

OriGene Technologies, Inc.

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Product datasheet for RC217090

Caspase 8 (CASP8) (NM_033358) Human Tagged ORF Clone

Product data:

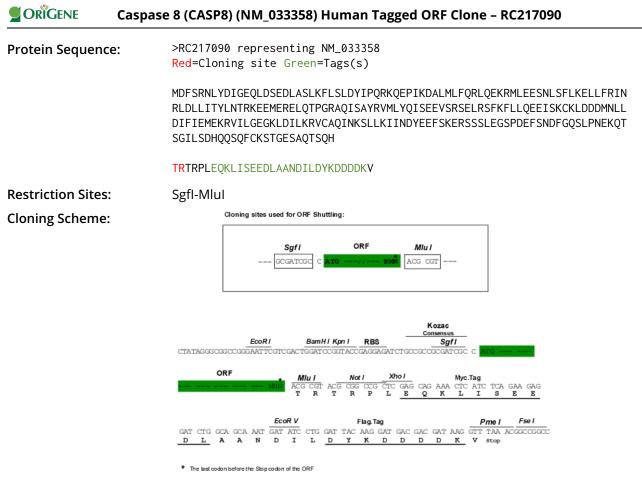
Product Type:	Expression Plasmids
Product Name:	Caspase 8 (CASP8) (NM_033358) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CASP8
Synonyms:	ALPS2B; CAP4; Casp-8; FLICE; MACH; MCH5
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	<pre>>RC217090 representing NM_033358 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAG

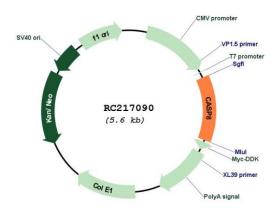
TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC<mark>GCGATCGCC</mark>

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG**GTTTAA**



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ACCN: ORF Size: NM_033358 705 bp

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Plasmid Map:

	Caspase 8 (CASP8) (NM_033358) Human Tagged ORF Clone – RC217090
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. <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 Me	 thod: 1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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.
RefSeq:	<u>NM 033358.4</u>
RefSeq Size:	1123 bp
RefSeq ORF:	708 bp
Locus ID:	841
UniProt ID:	<u>Q14790</u>
Cytogenetics:	2q33.1
Protein Families:	Druggable Genome, Protease
Protein Pathways:	Alzheimer's disease, Apoptosis, Huntington's disease, NOD-like receptor signaling pathway, p53 signaling pathway, Pathways in cancer, RIG-I-like receptor signaling pathway, Toll-like receptor signaling pathway, Viral myocarditis
MW:	27.5 kDa

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GRIGENE Caspase 8 (CASP8) (NM_033358) Human Tagged ORF Clone – RC217090

Gene Summary:This gene encodes 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 composed of a prodomain, a large protease subunit,
and a small protease subunit. Activation of caspases requires proteolytic processing at
conserved internal aspartic residues to generate a heterodimeric enzyme consisting of the
large and small subunits. This protein is involved in the programmed cell death induced by
Fas and various apoptotic stimuli. The N-terminal FADD-like death effector domain of this
protein suggests that it may interact with Fas-interacting protein FADD. This protein was
detected in the insoluble fraction of the affected brain region from Huntington disease
patients but not in those from normal controls, which implicated the role in
neurodegenerative diseases. Many alternatively spliced transcript variants encoding different
isoforms have been described, although not all variants have had their full-length sequences
determined. [provided by RefSeq, Jul 2008]

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