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Product datasheet for MC201952

Tardbp (NM_001003899) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tardbp (NM_001003899) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tardbp
Synonyms:	1190002A23Rik; C85084; TDP-43; Tdp43
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>BC027105 sequence for NM_001003899
CGGAGCGGTAGCGCGGCTGTTGTCGGATTCCTTCCCGTCTGTGCTTCCTCCTTGTGCTTCCTAGCAGTGG
CCTAGCGGAGATTTAAGCAAAGATGTCTGAATATATTCGGGTAACAGAAGATGAGAACGATGAACCCATT
GAAATACCATCAGAAGACGATGGGACGGTGTTGCTGTCCACAGTTACAGCCCAGTTTCCAGGGGCATGCG
GCCTGCGCTACCGGAATCCCGTGTCTCAGTGTATGAGAGGAGTCCGACTGGTGGAAGGAATTCTGCATGC
CCCAGATGCTGGCTGGGGCAATCTGGTATATGTTGTCAACTATCCCAAAGATAACAAAAGGAAAATGGAT
GAGACAGATGCTTCCTCTGCAGTGAAAGTGAAAAGAGCAGTCCAGAAAACATCTGACCTCATAGTGTTGG
GTCTCCCCTGGAAAACAACTGAGCAGGATCTGAAAGACTATTTCAGTACTTTTGGAGAGGTTCTTATGGT
TCAGGTCAAGAAAGATCTTAAAACTGGTCACTCGAAAGGGTTTGGCTTTGTTCGATTTACAGAATATGAA
ACCCAAGTGAAAGTAATGTCACAACGACATATGATAGATGGGCGATGGTGTGACTGTAAACTTCCCAACT
CTAAGCAAAGCCCAGACGAGCCTTTGAGAAGCAGAAAGGTGTTTGTTGGACGTTGTACAGAGGACATGAC
TGCTGAAGAGCTTCAGCAGTTTTTCTGTCAGTATGGAGAAGTGGTAGATGTCTTCATTCCCAAACCATTC
AGAGCTTTTGCCTTCGTCACCTTTGCAGATGATAAGGTTGCCCAGTCTCTTTGTGGAGAGGATTTGATCA
TTAAAGGAATCAGCGTGCATATATCCAATGCTGAACCTAAGCATAATAGCAATAGACAGTTAGAAAGAAG
TGGAAGATTTGGTGTTCATCTCATTTCAAATGTTTATGGAAGAAGCACTTCATTGAAAGTAGTGCTGTAA
ATATTCTGCCATAGGAATACTTCTGTCTACATGCTTTCTCATCCAAGAATTCGTCATCACGCTGCACAGG
CTGCGTCTTTGACGGTGGGTGTTCCATTTTTATCCGCTACTCTTTATTTCATGGAGTCGTATCAACGCTA
TGAACGCAAGGCTGTGATATGGAACCAGAAGGCTGTTTGAACTTTTGAAACCTTGTGTGGGATTGATGGT
GGTGCCGAGGCATGAAAGGCTAGTATGAGCGAGAAAAGGAGAGCGCGTGCAGAGACTTGGTGGTGGAAAA
TGGATATTTTTTAACTTGGAGAGATGTGTCACTCAATCCTGTGGCTTTGGTGAGAGAGTGTGCAGAGAGC
AATGATAGCAAATAACGTACGAATGTTTTACATCAAAGGACATCCACATCAGTTGGAAGACTTTGAGTTT
TGTTCTTAGGAAACCCACTTTAGTTGAATGTGTTAAGTGAAATACTTGTACTTCCCTCCCCCTCTGTCAA
CTGCTGTGAATGCTGTATGGTGTGTGTTCTCCTCTGTTACTGATCTGGAAGTGTGGGAACGTGAACTGAA
GCTGATGGGCTGCGAACATGGACTGAGCTTGTGGTGTGCTTTGCAGGAGAACTTGGAAGCAGAGTTCACC
AGTGAGCTCAGGTGTCTCAAAGAAGGGTGGAAGTTCTCATGTCTGTTAGCTATTCATAAGAATGCTGTTT
GCTGCAGTTCTGTGTCCTGTGCTTGGATGCTTTTTTATAAGAGTTGTCATTGTTGGAAATTCTTAAATAA
AACTGATTTAAATAATATGTGTCTTTGTTTTGCAGCCCTGAATGCAAAGAATTCATAGCAGTTAATTCCC
CTTTTTGACCCTTTTGAGATGGAACTTTCATAAAGTTTCTTGGCAGTAGTTTATTTTGCTTCAAATAAAC
TTATTTGAAAAGTTAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_001003899

Insert Size: 888 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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:	BC027105, AAH27105
RefSeq Size:	1933 bp
RefSeq ORF:	888 bp
Locus ID:	230908
UniProt ID:	Q921F2
Cytogenetics:	4 E2
Gene Summary:	RNA-binding protein that is involved in various steps of RNA biogenesis and processing. Preferentially binds, via its two RNA recognition motifs RRM1 and RRM2, to GU-repeats on RNA molecules predominantly localized within long introns and in the 3' UTR of mRNAs. In turn, regulates the splicing of many non-coding and protein-coding RNAs including proteins involved in neuronal survival, as well as mRNAs that encode proteins relevant for neurodegenerative diseases. Plays a role in maintaining mitochondrial homeostasis by regulating the processing of mitochondrial transcripts. Regulates also mRNA stability by recruiting CNOT7/CAF1 deadenylase on mRNA 3' UTR leading to poly(A) tail deadenylation and thus shortening. In response to oxidative insult, associates with stalled ribosomes localized to stress granules (SGs) and contributes to cell survival. Participates also in the normal skeletal muscle formation and regeneration, forming cytoplasmic myo-granules and binding mRNAs that encode sarcomeric proteins. Plays a role in the maintenance of the circadian clock periodicity via stabilization of the CRY1 and CRY2 proteins in a FBXL3-dependent manner (PubMed:27123980).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (3) uses alternate splice sites in the 3' coding region and differs in the 3' UTR compared to variant 1. It encodes isoform 3, which has a shorter and distinct C-terminus compared to isoform 1.