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Product datasheet for SC331655

Caspase 10 (CASP10) (NM_001206542) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: Caspase 10 (CASP10) (NM_001206542) Human Untagged Clone

Tag: Tag Free

Symbol: Caspase 10

Synonyms: ALPS2; FLICE-2; FLICE2; MCH4

Vector: pCMV6-Entry (PS100001)

Fully Sequenced ORF:

>SC331655 representing NM_001206542.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

ATGAAATCTCAAGGTCAACATTGGTATTCCAGTTCAGATAAAAACTGTAAAGTGAGCTTTCGTGAGAAG
CTTCTGATTATTGATTCAAACCTGGGGGTCCAAGATGTGGAGAACCTCAAGTTTCTCTGCATAGGATTG
GTCCCCAACAAGAAGCTGGAGAAGTCCAGCTCAGCCTCAGATGTTTTTGAACATCTCTTGGCAGAGGAT
CTGCTGAGTGAGGAAGACCCTTTCTTCCTGGCAGAACTCCTCTATATCATACGGCAGAAGAAGCTGCTG
CAGCACCTCAACTGTACCAAAGAGGAAGTGGAGCGACTGCTGCCCACCCGACAAAGGGTTTCTCTGTTT
AGAAACCTGCTCTACGAACTGTCAGAAGGCATTGACTCAGAGAACTTAAAGGACATGATCTTCCTTCTG
AAAGACTCGCTTCCCAAAACTGAAATGACCTCCCTAAGTTTCCTGGCATTTCTAGAGAAACAAGGTAAA
ATAGATGAAGATAATCTGACATGCCTGGAGGACCTCTGCAAAACAGTTGTACCTAAACTTTTGAGAAAC
ATAGAGAAATACAAAAGAGAGAAAGCTATCCAGATAGTGACACCTCCTGTAGACAAGGAAGCCGAGTCG
TATCAAGGAGAGGAAGAACTAGTTTCCCAAACAGATGTTAAGACATTCTTGGAAGCCTTACCGAGGGCA
GCTGTGTACAGGATGAATCGGAACCACAGAGGCCTCTGTGTCATTGTCAACAACCACAGCTTTACCTCC
CTGAAGGACAGACAAGGAACCCATAAAGATGCTGAGATCCTGAGTCATGTGTTCCAGTGGCTTGGGTTC
ACAGTGCATATACACAATAATGTGACGAAAGTGGAAATGGAGATGGTCCTGCAGAAGCAGAAGTGCAAT
CCAGCCCATGCCGACGGGGACTGCTTCGTGTTCTGTATTCTGACCCATGGGAGATTTGGAGCTGTCTAC
TCTTCGGATGAGGCCCTCATTCCCATTCGGGAGATCATGTCTCACTTCACAGCCCTGCAGTGCCCTAGA
CTGGCTGAAAAACCTAAACTCTTTTTCATCCAGGCCTGCCAAGGTGAAGAGATACAGCCTTCCGTATCC
ATCGAAGCAGATGCTCTGAACCCTGAGCAGGCACCCACTTCCCTGCAGGACAGTATTCCTGCCGAGGCT
GACTTCCTACTTGGTCTGGCCACTGTCCCAGGCTATGTATCCTTTCGGCATGTGGAGGAAGGCAGCTGG
TATATTCAGTCTCTGTGTAATCATCTGAAGAAATTGGTCCCAAGGATGCTGAAATTTCTGGAAAAGACA
ATGGAAATCAGGGGCAGGAAGAGAACAGTGTGGGGTGCTAAACAGATCTCAGCAACCTCCCTGCCCACG
GCCATCTCTGCGCAGACACCTCGACCCCCCATGCGCAGGTGGAGCAGCGTTTCCTAG

Restriction Sites: SgfI-MluI

ACCN: NM_001206542

Insert Size: 1437 bp

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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_001206542.1
RefSeq Size:	2178 bp
RefSeq ORF:	1437 bp
Locus ID:	843
UniProt ID:	Q92851
Cytogenetics:	2q33.1
Protein Families:	Druggable Genome, Protease
Protein Pathways:	Apoptosis, RIG-I-like receptor signaling pathway
MW:	54.5 kDa
Gene Summary:	This gene encodes a protein which is 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 which undergo proteolytic processing at conserved aspartic residues to produce two subunits, large and small, that dimerize to form the active enzyme. This protein cleaves and activates caspases 3 and 7, and the protein itself is processed by caspase 8. Mutations in this gene are associated with type IIA autoimmune lymphoproliferative syndrome, non-Hodgkin lymphoma and gastric cancer. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Apr 2011] Transcript Variant: This variant (5) lacks two in-frame coding exons and contains an alternate 3' terminal exon compared to variant 1. This results in a shorter isoform (5) missing an internal protein segment and with a distinct C-terminus compared to isoform 1.