

Product datasheet for **RG210639**

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:	TurboGFP
Symbol:	TARDBP
Synonyms:	ALS10; TDP-43
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210639 representing NM_007375 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTGAATATATTCGGGTAACCGAAGATGAGAACGATGAGCCATTGAAATACCATCGGAAGACGATG
GGACGGTCTGCTCTCCACGGTTACAGCCAGTTTCCAGGGCGTGTGGGCTTCGCTACAGGAATCCAGT
GTCTCAGTGTATGAGAGGTGCCGGCTGGTAGAAGGAATTCGCATGCCCCAGATGCTGGCTGGGAAAT
CTGGTGTATGTTGTCAACTATCCAAAAGATAACAAAAGAAAAATGGATGAGACAGATGCTTCATCAGCAG
TGAAAGTGAAAAGAGCAGTCCAGAAAACATCCGATTTAATAGTGTGGGTCTCCATGAAAACAACCGA
ACAGGACCTGAAAGAGTATTTAGTACCTTTGGAGAAGTCTTATGGTGCAGGTCAAGAAAGATCTTAAG
ACTGGTCATTCAAAGGGTTTGGCTTTGTTTCGTTTTACGGAATATGAAACACAAGTGAAAGTAATGTCAC
AGCGACATATGATAGATGGACGATGGTGTGACTGCAAACCTTCTAATTCTAAGCAAAGCCAAGATGAGCC
TTTGAGAAGCAGAAAAGTGTGGTGGGGCGCTGTACAGAGGACATGACTGAGGATGAGCTGCGGGAGTTC
TTCTCTCAGTACGGGATGTGATGGATGTCTTCATCCCAAGCCATTGAGGCTTTGCCTTTGTTACAT
TTGCAGATGATCAGATTGCCAGTCTCTTTGGGAGAGGACTTGATCATTAAAGGAATCAGCGTTCATAT
ATCCAATGCCAACCTAAGCACAATAGCAATAGACAGTTAGAAAGAAGTGAAGATTTGGTGGTAATCCA
GGTGGCTTTGGGAATCAGGGTGGATTTGGTAATAGCAGAGGGGGTGGAGCTGGTTTGGGAACAATCAAG
GTAGTAATATGGGTGGTGGATGAACTTTGGTGGGTTTCAGCATTAAATCCAGCCATGATGGCTGCCGCCA
GGCAGCACTACAGAGCAGTTGGGTATGATGGGCATGTTAGCCAGCCAGCAGAACCAGTCAAGCCCATCG
GGTAATAACCAAAACCAAGGCAACATGCAGAGGGAGCCAAACCAGGCCTTCGGTCTGGAATAACTCTT
ATAGTGGCTCTAATTCTGGTGCAGCAATTGGTTGGGGATCAGCATCCAATGCAGGGTCGGGCAGTGGTTT
TAATGGAGGCTTTGGCTCAAGCATGGATTCTAAGTCTTCTGGCTGGGGAATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG210639 representing NM_007375
 Red=Cloning site Green=Tags(s)

MSEYIRVTEDEENDEPIEIPSEDDGTVLLSTVTAQFFPGACGLRYRNPVSQCMRGVRLVEGILHAPDAGWGN
 LVYVVVNPYKDNKRKMDETDASSAVKVKRAVQKTSIDLIVLGLPWKTTQDLKEYFSTFGEVLMVQVKDLK
 TGHSKGFVRFTEYETQVKVMSQRHMIDGRWDCCKLPNSKQSQDEPLRSRKVFVGRCTEDMTEDELREF
 FSQYGDVMDVFIKPPFAFAFVTFADDQIAQSLCGEDLIIKGISVHISNAEPKHNSNRQLERSGRFGGNP
 GGFQNGGFGNSRGGAGLGNNQGSNMGGGMNF GAF SINPAMMAAQAALQSSWGMGMGLASQQNQSGPS
 GNNQNQGNMQREPNQAFGSGNNSYSGSNSGAAIGWGSASNAGSGSGFNNGFGSSMDSKSSGWGM

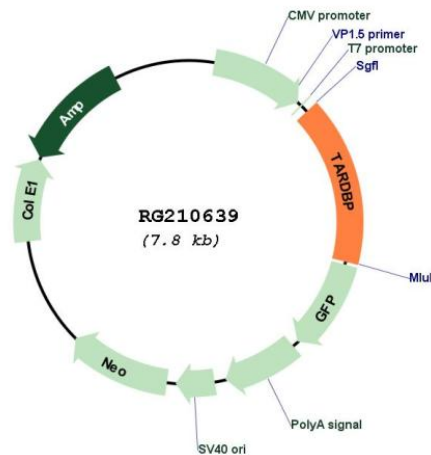
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



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:	<ol style="list-style-type: none">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_007375.4
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]