

Product datasheet for RC210639

TDP43 (TARDBP) (NM_007375) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TDP43 (TARDBP) (NM_007375) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TDP43
Synonyms:	ALS10; TDP-43
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC210639 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTGAATATATTCGGGTAACCGAAGATGAGAACGATGAGCCATTGAAATACCATCGGAAGACGATG
GGACGGTCTGCTCTCCACGGTTACAGCCAGTTTCCAGGGCGTGTGGGCTTCGCTACAGGAATCCAGT
GTCTCAGTGTATGAGAGGTGCCGGCTGGTAGAAGGAATCTGCATGCCCCAGATGCTGGCTGGGAAAT
CTGGTGTATGTTGCAACTATCCAAAAGATAACAAAAGAAAAATGGATGAGACAGATGCTTCATCAGCAG
TGAAAGTGAAGAGCAGTCCAGAAAACATCCGATTTAATAGTGTGGGTCTCCATGGAACAACCGA
ACAGGACCTGAAAGAGTATTTTAGTACCTTTGGAGAAGTCTTATGGTGCAGGTCAAGAAAGATCTTAAG
ACTGGTCAATCAAGGGGTTGGCTTTGTTGCTTTACGGAATATGAAACACAAGTGAAGTAATGTCAC
AGCGACATATGATAGATGGACGATGGTGTGACTGCAAACCTCCTAATTCTAAGCAAAGCCAAGATGAGCC
TTTGAGAAGCAGAAAAGTGTGGTGGGGCGCTGTACAGAGGACATGACTGAGGATGAGCTGCGGGAGTTC
TTCTCTCAGTACGGGGATGTGATGGATGTCTTCATCCCCAAGCCATTGAGGGCTTTGCCTTTGTTACAT
TTGCAGATGATCAGATTGCGCAGTCTCTTTGGGAGAGGACTTGATCATTAAAGGAATCAGCGTTCATAT
ATCCAATGCCAACCTAAGCACAATAGCAATAGACAGTTAGAAAGAAGTGAAGATTTGGTGGTAATCCA
GGTGGCTTTGGGAATCAGGGTGGATTTGGTAATAGCAGAGGGGGTGGAGCTGGTTTGGGAACAATCAAG
GTAGTAATATGGGTGGTGGGATGAACTTTGGTGGGTTTCAGCATTAAATCCAGCCATGATGGCTGCCGCCA
GGCAGCACTACAGAGCAGTTGGGTATGATGGGCATGTTAGCCAGCCAGCAGAACCAGTCAAGGCCATCG
GGTAATAACCAAAACCAAGGCAACATGCAGAGGGAGCCAAACCAGGCCTTCGGTCTGGAATAACTCTT
ATAGTGGCTCAATTCTGGTGCAGCAATTGGTTGGGGATCAGCATCCAATGCAGGGTCGGGCAGTGGTTT
TAATGGAGGCTTTGGCTCAAGCATGGATTCTAAGTCTTCTGGCTGGGGAATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC210639 protein sequence
Red=Cloning site Green=Tags(s)

MSEYIRVTEDENDIEIPSEDDGTVLLSTVTAQFFPGACGLRYRNPVSQCMRGVRLVEGILHAPDAGWGN
 LVVVVNYPKDNKRKMDDETASSAVKVKRAVQKTSDLIVLGLPWKTEQDLKEYFSTFGEVLMVQVKDLK
 TGHSKGFVRFTEYETQVKVMSQRHMIDGRWCCKLPNSKQSQDEPLRSRKVFVGRCTEDMTEDELREF
 FSQYGDVMDVFIKPFRAFVTFADDQIAQSLCGEDLIIKGISVHISNAEPKHNSNRQLERSGRFGGNP
 GGFNQGGFGNSRGGGAGLGNNQGSNMGGGMNFAGSINPAMMAAAQAALQSSWGMGMLASQQNQSGPS
 GNNQNQGNMQREPNQAFGSGNNSYSGSNSGAAIGWGSASNAGSGSGFNGGFGSSMDSKSSGWGM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6003_f12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_007375

ORF Size: 1242 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_007375.4](#)

RefSeq Size: 4236 bp

RefSeq ORF: 1245 bp

Locus ID: 23435

UniProt ID: [Q13148](#)

Cytogenetics: 1p36.22

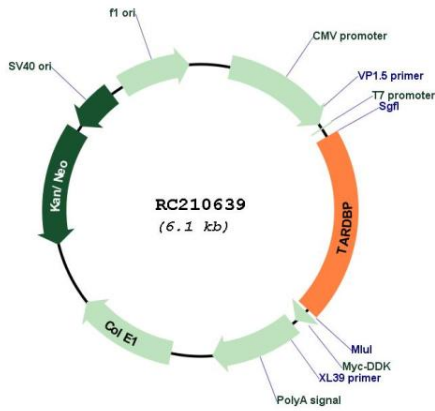
Domains: RRM

Protein Families: Transcription Factors

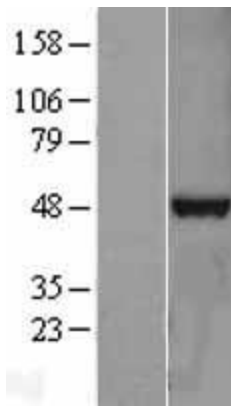
MW: 44.7 kDa

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]

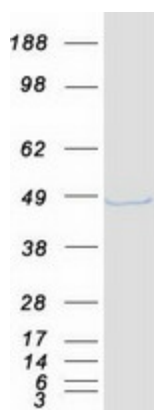
Product images:



Circular map for RC210639



Western blot validation of overexpression lysate (Cat# [LY402137]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210639 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TARDBP protein (Cat# [TP310639]). The protein was produced from HEK293T cells transfected with TARDBP cDNA clone (Cat# RC210639) using MegaTran 2.0 (Cat# [TT210002]).