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Product datasheet for RC204444L1V

Caspase 3 (CASP3) (NM_032991) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Caspase 3 (CASP3) (NM_032991) Human Tagged ORF Clone Lentiviral Particle
Symbol:	Caspase 3
Synonyms:	CPP32; CPP32B; SCA-1
Mammalian Cell Selection:	None
Vector:	pLenti-C-Myc-DDK (PS100064)
Tag:	Myc-DDK
ACCN:	NM_032991
ORF Size:	831 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC204444).
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_032991.2, NP_116786.1
RefSeq Size:	2522 bp
RefSeq ORF:	834 bp
Locus ID:	836
UniProt ID:	P42574
Cytogenetics:	4q35.1
Domains:	CASc, ICE_p10, ICE_p20
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Protease

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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

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

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