

## Product datasheet for RC216300L3

#### OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

# Caspase 8 (CASP8) (NM\_001080125) Human Tagged Lenti ORF Clone

#### **Product data:**

**Product Type:** Expression Plasmids

Product Name: Caspase 8 (CASP8) (NM\_001080125) Human Tagged Lenti ORF Clone

Tag: Myc-DDK
Symbol: Caspase 8

Synonyms: ALPS2B; CAP4; Casp-8; FLICE; MACH; MCH5

Mammalian Cell Puromycin

Selection:

**Vector:** pLenti-C-Myc-DDK-P2A-Puro (PS100092)

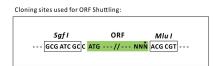
E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clone is exactly the same as(RC216300).

Sequence:

**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:** 



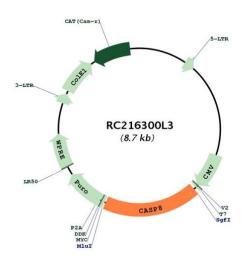


 $<sup>\</sup>ensuremath{^*}$  The last codon before the Stop codon of the ORF.





#### Plasmid Map:



**ACCN:** NM\_001080125

ORF Size: 1614 bp

**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.

**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:** 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:** NM 001080125.1

RefSeq Size: 2938 bp RefSeq ORF: 1617 bp



### Caspase 8 (CASP8) (NM\_001080125) Human Tagged Lenti ORF Clone - RC216300L3

Locus ID: 841

UniProt ID: Q14790

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: 61.7 kDa

**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]