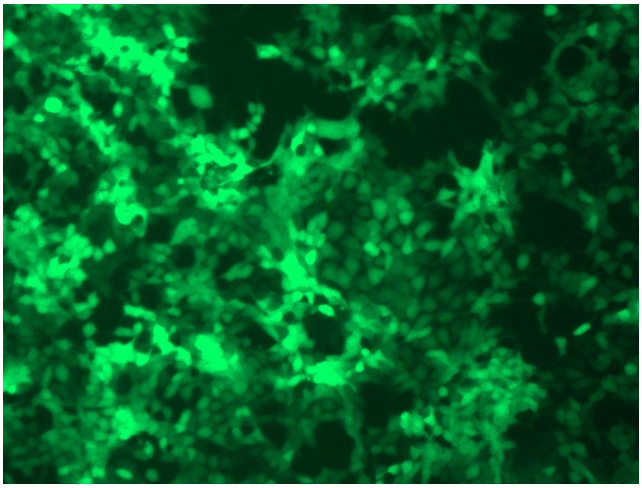
Gene Summary: This gene is a member of the metallothionein family of genes. Proteins encoded by this gene family are low in molecular weight, are cysteine-rich, lack aromatic residues, and bind divalent heavy metal ions. The conserved cysteine residues co-ordinate metal ions using mercaptide linkages. These proteins act as anti-oxidants, protect against hydroxyl free radicals, are important in homeostatic control of metal in the cell, and play a role in detoxification of heavy metals. Disruption of two metallothionein genes in mouse resulted in defects in protection against heavy metals, oxidative stress, immune reactions, carcinogens, and displayed obesity. [provided by RefSeq, Sep 2017]

Product images:



[RC205942L4] was used to prepare Lentiviral particles using [TR30037] packaging kit. HEK293T cells were transduced with RC205942L4V particle to overexpress human MT1A-mGFP fusion protein.