

Product datasheet for **SC322765**

TDP43 (TARDBP) (NM_007375) Human Untagged Clone

Product data:

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|---------------------------|---|
| 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: | Neomycin |
| Vector: | pCMV6-AC (PS100020) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | >SC322765 representing NM_007375. Blue=Insert sequence Red=Cloning site Green=Tag(s) |

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ATGTCTGAATATATTCGGGTAACCGAAGATGAGAACGATGAGCCATTGAAATACCATCGGAAGACGAT
GGGACGGTGTCTCCACGGTTACAGCCAGTTTCCAGGGCGTGTGGCTTCGCTACAGGAATCCA
GTGTCTCAGTGTATGAGAGGTGTCCGGCTGGTAGAAGGAATTCTGCATGCCCCAGATGCTGGCTGGGGA
AATCTGGTGTATGTTGTCAACTATCCAAAAGATAACAAAAGAAAATGGATGAGACAGATGCTTCATCA
GCAGTGAAAGTAAAAGAGCAGTCCAGAAAACATCCGATTTAATAGTGTGGGTCTCCCATGAAAAACA
ACCGAACAGGACCTGAAAGAGTATTTTAGTACCTTTGGAGAAGTTCTTATGGTGCAGGTCAAGAAAGAT
CTTAAGACTGGTCATTCAAAGGGGTTTGGCTTTGTTTCGTTTACGGAATATGAAACACAAGTAAAGTA
ATGTCACAGCGACATATGATAGATGGACGATGGTGTGACTGCAAACCTCCTAATTCTAAGCAAAGCCAA
GATGAGCCTTTGAGAAGCAGAAAAGTGTGTTGGGGCGCTGTACAGAGGACATGACTGAGGATGAGCTG
CGGGAGTTCTTCTCAGTACGGGGATGTGATGGATGTCTTCATCCCAAGCCATTCAGGGCCTTTGCC
TTTGTTACATTTGCAGATGATCAGATTGCGCAGTCTTTTGTGGAGAGGACTTGATCATTAAAGGAATC
AGCGTTTATATCCAATGCCGAACCTAAGCACAATAGCAATAGACAGTTAGAAAAGTGGAAAGATTT
GGTGGTAAATCCAGGTGGCTTTGGGAATCAGGGTGGATTTGGTAATAGCAGAGGGGGTGGAGCTGTTTG
GGAAACAATCAAGGTAGTAATAATGGGTGGTGGGATGAACCTTTGGTGCCTCAGCATTAAATCCAGCCATG
ATGGCTGCCGCCAGGCAGCACTACAGAGCAGTTGGGGTATGATGGGCATGTTAGCCAGCCAGCAGAAC
CAGTCAGGCCCATCGGGTAATAACCAAAACCAAGGCAACATGCAGAGGGAGCCAAACCAGGCCTTCGGT
TCTGAAAATAACTCTTATAGTGGCTCTAATTCTGGTGCAGCAATTGGTTGGGGATCAGCATCCAATGCA
GGGTCGGGCAGTGGTTTTAATGGAGGCTTTGGCTCAAGCATGGATTCTAAGTCTTCTGGCTGGGAATG
TAG

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|--------------------|------------|
| Restriction Sites: | RsrII-NotI |
| ACCN: | NM_007375 |
| Insert Size: | 1245 bp |



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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](#)

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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](#)

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]