THAP1 cDNA Clone – THAP Domain Containing, Apoptosis Associated Protein 1 (Human)

PRODUCT OVERVIEW

Product Name	THAP1, cDNA Clone
Full Product Name	THAP1 cDNA Clone
Product Gene Name	THAP1 cdna clone
Sequence	atggtgcagt cctgctccgc ctacggctgc aagaaccgct acgacaagga caagcccgtt tctttccaca agtttcctct tactcgaccc agtctttgta aagaatggga ggcagctgtc agaagaaaaa actttaaacc caccaagtat agcagtattt gttcagagca ctttactcca gactgcttta agagagagtg caacaacaag ttactgaaag agaatgctgt gcccacaata tttctttgta ctgagccaca tgacaagaaa gaagatcttc tggagccaca ggaacagctt cccccacctc ctttaccgcc tcctgtttcc caggttgatg ctgctattgg attactaatg ccgcctcttc agacccctgt taatctctca gttttctgtg accacaacta tactgtggag gatacaatgc accagcggaa aaggattcat cagctagaac agcaagttga aaaactcaga aagaagctca agaccgcaca gcagcgatgc agaaggcaag aacggcagct tgaaaaatta aaggaggttg ttcacttcca gaaagagaaa gacgacgtat cagaaagagg ttatgtgatt ctaccaaatg actactttga aatagttgaa gtaccagcat aa
Molecular Weight	6,493 Da
OMIM	602629
Vector	pENTR223.1
Clone Sequence Report	Provided with product shipment
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for THAP1 cdna clone	MBS1278737 is a cDNA clone targeting THAP1.
Other Notes	Small volumes of THAP1 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 THAP1. It may not necessarily be applicable to this product.

NCBI GI #	34191036
NCBI GeneID	55145
NCBI Accession #	BC021721
UniProt Secondary Accession #	Q53FQ1; Q6IA99; A6NCB6; D3DSY5; H9KV49
UniProt Related Accession #	Q9NVV9
NCBI Official Full Name	Homo sapiens THAP domain containing, apoptosis associated protein 1, mRNA
NCBI Official Synonym Full Names	THAP domain containing 1
NCBI Official Symbol	THAP1
NCBI Official Synonym Symbols	DYT6
UniProt Protein Name	THAP domain-containing protein 1
Protein Family	THAP domain-containing protein
UniProt Gene Name	THAP1
UniProt Entry Name	THAP1_HUMAN

NCBI Protein Information	THAP domain-containing protein 1
NCBI Summary for THAP1	The protein encoded by this gene contains a THAP domain, a conserved DNA-binding domain. This protein colocalizes with the apoptosis response protein PAWR/PAR-4 in promyelocytic leukemia (PML) nuclear bodies, and functions as a proapoptotic factor that links PAWR to PML nuclear bodies. Alternatively spliced transcript variants encoding distinct isoforms have been observed. [provided by RefSeq, Jul 2008]
UniProt Comments for THAP1	THAP1: DNA-binding transcription regulator that regulates endothelial cell proliferation and G1/S cell-cycle progression. Specifically binds the 5'-[AT]NTNN[GT]GGCA[AGT]-3' core DNA sequence and acts by modulating expression of pRB-E2F cell-cycle target genes, including RRM1. Component of a THAP1/THAP3-HCFC1-OGT complex that is required for the regulation of the transcriptional activity of RRM1. May also have pro-apoptopic activity by potentiating both serum-withdrawal and TNF-induced apoptosis. Defects in THAP1 are the cause of dystonia type 6 (DYT6). DYT6 is a primary torsion dystonia. Dystonia is defined by the presence of sustained involuntary muscle contractions, often leading to abnormal postures. Dystonia type 6 is characterized by onset in early adulthood, cranial or cervical involvement in about half of the cases, and frequent progression to involve multiple body regions. Belongs to the THAP1 family. Protein type: DNA-binding; Cell cycle regulation; Transcription factor Chromosomal Location of Human Ortholog: 8p11.21 Cellular Component: intracellular membrane-bound organelle; nucleolus; nucleus Molecular Function: identical protein binding; protein binding; sequence-specific DNA binding; zinc ion binding Biological Process: endothelial cell proliferation; regulation of mitotic cell cycle; regulation of transcription, DNA-dependent; transcription, DNA-dependent Disease: Dystonia 6, Torsion
Research Articles on THAP1	**1.** findings strongly suggest the role of other genetic factors or environmental triggers in the pathogenesis of dystonia related to mutations in THAP1 gene.
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