

Product datasheet for MR228947

Casp3 (NM_001284409) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Casp3 (NM_001284409) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Casp3 |
| Synonyms: | A830040C14Rik; AC-; AC-3; Casp; CASP-3; Caspase-3; CC3; CPP; CPP-32; CPP32; Lice; mld; mldy; SCA-1; Ya; Yama |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >MR228947 representing NM_001284409 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGAACAACAAAACCTCAGTGGATTCAAATCCATTAATAATTTGAAGTAAAGACCATACATGGGA
GCAAGTCAGTGGACTCTGGGATCTATCTGGACAGTAGTTACAAAATGGATTATCCTGAAATGGGCATATG
CATAATAATTAATAAAGAAGTCCATAAGAGCACTGGAATGTCATCTCGCTCTGGTACGGATGTGGAC
GCAGCCAACCTCAGAGAGACATTCATGGGCTGAAATACCAAGTCAGGAATAAAAATGATCTTACTCGTG
AAGACATTTTGAATTAATGGATAGTGTCTAAGGAAGATCATAGCAAAGGAGCAGCTTTGTGTGTGT
GATTCTAAGCCATGGTGATGAAGGGTCATTTATGGGACAAATGGGCTGTTGAACTGAAAAAGTTGACT
AGCTTCTTCAGAGCGGACTACTGCCGGAGTCTGACTGGAAGCCGAAACTCTTCATCATTAGGCCTGCC
GGGGTACGGAGCTGGACTGTGGCATTGAGACAGACAGTGGGACTGATGAGGAGATGGCTTCCAGAGAT
ACCGGTGGAGGCTGACTTCTGTATGCTTACTCTACAGCACCTGGTACTATTCTGGAGAAATCAAAG
GACGGGTCGTGGTTCCATCCAGTCCCTTTCAGCATGCTGAAGCTGTACGCGCACAAAGCTAGAATTTATGC
ACATTCTCACTCGGTTAACAGGAAGGTGGCAACGGAAATTCGAGTCTTCTCCCTGGACTCCACTTTCCA
CGCAAAGAAACAGATCCCGTGTATTGTGTCCATGCTCACGAAAGAACTGTACTTTTATCAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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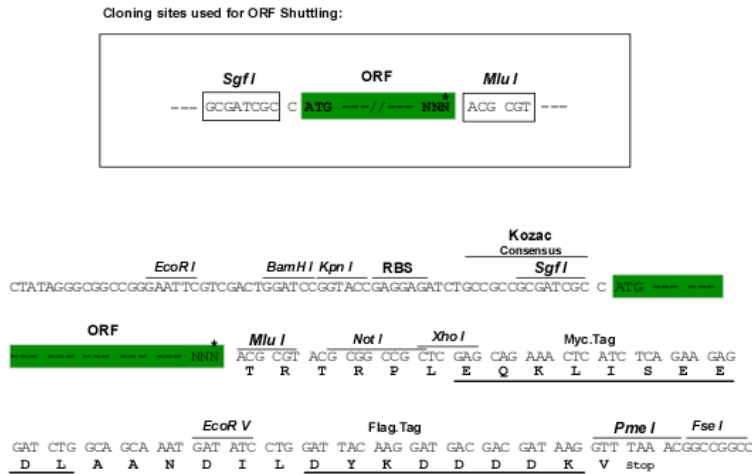
Protein Sequence: >MR228947 representing NM_001284409
Red=Cloning site Green=Tags(s)

MENNKTSVDSKSIINNFVKTIHGSKSVDSGIYLDSSYKMDYPEMGICIIINKNFKHKSTGMSSRSGTDVD
 AANLRETFMGLKYQVRNKNDLTREDILELMDSVSKEDHSKRSSFVCVILSHGDEGVIYGTNGPVELKLT
 SFFRGDYCRSLTGKPKLFI IQACRGTELDCGIETDSGTDEEMACQKIPVEADFLYAYSTAPGYYSWRNSK
 DGSWFIQSLCSMLKLYAHKLEFMHILTRVNRKVATEFESFSLDSTFHAKKQIPCIVSMLTKELYFYH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_001284409

ORF Size: 831 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_001284409.1](#), [NP_001271338.1](#)

RefSeq Size: 2610 bp

RefSeq ORF: 834 bp

Locus ID: 12367

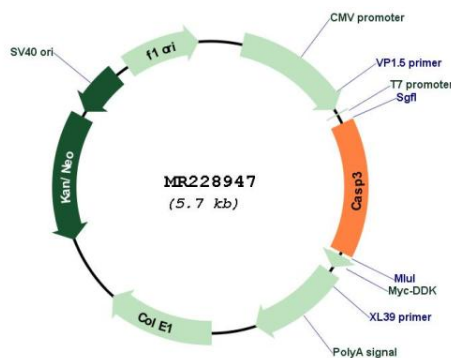
UniProt ID: [P70677](#)

Cytogenetics: 8 26.39 cM

MW: 31.5 kDa

Gene Summary: This gene encodes a protein that belongs to a highly conserved family of cysteinyl aspartate-specific proteases that function as essential regulators of programmed cell death through apoptosis. Members of this family contain an N-terminal pro-domain and require cleavage at specific aspartate residues to become mature. The protein encoded by this gene belongs to a subgroup of cysteinyl aspartate-specific proteases that are activated by initiator caspases and that perform the proteolytic cleavage of apoptotic target proteins. Mice defective for this gene exhibit a variety of phenotypes including reduced neuronal apoptosis resulting in hyperplasias, hearing loss, attenuated osteogenic differentiation of bone marrow stromal stem cells, and pre- and post-natal lethality. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2015]

Product images:



Circular map for MR228947