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Product datasheet for SC115570

TDP43 (TARDBP) (NM_007375) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TDP43 (TARDBP) (NM_007375) Human Untagged Clone
Tag:	Tag Free
Symbol:	TDP43
Synonyms:	ALS10; TDP-43
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC115570 sequence for NM_007375 edited (data generated by NextGen Sequencing)

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ATGTCTGAATATATTCGGGTAACCGAAGATGAGAACGATGAGCCCATTGAAATACCATCG
GAAGACGATGGGACGGTGCTGCTCTCCACGGTTACAGCCCAGTTTCCAGGGGCGTGTGGG
CTTCGCTACAGGAATCCAGTGTCTCAGTGTATGAGAGGTGTCCGGCTGGTAGAAGGAATT
CTGCATGCCCCAGATGCTGGCTGGGGAAATCTGGTGTATGTTGTCAACTATCCAAAAGAT
AACAAAAGAAAAATGGATGAGACAGATGCTTCATCAGCAGTGAAAGTGAAAAGAGCAGTC
CAGAAAACATCCGATTTAATAGTGTTGGGTCTCCCATGGAAAACAACCGAACAGGACCTG
AAAGAGTATTTTAGTACCTTTGGAGAAGTTCTTATGGTGCAGGTCAAGAAAGATCTTAAG
ACTGGTCATTCAAAGGGGTTTGGCTTTGTTCGTTTTACGGAATATGAAACACAAGTGAAA
GTAATGTCACAGCGACATATGATAGATGGACGATGGTGTGACTGCAAACTTCCTAATTCT
AAGCAAAGCCAAGATGAGCCTTTGAGAAGCAGAAAAGTGTTTGTGGGGCGCTGTACAGAG
GACATGACTGAGGATGAGCTGCGGGAGTTCTTCTCTCAGTACGGGGATGTGATGGATGTC
TTCATCCCCAAGCCATTCAGGGCCTTTGCCTTTGTTACATTTGCAGATGATCAGATTGCG
CAGTCTCTTTGTGGAGAGGACTTGATCATTAAAGGAATCAGCGTTCATATATCCAATGCC
GAACCTAAGCACAATAGCAATAGACAGTTAGAAAGAAGTGGAAGATTTGGTGGTAATCCA
GGTGGCTTTGGGAATCAGGGTGGATTTGGTAATAGCAGAGGGGGTGGAGCTGGTTTGGGA
AACAATCAAGGTAGTAATATGGGTGGTGGGATGAACTTTGGTGCGTTCAGCATTAATCCA
GCCATGATGGCTGCCGCCCAGGCAGCACTACAGAGCAGTTGGGGTATGATGGGCATGTTA
GCCAGCCAGCAGAACCAGTCAGGCCCATCGGGTAATAACCAAAACCAAGGCAACATGCAG
AAGGAGCCAAACCAGGCCTTCGGTTCTGGAAATAACTCTTATAGTGGCTCTAATTCTGGT
GCAGCAATTGGTTGGGGATCAGCATCCAATGCAGGGTCGGGCAGTGGTTTTAATGGAGGC
TTTGGCTCAAGCATGGATTCTAAGTCTTCTGGCTGGGGAATGTAG

Clone variation with respect to NM_007375.3
1082 g=>a
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_007375 unedited
NGTTAAATTTGTATACACTCCTATAGGCGGCCGCGCAATTCGCACGAGGGTCGGGCTTCC
CACACGGCCTACGGGAAAGTAAAAGAGTCTGAATATATTCGGGTAACCGAAGAGAGAACG
ATGAGCCCATTGAAATACCATCGGAAGACGATGGGACGGTGCTGCTCTCCACGGTTACAG
CCCAGTTTCCAGGGGCGTGTGGGCTTCGCTACAGGAATCCAGTGTCTCAGTGTATGAGAG
GTGTCCGGCTGGTAGAAGGAATTCTGCATGCCCCAGATGCTGGCTGGGGAAATCTGGTGT
ATGTTGTCAACTATCCAAAAGATAACAAAAGAAAAATGGATGAGACAGATGCTTCATCAG
CAGTGAAAGTGAAAAGAGCAGTCCAGAAAACATCCGATTTAATAGTGTTGGGTCTCCCAT
GGAAAACAACCGAACAGGACCTGAAAGAGTATTTTAGTACCTTTGGAGAAGTTCTTATGG
TGCAGGTCAAGAAAGATCTTAAGACTGGTCATTCAAAGGGGTTTGGCTTTGTTCGTTTTA
CGGAATATGAAACACAAGTGAAAGTAATGTCACAGCGACATATGATAGATGGACGATGGT
GTGACTGCAAACTTCCTAATTCTAAGCAAAGCCAAGATGAGCCTTTGAGAAGCAGAAAAG
TGTTTGTGGGGCGCTGTACAGAGGACATGACTGAGGATGAGCTGCGGGAGTTCTTCTCTC
AGTACGGNGATGTGATGGATGTCTTCATCCCCAAGCCATTCAGGGCCTTTGCCTTTGTTA
CATTTGCAGATGATCAGATTGCGCAGTCTCTTTGTGGAGAGGACTTGATCATTAAGGAAT
CAGCGTTCATTATCCCATGCCGAACCCTAGCACAATAGCATAGAAGTTAGAAAGAGTGGA
AGATTNGTG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_007375 unedited
GGCACGCAATCTAGTATCGAGTTTTTTTTTTTTTTTTTATTTAAATCAGTTTTATTTAA
GAATTTCCAACAATGACAACTCTTATAAAAAGCATCCAAGCACAGGACACAGAACTGCAG
CAAACAGCATTCTTATGGGTAGCTAACAGACATTAGAACTTCCACCCTTCTTTGAGACAC
CTGAGCTCACTGGTGAACTCTGCTTCAAGTCCTCCTGCAAAGCACACCACAAGCTCAGTC
CATGTTCTCAGCCCATCAGCTTCAGTTCACATTGCCACACTTACATATCAGTAACAGAAG
AGAACACACACCATACAGCATTCACAGCAGTTGACAAAGGGGTAGGGGGAGTACAAGTAT
CATTTCACTTAACACATTCATCTAATGTGGGTTATCTAAGAACAAAAACTCACTTAAAAG
TCTTCCAACAGATGTGGATGTCCTTTGAATGCAAAAAACATTCGTACATTATTTGCTATC
ATTGCTCTCTGCACACTCTCTCACCAAAGCCACAGGATTGAGAGACACATCTCGCCAAGT
TAAAAAATATCCATTATGCACCACCAAGTCTCTGCACGCGCTCTCTCCTTTTCTCGCTCA
TACTAGCCTTTCATGCCTCGGCACCACCATCAATCCCACACAAGGTTTCAAAAGTTCAGA
CAGCCTTCTGGTTCCATATCACAGCCTTGCGTTCATAGCGTTGATACGACTCCATGAAAT
ANAGAGTAGCGGATAAAAATGGGACACCCACCGTCAAAGACGCGGCCTGTGATGCGTGAT
GACGAATTCTTGATGAGAAAGCTTAGACAGTATCCTATGCAGATATTACACACTACTTCA
TGAGNNGCTCCCATAACATTGAATGAAGACTGCGAGATAAGAAGCTCTATGACTTTGGTT
GAGGAGACAGGTAAACAACAAGACAACTGGCACTGAC

Restriction Sites: NotI-NotI

ACCN: NM_007375

Insert Size: 3110 bp

OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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
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_007375.3, NP_031401.1
RefSeq Size:	4236 bp
RefSeq ORF:	1245 bp
Locus ID:	23435
UniProt ID:	Q13148
Cytogenetics:	1p36.22
Domains:	RRM
Protein Families:	Transcription Factors
Gene Summary:	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]