

OriGene Technologies, Inc.

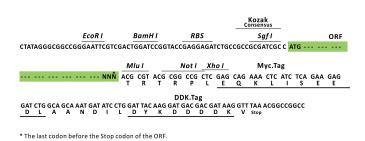
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Product datasheet for RC218364L1

Caspase 1 (CASP1) (NM_033292) Human Tagged Lenti ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Caspase 1 (CASP1) (NM_033292) Human Tagged Lenti ORF Clone
Tag:	Myc-DDK
Symbol:	Caspase 1
Synonyms:	ICE; IL1BC; P45
Mammalian Cell Selection:	None
Vector:	pLenti-C-Myc-DDK (PS100064)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC218364).
Restriction Sites:	Sgfl-Mlul
Cloning Scheme:	
	Cloning sites used for ORF Shuttling:
	Sgf I ORF Mlu I [GCG ATC GC]C <mark>ATG // NNŇ</mark> [ACG CGT]



ACCN: ORF Size: NM_033292 1212 bp



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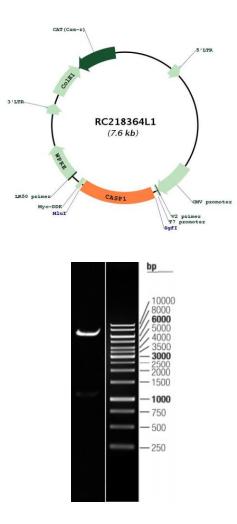
	se 1 (CASP1) (NM_033292) Human Tagged Lenti ORF Clone – RC218364L1
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <u>custsupport@origene.com</u> or by calling 301.340.3188 option 3 for pricing and delivery.
	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. <u>More info</u>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	<u>NM 033292.2</u>
RefSeq Size:	1364 bp
RefSeq ORF:	1215 bp
Locus ID:	834
UniProt ID:	<u>P29466</u>
Cytogenetics:	11q22.3
Domains:	Peptidase_C14, CARD, CASc
Protein Families:	Druggable Genome, Protease
Protein Pathways:	Amyotrophic lateral sclerosis (ALS), Cytosolic DNA-sensing pathway, NOD-like receptor signaling pathway
MW:	45 kDa

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Caspase 1 (CASP1) (NM_033292) Human Tagged Lenti ORF Clone – RC218364L1

Gene Summary:This gene encodes a protein which is a member of the cysteine-aspartic acid protease
(caspase) family. Sequential activation of caspases plays a central role in the execution-phase
of cell apoptosis. Caspases exist as inactive proenzymes which undergo proteolytic
processing at conserved aspartic residues to produce 2 subunits, large and small, that
dimerize to form the active enzyme. This gene was identified by its ability to proteolytically
cleave and activate the inactive precursor of interleukin-1, a cytokine involved in the
processes such as inflammation, septic shock, and wound healing. This gene has been shown
to induce cell apoptosis and may function in various developmental stages. Studies of a
similar gene in mouse suggest a role in the pathogenesis of Huntington disease. Alternative
splicing results in transcript variants encoding distinct isoforms. [provided by RefSeq, Mar
2012]

Product images:



Circular map for RC218364L1

Double digestion of RC218364L1 using Sgfl and Mlul

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