CFLAR cDNA Clone – CASP8 and FADD-Like Apoptosis Regulator (Human)

PRODUCT OVERVIEW

Product Name	CFLAR, cDNA Clone
Full Product Name	CFLAR cDNA Clone
Product Gene Name	CFLAR cdna clone
Sequence	atgtctgctg aagtcatcca tcaggttgaa gaagcacttg atacagatga gaaggagatg ctgctctttt tgtgccggga tgttgctata gatgtggttc cacctaatgt cagggacctt ctggatattt tacgggaaag aggtaagctg tctgtcgggg acttggctga actgctctac agagtgaggc gatttgacct gctcaaacgt atcttgaaga tggacagaaa agctgtggag acccacctgc tcaggaaccc tcaccttgtt tcggactata gagtgctgat ggcagagatt ggtgaggatt tggataaatc tgatgtgtcc tcattaattt tcctcatgaa ggattacatg ggccgaggca agataagcaa ggagaagagt ttcttggacc ttgtggttga gttggagaaa ctaaatctgg ttgccccaga tcaactggat ttattagaaa aatgcctaaa gaacatccac agaatagacc tgaagacaaa aatccagaag tacaagcagt ctgttcaagg agcagggaca agttacagga atgttctcca agcagcaatc caaaagagtc tcaaggatcc ttcaaataac ttcaggctcc ataatgggag aagtaaagaa caaagactta aggaacagct tggcgctcaa caagaaccag tgaagaaatc cattcaggaa tcagaagctt ttttgcctca gagcatacct gaagagagat acaagatgaa gagcaagccc ctaggaatct gcctgataat cgattgcatt ggcaatgaga cagagcttct tcgagacacc ttcacttccc tgggctatga agtccagaaa ttcttgcatc tcagtatgca tggtatatcc cagattcttg gccaatttgc ctgtatgccc gagcaccgag actacgacag ctttgtgtgt gtcctggtga gccgaggagg ctcccagagt gtgtatggtg tggatcagac tcactcaggg ctccccctgc atcacatcag gaggatgttc atgggagatt catgccctta tctagcaggg aagccaaaga tgttttttat tcagaactat gtggtgtcag agggccagct ggaggacagc agcctcttgg aggtggatgg gccagcgatg aagaatgtgg aattcaaggc tcagaagcga gggctgtgca cagttcaccg agaagctgac ttcttctgga gcctgtgtac tgcggacatg tccctgctgg agcagtctca cagctcacca tccctgtacc tgcagtgcct ctcccagaaa ctgagacaag aaagaaaacg cccactcctg gatcttcaca ttgaactcaa tggctacatg tatgattgga acagcagagt ttctgccaag gagaaatatt atgtctggct gcagcacact ctgagaaaga aacttatcct ctcctacaca taa
Molecular Weight	44,112 Da
OMIM	603599
Vector	pENTR223.1 or pUC
Clone Sequence Report	Provided with product shipment
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for CFLAR cdna clone	MBS1270088 is a cDNA clone targeting CFLAR.
Other Notes	Small volumes of CFLAR cdna clone vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CFLAR. It may not necessarily be applicable to this product.

NCBI GI #	12804400
NCBI GeneID	8837
NCBI Accession #	BC001602
UniProt Secondary Accession #	O14673; O14674; O14675; O15137; O15138; O15356; O15510; O43618; O43619; B4DJE0; B7Z9F9
UniProt Related Accession #	O15519
NCBI Official Full Name	Homo sapiens CASP8 and FADD-like apoptosis regulator, mRNA
NCBI Official Synonym Full Names	CASP8 and FADD like apoptosis regulator
NCBI Official Symbol	CFLAR

NCBI Official Synonym Symbols	CASH; FLIP; MRIT; CLARP; FLAME; Casper; FLAME1; c-FLIP; FLAME-1; I-FLICE; c-FLIPL; c-FLIPR; c-FLIPS; CASP8AP1
UniProt Protein Name	CASP8 and FADD-like apoptosis regulator
UniProt Synonym Protein Names	Caspase homolog; CASH
Protein Family	CASP8 and FADD-like apoptosis regulator
UniProt Gene Name	CFLAR
UniProt Synonym Gene Names	CASH; CASP8AP1; CLARP; MRIT; CASH; Casper; CLARP; c-FLIP; FLAME-1; I-FLICE; MRIT
UniProt Entry Name	CFLAR_HUMAN
NCBI Protein Information	CASP8 and FADD-like apoptosis regulator
NCBI Summary for CFLAR	The protein encoded by this gene is a regulator of apoptosis and is structurally similar to caspase-8. However, the encoded protein lacks caspase activity and appears to be itself cleaved into two peptides by caspase-8. Several transcript variants encoding different isoforms have been found for this gene, and partial evidence for several more variants exists. [provided by RefSeq, Feb 2011]
UniProt Comments for CFLAR	CFLAR: Apoptosis regulator protein which may function as a crucial link between cell survival and cell death pathways in mammalian cells. Acts as an inhibitor of TNFRSF6 mediated apoptosis. A proteolytic fragment (p43) is likely retained in the death-inducing signaling complex (DISC) thereby blocking further recruitment and processing of caspase-8 at the complex. Full length and shorter isoforms have been shown either to induce apoptosis or to reduce TNFRSF-triggered apoptosis. Lacks enzymatic (caspase) activity. TNFRSF6 stimulation triggers recruitment to the death- inducing signaling complex (DISC) formed by TNFRSF6, FADD and caspase-8. A proteolytic fragment (p43) stays associated with the DISC. Also interacts with caspase-10, caspase-3, TRAF1, TRAF2 and Bcl-X(L) (in vitro). Interacts with HBV protein X. Repressed by IL2/interleukin-2 after TCR stimulation, during progression to the S phase of the cell cycle. Widely expressed. Higher expression in skeletal muscle, pancreas, heart, kidney, placenta, and peripheral blood leukocytes. Also detected in diverse cell lines. Isoform 8 is predominantly expressed in testis and skeletal muscle. Belongs to the peptidase C14A family. 14 isoforms of the human protein are produced by alternative splicing. Protein type: Apoptosis Chromosomal Location of Human Ortholog: 2q33-q34 Cellular Component: cytoplasm; cytosol Molecular Function: enzyme activator activity; protease binding; protein binding Biological Process: activation of NF-kappaB transcription factor; apoptosis; negative regulation of apoptosis; positive regulation of I-kappaB kinase/NF-kappaB cascade; regulation of satellite cell proliferation; skeletal muscle atrophy; skeletal muscle development; skeletal muscle regeneration; skeletal myofibril assembly
Research Articles on CFLAR	**1.** This conservation of IKK activation among the cFLIP family using different mechanisms suggests that the mechanism plays a critical role in their function.
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