

Product datasheet for MC212229

Atxn3 (NM_029705) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Atxn3 (NM_029705) Mouse Untagged Clone
Tag: Tag Free
Symbol: Atxn3
Synonyms: 2210008M02Rik; AI463012; AI647473; ataxin-3; ATX3; Mjd; MJD1; Sca3
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC212229 representing NM_029705
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGTCCATCTCCACGAGAAACAAGAAGGCTCACTTTGTGCTCAGCATTGCCTGAATAACCTATTGC
 AAGGAGAGTATTTAGCCCTGTGGAGCTATCCTCAATTGCACACCAGCTGGATGAAGAGGAGAGGCTGAG
 AATGGCAGAAGGGGGAGTCACTAGTGAAGACTACCGCACATTTTACAGCAGCCTTCTGGAAATATGGAT
 GACAGCGGCTTTTCTCTATTCAAGTTATAAGCAATGCTTTGAAAGTTTGGGGTTTGAAGTAACTAATCCTGT
 TCAACAGTCCAGAGTACCAGAGGCTCAGAATTGATCCTATAAACGAAAGATCCTTTATATGCAATTATAA
 AGAACACTGGTTTACAGTTAGAAAATTAGGCAAGCAGTGGTTAACTTGAATTCTCTGTTGACGGGTCCA
 GAATTAATATCAGATACATACCTCGCACTATTCTTGGCTCAATTACAGCAAGAAGTTATTCTATATTTG
 TTGTTAAGGGTGATCTGCCAGATTGTGAAGCTGACCAACTTTTGCAGATGATCAAGGTCCAACAGATGCA
 TCGACAAAACCTATTGGAGAGGAACCTGCACATCTGAAAGAGCAGAGTGCCTCAAAGCAGACCTGGAG
 CGCGTCTTAGAAGCAGCTGATGGGTCCGGCATATTTGATGAAGATGAGGATGATTTACAGAGGGCTCTAG
 CCATAAGTCCAGGAAATCGACATGGAGGATGAAGAAGCTGATCTCCGAGGGCCATTCAGCTCAGTAT
 GCAAGGTAGTCCAGAAGTATGTGTGAAAATAGTCCACAGACATCAAGTCCAGATCTCTTTCAGAAGAG
 CTGCGGAGGAGACGAGAAGCCTACTTTGAAAAGCAACAGCAGCAGCAGCAGGAGGTAGACCGACCTGGAC
 CCCTTTTATATCCACGTGAAAGACCGACCAAGTTTCAGGAGGACGTAGGAGCGACCAAGGAGGCGACGC
 TGTGAGTGAAGAGGACATGCTTCGGGCAGCTGTGACCATGTCTTTAGAACTGCTAAAGACAACCTTGAAA
 GCAGAAAGAAAAAATAG

ACGGTACGGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_029705



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Insert Size:	1068 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_029705.3</u> , <u>NP_083981.2</u>
RefSeq Size:	5376 bp
RefSeq ORF:	1068 bp
Locus ID:	110616
UniProt ID:	<u>Q9CVD2</u>
Cytogenetics:	12 E
Gene Summary:	<p>Deubiquitinating enzyme involved in protein homeostasis maintenance, transcription, cytoskeleton regulation, myogenesis and degradation of misfolded chaperone substrates (By similarity). Binds long polyubiquitin chains and trims them, while it has weak or no activity against chains of 4 or less ubiquitins (By similarity). Involved in degradation of misfolded chaperone substrates via its interaction with STUB1/CHIP: recruited to monoubiquitinated STUB1/CHIP, and restricts the length of ubiquitin chain attached to STUB1/CHIP substrates and preventing further chain extension (PubMed:21855799). Interacts with key regulators of transcription and represses transcription: acts as a histone-binding protein that regulates transcription (By similarity). Regulates autophagy via the deubiquitination of 'Lys-402' of BECN1 leading to the stabilization of BECN1 (PubMed:28445460).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (1).</p>