

#### OriGene Technologies, Inc.

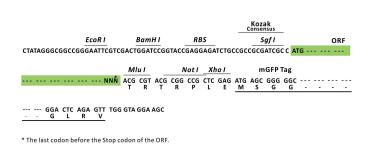
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# Product datasheet for RC204444L4

## Caspase 3 (CASP3) (NM\_032991) Human Tagged Lenti ORF Clone

## **Product data:**

Product Type:	Expression Plasmids
Product Name:	Caspase 3 (CASP3) (NM_032991) Human Tagged Lenti ORF Clone
Tag:	mGFP
Symbol:	Caspase 3
Synonyms:	CPP32; CPP32B; SCA-1
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC204444).
<b>Restriction Sites:</b>	Sgfl-Mlul
Cloning Scheme:	
	Cloning sites used for ORF Shuttling:
	Sgf I         ORF         Mlu I            GCG ATC GC C         ATG //         NNN         ACG CGT



ACCN: ORF Size: NM\_032991 831 bp



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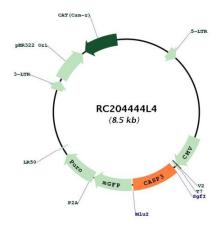
	spase 3 (CASP3) (NM_032991) Human Tagged Lenti ORF Clone – RC204444L4
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the 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 Meth	<ul> <li>od: 1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>5. 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.</li> </ul>
RefSeq:	<u>NM 032991.2, NP 116786.1</u>
RefSeq Size:	2522 bp
RefSeq ORF:	834 bp
Locus ID:	836
UniProt ID:	<u>P42574</u>
Cytogenetics:	4q35.1
Domains:	CASc, ICE_p10, ICE_p20
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Protease
Protein Pathways:	Alzheimer's disease, Amyotrophic lateral sclerosis (ALS), Apoptosis, Colorectal cancer, Epithelial cell signaling in Helicobacter pylori infection, Huntington's disease, MAPK signaling pathway, Natural killer cell mediated cytotoxicity, p53 signaling pathway, Parkinson's disease, Pathways in cancer, Viral myocarditis
MW:	31.6 kDa

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Gene Summary:The protein encoded by this gene is a cysteine-aspartic acid protease that plays a central role<br/>in the execution-phase of cell apoptosis. The encoded protein cleaves and inactivates<br/>poly(ADP-ribose) polymerase while it cleaves and activates sterol regulatory element binding<br/>proteins as well as caspases 6, 7, and 9. This protein itself is processed by caspases 8, 9, and<br/>10. It is the predominant caspase involved in the cleavage of amyloid-beta 4A precursor<br/>protein, which is associated with neuronal death in Alzheimer's disease. [provided by RefSeq,<br/>Aug 2017]

#### **Product images:**



Circular map for RC204444L4

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