

Product datasheet for MC201138

Tor1a (NM_144884) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tor1a (NM_144884) Mouse Untagged Clone
Tag: Tag Free
Symbol: Tor1a
Synonyms: DQ2; Dyt1; torsinA
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC017683 sequence for NM_144884
 CCCACGCGTCCGGTGGTGGCGCGCAAGGTGCGCGGGTCCGGTTATGAAGCTTGGCCGGGCCGCTCTGGC
 CCTGCTGCTGCTGGCGCGTGGTGGTTCGTGCGGTGGAGCCCATCAGCCTGAGTCTGGCCCTGGCCGGC
 GTACTCACCACCTATATCTCCTACCCTCGTCTCTACTGCCTCTTCGCCGAGTGCTGCGGCCAGATGCGGA
 GCCTCAGCCGGGAGGCGCTGCAGAAAGTCTGGATAACAAGCTCTTTGGACAGCATCTTGCAAAAAAAGT
 CATCCTAAACGCCGTGTCTGGTTTCTAAGCAACCCGAAGCCCAAGAAGCCCTTACCCTCTCTCTGCAC
 GGGTGGACGGGACCGGCAAAAACTTCGCCAGCAAGATCATCGCGGAGAATATTTACGAGGGCGGACTGA
 ACAGTGACTATGTACACCTGTTTGTGGCCACGCTACACTTCCCCACGCCTTAACATCACACAGTATAA
 GGACCAGTTACAGATGTGGATCAGAGGCAACGTGAGCGCCTGTGCTCGCTCCATCTTCATCTTTGATGAG
 ATGGACAAGATGCATGCCGGCCTCATCGACGCCATCAAGCCTTTCCTAGACTATTACGATGTGGTAGATG
 AGGTCTCCTATCAGAAAGCCATCTTCATCTTCTCAGCAATGCAGGGGCAGAGAGGATCACAGACGTGGC
 TCTGGATTTCTGGAAGTGGGAAGCAGAGGGAAGAAATCAAGCTCAGAGACATGGAGCCCGCCCTGGCC
 GTGTCGGTCTTCAATAACAAGAACAGTGCTTCTGGCACAGCAGCCTCATTGACCGGAACCTCATAGATT
 ATTTTGTCCCCTTCTGCCCCTGGAGTACAAGCACCTGAAAATGTGCATCAGAGTGGAGATGCAGTCCC
 AGGCTATGAAGTAGATGAGGACATCATCAGCAAGGTAGCGGAAGAGATGACGTTCTTCCCAAGGAGGAG
 AAGGTCTTCTCTGACAAGGGCTGCAAGACTGTGTTTACCAAGCTGGACTACTACCTGGATGACTGAGGCC
 GGCTGCCAGGGCTGTGTGAGTCCGCTCCTCCCCAGAAGAGGCTTGGACACTTCTGCTGAGGTTAGCGGG
 AGAATCCTGTTTCTGCTCCTCAGAGCCTGCAGGTGACCGCGCTGTAGGGACCACAGATGCAACATGGACC
 TGAAGCTCCTGGAGCCTCCAGAGATGAAAGCAGCTCCCAGCATTCTGGACTTGTGATTTTTTAAAAATTA
 TGTTTTAATTTACAGGTGTTTCTGTTTTGAGGCAGAACAAGTAAGTTTTACTGCAAAATGTGATAACGTTTT
 ATTTAAAATGTTTTTAATACTATAAGAAGCTTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI
ACCN: NM_144884
Insert Size: 1002 bp



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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:	<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:	BC017683 , AAH17683
RefSeq Size:	1397 bp
RefSeq ORF:	1002 bp
Locus ID:	30931
UniProt ID:	Q9ER39
Cytogenetics:	2 B
Gene Summary:	Protein with chaperone functions important for the control of protein folding, processing, stability and localization as well as for the reduction of misfolded protein aggregates. Involved in the regulation of synaptic vesicle recycling, controls STON2 protein stability in collaboration with the COP9 signalosome complex (CSN). In the nucleus, may link the cytoskeleton with the nuclear envelope, this mechanism seems to be crucial for the control of nuclear polarity, cell movement and, specifically in neurons, nuclear envelope integrity. Participates in the cellular trafficking and may regulate the subcellular location of multipass membrane proteins such as the dopamine transporter SLC6A3, leading to the modulation of dopamine neurotransmission. In the endoplasmic reticulum, plays a role in the quality control of protein folding by increasing clearance of misfolded proteins such as SGCE variants or holding them in an intermediate state for proper refolding. May have a redundant function with TOR1B in non-neural tissues.[UniProtKB/Swiss-Prot Function]