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Product datasheet for RC208200L2V

Calpain 7 (CAPN7) (NM_014296) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Calpain 7 (CAPN7) (NM_014296) Human Tagged ORF Clone Lentiviral Particle
Symbol:	Calpain 7
Synonyms:	CALPAIN7; PALBH
Mammalian Cell Selection:	None
Vector:	pLenti-C-mGFP (PS100071)
Tag:	mGFP
ACCN:	NM_014296
ORF Size:	2439 bp
ORF Nucleotide Sequence:	`The ORF insert of this clone is exactly the same as(RC208200).`
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_014296.2
RefSeq Size:	4385 bp
RefSeq ORF:	2442 bp
Locus ID:	23473
UniProt ID:	Q9Y6W3
Cytogenetics:	3p25.1
Domains:	Calpain_III, MIT
Protein Families:	Druggable Genome, Protease

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MW: 92.7 kDa

Gene Summary: Calpains are ubiquitous, well-conserved family of calcium-dependent, cysteine proteases. The calpain proteins are heterodimers consisting of an invariant small subunit and variable large subunits. The large subunit possesses a cysteine protease domain, and both subunits possess calcium-binding domains. Calpains have been implicated in neurodegenerative processes, as their activation can be triggered by calcium influx and oxidative stress. The function of the protein encoded by this gene is not known. An orthologue has been found in mouse but it seems to diverge from other family members. The mouse orthologue is thought to be calcium independent with protease activity. [provided by RefSeq, Jul 2008]