

## Product datasheet for **MC214767**

### **Atxn7l3b (NM\_001033474) Mouse Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Atxn7l3b (NM\_001033474) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Atxn7l3b  
**Synonyms:** 4921506J03Rik; 6230409E21Rik; AI315132; ENSMUSG00000074747  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Fully Sequenced ORF:** >MC214767 representing NM\_001033474  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGAGGAGATTCGTTGGCCAACCTGGATACTAACAAGCTGGAGGCCATCGCCAGGAGATCTATGTAG  
ACCTGATAGAGGATTCCTGCCTGGGCTTCTGCTTTGAGGTGCACCGGGCGGTCAAGTGTGGCTACTTCTA  
CCTGGAGTTTGCAGACTGGGAGCGTGAAGGATTCGGCATCCAGCCAGTGGAGGACAAAGCGCGTGC  
CGCTCCCGCTCTGCTCCCTTCTGGGGATCCCGGGACGGGCCACAGCGAGCTGCAGCGTTCACCTC  
CGAATCCAG**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001033474  
**Insert Size:** 294 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_001033474.2](#), [NP\\_001028646.2](#)

**RefSeq Size:** 3607 bp

**RefSeq ORF:** 294 bp

**Locus ID:** 382423

**UniProt ID:** [Q3UD01](#)

**Cytogenetics:** 10 D2

**Gene Summary:** By binding to ENY2, interferes with the nuclear functions of the deubiquitinase (DUB) module of the SAGA complex which consists of ENY2, ATXN7, ATXN7L3 and the histone deubiquitinating component USP22. Affects USP22 DUB activity toward histones indirectly by changing the subcellular distribution of ENY2 and altering ENY2 availability for ATXN7L3 interaction. Regulates H2B monoubiquitination (H2Bub1) levels through cytoplasmic sequestration of ENY2 resulting in loss of nuclear ENY2-ATXN7L3 association which destabilizes ATXN7L3. Affects protein expression levels of ENY2 and ATXN7L3. [UniProtKB/Swiss-Prot Function]