

## Product datasheet for SC316504

### ATXN7L3 (NM\_001098833) Human Untagged Clone

#### Product data:

|                           |                                                                                            |
|---------------------------|--------------------------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                                        |
| Product Name:             | ATXN7L3 (NM_001098833) Human Untagged Clone                                                |
| Tag:                      | Tag Free                                                                                   |
| Symbol:                   | ATXN7L3                                                                                    |
| Synonyms:                 | DKFZp761G2113                                                                              |
| Mammalian Cell Selection: | Neomycin                                                                                   |
| Vector:                   | pCMV6-Entry (PS100001)                                                                     |
| E. coli Selection:        | Kanamycin (25 ug/mL)                                                                       |
| Fully Sequenced ORF:      | >SC316504 representing NM_001098833.<br>Blue=Insert sequence Red=Cloning site Green=Tag(s) |

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG  
 GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**  
 ATGAAATGGAGGAAATGCTTTGTCTGGCCTGGATAACAGCAAAGTACAGGCCATCGCTCAGGAGATA  
 TACGCGGACCTGGTCGAGGATTCTGTTTGGGATTCTGCTTTGAGGTACACCGGGCTGTCAAGTGTGGC  
 TACTTCTTCTGGACGACACGGACCCCTGATAGCATGAAGGATTTGAGATCGTGGACCAGCCGGGCTTG  
 GACATCTTTGGACAGGTTTTCAACCAAGTGAAGAGCAAGGAGTGTGTTTGCCCAATTGCAGTCGCAGC  
 ATTGCCGCTCCCGCTTTGCTCCCATCTGGAGAAGTGCCTGGGAATGGGTGGAACAGCAGCCGAATC  
 GCCAACCGCCGGATTGCAATAGCAACAATATGAATAAGTCTGAGAGTGACCAAGAAGATAATGATGAC  
 ATCAATGACAACGACTGGTCCTATGGCTCGGAGAAGAAAGCCAAGAAGAGAAAGTCAGACAAGAACCCC  
 AATTCCCCTCGAAGATCCAAGTCATTAAAAACAAAAATGGGGAACCTAGCAATTCGGATCCTTTTAAG  
 TATAACAATTCAACTGGGATCAGCTATGAGACCTGGGGCCGGAGGAGCTTCGCAGCCTGCTAACCACG  
 CAATGTGGGGTGATTTCTGAACACACCAAGAAGATGTGCACAAGGTCCCTGCGCTGCCACAGCACACA  
 GATGAGCAGAGGCGAACCGTACGGATTTATTTCTCGGGCCCTCGGCTGTCTTCCAGAGGTGAGAGC  
 TCCCTGGATAATGACAGCTTTGACATGACTGACAGCCAGGCCCTGATCAGCCGGCTTCAGTGGGACGGC  
 TCCTCTGACCTCTCACCTCTGATTGAGCTCCTCCAAGACGAGTGAAAAACAGGGATGGGTCTAGGT  
 ACCAACAGCTCTGAGTCACGGAACCAAGAAAAAGAAATCCCATCTGAGCCTGGTAGGGACTGCCTCC  
 GGCTAGGTTCCAACAAGAAGAAGCAAGCCACCGGCACCCCGACGCCAGCATCTATGATGAC  
 ATCAACTGA  
**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT  
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

|                    |              |
|--------------------|--------------|
| Restriction Sites: | SgfI-MluI    |
| ACCN:              | NM_001098833 |


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|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Insert Size:</b>           | 1044 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>OTI Disclaimer:</b>        | 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).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>OTI Annotation:</b>        | This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Components:</b>            | 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).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>RefSeq:</b>                | <u><a href="#">NM_001098833.1</a></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>RefSeq Size:</b>           | 3635 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>RefSeq ORF:</b>            | 1044 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Locus ID:</b>              | 56970                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>UniProt ID:</b>            | <u><a href="#">Q14CW9</a></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Cytogenetics:</b>          | 17q21.31                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>MW:</b>                    | 38.7 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Gene Summary:</b>          | <p>Component of the transcription regulatory histone acetylation (HAT) complex SAGA, a multiprotein complex that activates transcription by remodeling chromatin and mediating histone acetylation and deubiquitination. Within the SAGA complex, participates in a subcomplex that specifically deubiquitinates both histones H2A and H2B (PubMed:18206972, PubMed:21746879). The SAGA complex is recruited to specific gene promoters by activators such as MYC, where it is required for transcription. Required for nuclear receptor-mediated transactivation. Within the complex, it is required to recruit USP22 and ENY2 into the SAGA complex (PubMed:18206972). Regulates H2B monoubiquitination (H2Bub1) levels. Affects subcellular distribution of ENY2, USP22 and ATXN7L3B (PubMed:27601583).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) uses an alternate in-frame splice junction compared to variant 1. The resulting isoform (b) has the same N- and C-termini but is shorter compared to isoform a.</p> |