TARDBP cDNA Clone – TAR DNA Binding Protein (Human)

PRODUCT OVERVIEW

Product Name	TARDBP, cDNA Clone
Full Product Name	TARDBP cDNA Clone
Product Gene Name	TARDBP cdna clone
Sequence	atgtctgaat atattcgggt aaccgaagat gagaacgatg agcccattga aataccatcg gaagacgatg ggacggtgct gctctccacg gttacagccc agtttccagg ggcgtgtggg cttcgctaca ggaatccagt gtctcagtgt atgagaggtg tccggctggt agaaggaatt ctgcatgccc cagatgctgg ctggggaaat ctggtgtatg ttgtcaacta tccaaaagat aacaaaagaa aaatggatga gacagatgct tcatcagcag tgaaagtgaa aagagcagtc cagaaaacat ccgatttaat agtgttgggt ctcccatgga aaacaaccga acaggacctg aaagagtatt ttagtacctt tggagaagtt cttatggtgc aggtcaagaa agatcttaag actggtcatt caaaggggtt tggctttgtt cgttttacgg aatatgaaac acaagtgaaa gtaatgtcac agcgacatat gatagatgga cgatggtgtg actgcaaact tcctaattct aagcaaagcc aagatgagcc tttgagaagc agaaaagtgt ttgtggggcg ctgtacagag gacatgactg aggatgagct gcgggagttc ttctctcagt acggggatgt gatggatgtc ttcatcccca agccattcag ggcctttgcc tttgttacat ttgcagatga tcagattgcg cagtctcttt gtggagagga cttgatcatt aaaggaatca gcgttcatat atccaatgcc gaacctaagc acaatagcaa tagacagtta gaaagaagtg gaagatttgg tggtaatcca ggtggctttg ggaatcaggg tggatttggt aatagcagag ggggtggagc tggtttggga aacaatcaag gtagtaatat gggtggtggg atgaactttg gtgcgttcag cattaatcca gccatgatgg ctgccgccca ggcagcacta cagagcagtt ggggtatgat gggcatgtta gccagccagc agaaccagtc aggcccatcg ggtaataacc aaaaccaagg caacatgcag agggagccaa accaggcctt cggttctgga aataactctt atagtggctc taattctggt gcagcaattg gttggggatc agcatccaat gcagggtcgg gcagtggttt taatggaggc tttggctcaa gcatggattc taagtcttct ggctggggaa tgtag
Molecular Weight	31,808 Da
OMIM	605078
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 TARDBP cdna clone	MBS1268491 is a cDNA clone targeting TARDBP.
Other Notes	Small volumes of TARDBP 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 TARDBP. It may not necessarily be applicable to this product.

NCBI GI #	47939519
NCBI GeneID	23435
NCBI Accession #	BC071657
UniProt Secondary Accession #	Q53H27; Q6FI92; Q96DJ0; A4GUK4; A4GUK5; A4GUK6; B2R629; B4DJ45; E2PU12
UniProt Related Accession #	Q13148
NCBI Official Full Name	Homo sapiens TAR DNA binding protein, mRNA
NCBI Official Synonym Full Names	TAR DNA binding protein
NCBI Official Symbol	TARDBP
NCBI Official Synonym Symbols	ALS10; TDP-43

UniProt Protein Name	TAR DNA-binding protein 43
Protein Family	TAR DNA-binding protein
UniProt Gene Name	TARDBP
UniProt Synonym Gene Names	TDP43; TDP-43
UniProt Entry Name	TADBP_HUMAN
NCBI Protein Information	TAR DNA-binding protein 43
NCBI Summary for TARDBP	HIV-1, the causative agent of acquired immunodeficiency syndrome (AIDS), contains an RNA genome that produces a chromosomally integrated DNA during the replicative cycle. Activation of HIV-1 gene expression by the transactivator Tat is dependent on an RNA regulatory element (TAR) located downstream of the transcription initiation site. The protein encoded by this gene is a transcriptional repressor that binds to chromosomally integrated TAR DNA and represses HIV-1 transcription. In addition, this protein regulates alternate splicing of the CFTR gene. A similar pseudogene is present on chromosome 20. [provided by RefSeq, Jul 2008]
UniProt Comments for TARDBP	TARDBP: DNA and RNA-binding protein which regulates transcription and splicing. Involved in the regulation of CFTR splicing. It promotes CFTR exon 9 skipping by binding to the UG repeated motifs in the polymorphic region near the 3'-splice site of this exon. The resulting aberrant splicing is associated with pathological features typical of cystic fibrosis. May also be involved in microRNA biogenesis, apoptosis and cell division. Can repress HIV-1 transcription by binding to the HIV-1 long terminal repeat. Stabilizes the low molecular weight neurofilament (NFL) mRNA through a direct interaction with the 3' UTR. Homodimer. Binds specifically to pyrimidine-rich motifs of TAR DNA and to single stranded TG repeated sequences. Binds to RNA, specifically to UG repeated sequences with a minimun of six contiguous repeats. Interacts with ATNX2; the interaction is RNA-dependent. Ubiquitously expressed. In particular, expression is high in pancreas, placenta, lung, genital tract and spleen. 3 isoforms of the human protein are produced by alternative splicing. Protein type: RNA-binding Chromosomal Location of Human Ortholog: 1p36.22 Cellular Component: nucleoplasm; nucleus Molecular Function: double-stranded DNA binding; identical protein binding; mRNA 3'-UTR binding; protein binding; RNA binding; transcription factor activity Biological Process: negative regulation of protein amino acid phosphorylation; nuclear fragmentation during apoptosis; regulation of cell cycle; RNA splicing Disease: Amyotrophic Lateral Sclerosis 10, With Or Without Frontotemporal Dementia
Research Articles on TARDBP	**1.** results support a model whereby dFMRP can modulate the neurotoxicity caused by TDP-43 overexpression
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