

Product datasheet for MR206534

Tardbp (NM_145556) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tardbp (NM_145556) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tardbp
Synonyms:	1190002A23Rik; C85084; TDP-43; Tdp43
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206534 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTGAATATATTCGGGTAACAGAAGATGAGAACGATGAACCCATTGAAATACCATCAGAAGACGATG
GGACGGTGTGCTGTCCACAGTTACAGCCAGTTTCCAGGGGCATGCGGCCTGCGCTACCGGAATCCCGT
GTCTCAGTGTATGAGAGGAGTCCGACTGGTGAAGGAATTCTGCATGCCCCAGATGCTGGCTGGGGCAAT
CTGGTATATGTTGCAACTATCCCAAAGATAACAAAAGGAAAATGGATGAGACAGATGCTTCTCTGCAG
TGAAAGTGAAGAGCAGTCCAGAAAACATCTGACCTCATAGTGTGGGTCTCCCCTGGAACAACACTGA
GCAGGATCTGAAAGACTATTTTCAGTACTTTTGGAGAGGTTCTTATGGTTCAGGTCAAGAAAGATCTTAA
ACTGGTCACTCGAAAGGTTTGGCTTTGTTTCGATTTACAGAATATGAAACCAAGTGAAGTAATGTCAC
AACGACATATGATAGATGGGCGATGGTGTGACTGTAAACTTCCCAACTCTAAGCAAAGCCAGACGAGCC
TTTGAGAAGCAGAAAGGTGTTTGGTGGACGTTGTACAGAGGACATGACTGCTGAAGAGCTTCAGCAGTTT
TTCTGTCAGTATGGAGAAGTGGTAGATGTCTTCATTCCAAACCATTTCAGAGCTTTTGCCTTCGTCACCT
TTGCAGATGATAAGGTTGCCAGTCTCTTTGGGAGAGGATTTGATCATTAAAGGAATCAGCGTGCATAT
ATCCAATGCTGAACCTAAGCATAATAGCAATAGACAGTTAGAAAGAAGTGAAGATTTGGTGGTAATCCA
GGTGGCTTTGGGAATCAGGGTGGGTTTGGTAACAGTAGAGGGGGTGGAGCTGGCTTGGGAAATAACCAGG
GTGGTAATATGGGTGGAGGGATGAACTTTGGTGTCTTTAGCATTAAACCAGCGATGATGGCTGCGGCTCA
GGCAGCGTTGCAGAGCAGTTGGGTATGATGGGCATGTTAGCCAGCCAGCAGAACCAGTCGGGCCCATCT
GGGAATAACCAAAGCCAGGGCAGCATGCAGAGGGAACCAATCAGGCTTTTGGTCTGGAATAATTCTCT
ACAGTGGTTCTAATTCTGGTGCCCCCTTGGTTGGGGTTCAGCATCAAATGCAGGATCGGGCAGTGGTTT
TAATGGGGCTTTGGCTCGAGCATGGATTCTAAGTCTTCTGGCTGGGGAATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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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_145556.4](#)

RefSeq Size: 7454 bp

RefSeq ORF: 1245 bp

Locus ID: 230908

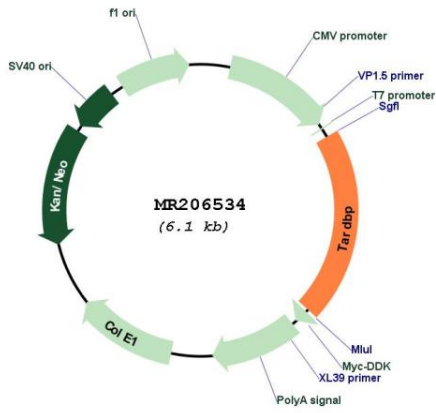
UniProt ID: [Q921F2](#)

Cytogenetics: 4 E2

MW: 44.5 kDa

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]

Product images:



Circular map for MR206534