

## Product datasheet for **RC200719L2V**

### Cathepsin D (CTSD) (NM\_001909) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	Cathepsin D (CTSD) (NM_001909) Human Tagged ORF Clone Lentiviral Particle
Symbol:	CTSD
Synonyms:	CLN10; CPSD; HEL-S-130P
Mammalian Cell Selection:	None
Vector:	pLenti-C-mGFP (PS100071)
Tag:	mGFP
ACCN:	NM_001909
ORF Size:	1236 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC200719).
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_001909.3</a>
RefSeq Size:	2141 bp
RefSeq ORF:	1239 bp
Locus ID:	1509
UniProt ID:	<a href="#">P07339</a>
Cytogenetics:	11p15.5
Domains:	asp
Protein Families:	Druggable Genome, Protease



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**Protein Pathways:** Lysosome

**MW:** 44.6 kDa

**Gene Summary:** This gene encodes a member of the A1 family of peptidases. The encoded preproprotein is proteolytically processed to generate multiple protein products. These products include the cathepsin D light and heavy chains, which heterodimerize to form the mature enzyme. This enzyme exhibits pepsin-like activity and plays a role in protein turnover and in the proteolytic activation of hormones and growth factors. Mutations in this gene play a causal role in neuronal ceroid lipofuscinosis-10 and may be involved in the pathogenesis of several other diseases, including breast cancer and possibly Alzheimer's disease. [provided by RefSeq, Nov 2015]