

Product datasheet for **MC221216**

Daxx (NM_007829) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Daxx (NM_007829) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Daxx
Synonyms:	MGC150289
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC221216 representing NM_007829
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCCACCGATGACAGCATCTTGTACTTGTATGATGACGATGAAGATGAAGCTGCTCAACAGGGC
 CCTCCAACCTACCCCAATCCTGCCTCAACAGGACCTGGTCTGGCCTGTCTCAACAGGCCACTGGTCT
 CTCGAGCCCGTGTGGATGGAGGGAGCAGTAACCTCCGGTAGTAGGAAGTGTACAAAGTTGGATAATGAG
 AAGCTCTTTGAAGAGTTCCTTGAAGTGTGAAGACGGAGACATCAGACCACCTGAGGTGGTTCCGTTC
 TCCACAACTGCAGCAGCGTGCCAGTCTGTGTTCTGGCCTCTGCAGAGTCTGCAACATCCTCTCCAG
 GGTTCGGCTCGGTCTCGGAAGCGGCCGCTAAGATCTATGTGTACATTAACGAGCTCTGCACTGTTCTT
 AAAGTCACTCCATCAAGAAGAAGTTGAAGTCTAGCTCTGCAGCCTCAACGACCAGTGGAGCGTCGGGCC
 CTAAACCTCCCACAGAGCCCTCTGACCTTACAAACTGAAAACACTGCCTCTGAGGCCCAAGGAC
 TCGCGGTTCCCGAGGCAGATCCAGCGCTGGAGCAGCTGCTGGCACTGTACGTAGCCGAGATTCGCGCG
 CTGCAGGAGAAGGAGTTGGACCTGTGAGAGCTGGATGACCCAGACTCCTCGTATTTGCAGGAGGCCCGCT
 TGAAGAGGAAGTTGATCCGCCTCTTCGGGCGGTTGTGTGAGTTGAAGGACTGCTCTTCTGACGGGGCG
 GGTATAGAGCAGCGAATTCGTACCGAGGCACCCGGTACCCAGAGGTCAACAGGCGCATTGAACGGCTC
 ATTAACAAGCCGGGGCTGGACACCTTCCCGATTATGGAGATGTGCTGAGAGCCGTGGAGAAGGCGGCGA
 CCCGGCACAGCCTGGGCTTCCCAGACAGCAGCTTCAAGTCTCTGGCTCAGGATGCCTTCCGGGACGTGGG
 CGTCAGGTTACAGGAGCGGCGCCACCTGGATCTCATCTACAATTTGGCTGTACCTCACAGATGACTAT
 AGGCCAGGCGTTGACCCGCACTGTCTGATCCCACATTTGGCTCGCCGCTTCCGGAAAATCGAACCTTG
 CCATGAACCGGCTGGATGAGGTCATCTCAAGTATGCAATGATGCAAGACAAGACTGAGGAGGGCGAGAG
 ACAGAAGAGACGAGCCCGCTCTTAGGACCCGCCCAACCTTACAGACCCCAAGCCTCCTCGGAA
 TCTGGTGAAGGCTCTAGCGGAATGGCATCCCAGGAGTGCCTACTACCTCAAAGCTGAGACTGATGATG
 ACGATGATGACGATGATGATGACGACGACGAAGATAACGAGGAAAGTGAAGGAGGAGGAGGAGGAAGA
 GGAGGAGAAAGAGGCTACTGAAGATGAAGATGAGGATCTAGAAGAGTTGCAGGAAGATCAGGGGGTGT
 GAAGAAGAGGAAGGAGGAGATAATGAAGGAAATGAGAGTCCCACATCGCCTTCAAGCTTTTCCATAGAA
 GGAATTCAGAGCCTGCAGAAGGGCTCAGGACCCCGAGGGGCAGCAAAGAGAGGACTGACAGAGACCCC
 AGCATCCCGCCAGGGGCATCCCTGGACCTCCCAGCACTGACGCTGAGAGCAGTGGAGAGCAGCTCCTC
 GAGCCGCTCCTGGGAGACGAGAGTCTGTGTCAGCTCGCTGAGCTAGAGATGGAAGCTTTGCCTGAGG
 AAAGGGACATTTCTCCTCCAGGAAAAGTCGGAAGATTCCTCCCAACATCTTGAAAATGGGGCAGC
 TGTGGTTACCTCTACATCTGTAATGGGCGTGTCTTCTCACACTTGGAGAGATGCCAGTCCCCCAGC
 AAGAGATTTCCGGAAGAAAAGAAGCAACTGGGCTCTGGACTGTTAGGAAACAGCTATATAAAGAACCGA
 TGGCACAGCAGGACAGTGGGAGAACACAAGTGTCCAGCCTATGCCATCCCCCCTTGGCCTCTGTGGC
 TTCTGTGCTGATTCTCCACAAGGGTGGACTCTCCAGCCATGAACTGGTGACCAGCTCTCTGTGCAGC
 CCTTCTCCATCCTGCTTCTCCAGACACCCAGGCTCAGTCTCTCCGGCAGTGTATTTATAAGACCAGTG
 TGGCCACACAGTCCGACCCGAGGAGATCATCGTGCTTTCAGACTCTGATAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_007829

Insert Size: 2223 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:	<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:	<u>NM_007829.4</u> , <u>NP_031855.3</u>
RefSeq Size:	2598 bp
RefSeq ORF:	2223 bp
Locus ID:	13163
UniProt ID:	<u>O35613</u>
Cytogenetics:	17 17.98 cM

Gene Summary:

Transcription corepressor known to repress transcriptional potential of several sumoylated transcription factors. Down-regulates basal and activated transcription. Its transcription repressor activity is modulated by recruiting it to subnuclear compartments like the nucleolus or PML/POD/ND10 nuclear bodies through interactions with MCSR1 and PML, respectively. Seems to regulate transcription in PML/POD/ND10 nuclear bodies together with PML and may influence TNFRSF6-dependent apoptosis thereby. Inhibits transcriptional activation of PAX3 and ETS1 through direct protein-protein interactions. Modulates PAX5 activity; the function seems to involve CREBBP. Acts as an adapter protein in a MDM2-DAXX-USP7 complex by regulating the RING-finger E3 ligase MDM2 ubiquitination activity. Under non-stress condition, in association with the deubiquitinating USP7, prevents MDM2 self-ubiquitination and enhances the intrinsic E3 ligase activity of MDM2 towards TP53, thereby promoting TP53 ubiquitination and subsequent proteasomal degradation. Upon DNA damage, its association with MDM2 and USP7 is disrupted, resulting in increased MDM2 autoubiquitination and consequently, MDM2 degradation, which leads to TP53 stabilization. Acts as histone chaperone that facilitates deposition of histone H3.3. Acts as targeting component of the chromatin remodeling complex ATRX:DAXX which has ATP-dependent DNA translocase activity and catalyzes the replication-independent deposition of histone H3.3 in pericentric DNA repeats outside S-phase and telomeres, and the in vitro remodeling of H3.3-containing nucleosomes. Does not affect the ATPase activity of ATRX but alleviates its transcription repression activity. Upon neuronal activation associates with regulatory elements of selected immediate early genes where it promotes deposition of histone H3.3 which may be linked to transcriptional induction of these genes. Required for the recruitment of histone H3.3:H4 dimers to PML-nuclear bodies (PML-NBs); the process is independent of ATRX and facilitated by ASF1A; PML-NBs are suggested to function as regulatory sites for the incorporation of newly synthesized histone H3.3 into chromatin. Proposed to mediate activation of the JNK pathway and apoptosis via MAP3K5 in response to signaling from TNFRSF6 and TGFBR2. Interaction with HSPB1/HSP27 may prevent interaction with TNFRSF6 and MAP3K5 and block DAXX-mediated apoptosis. In contrast, in lymphoid cells JNK activation and TNFRSF6-mediated apoptosis may not involve DAXX. Plays a role as a positive regulator of the heat shock transcription factor HSF1 activity during the stress protein response (By similarity).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Both variants 1 and 2 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.