

## Product datasheet for **MR222595L4V**

### Hcrt (NM\_010410) Mouse Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	Hcrt (NM_010410) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Hcrt
Synonyms:	PPOX
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_010410
ORF Size:	393 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR222595).
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. <a href="#">More info</a>
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:	<a href="#">NM_010410.2</a> , <a href="#">NP_034540.1</a>
RefSeq Size:	584 bp
RefSeq ORF:	393 bp
Locus ID:	15171
UniProt ID:	<a href="#">O55241</a>
Cytogenetics:	11 63.6 cM



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**Gene Summary:**

This gene encodes a hypothalamic neuropeptide precursor protein that gives rise to two mature neuropeptides, orexin A and orexin B, by proteolytic processing. Orexin A and orexin B, which bind to orphan G-protein coupled receptors Hcrtr1 and Hcrtr2, function in the regulation of sleep and arousal. This neuropeptide arrangement may also play a role in feeding behavior, metabolism, and homeostasis. [provided by RefSeq, Sep 2015]