

Product datasheet for **RG216661**

ATXN7L3 (NM_001098833) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	ATXN7L3
Synonyms:	DKFZp761G2113
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG216661 representing NM_001098833
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCTGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAATGGAGGAAATGTCTTTGTCTGGCCTGGATAACAGCAAAGTAGAGGCCATCGCTCAGGAGATAT
ACGCGGACCTGGTCGAGGATTCTTGTTTGGGATTCTGCTTTGAGGTACACCGGGCTGTCAAGTGTGGCTA
CTTCTTCTGGACGACACGGACCCGTATGATCATGAAGATTTGAGATCGTGGACGACCGGGCTTGGAC
ATCTTTGGACAGTCTTCAACCAAGTGAAGAGCAAGGAGTGTGTTGCCCAATTGCAGTCGCAGCATTG
CCGCTCCCGCTTTGCTCCCATCTGGAGAAGTGCCTGGGAATGGGTCGGAACAGCAGCCGAATCGCCAA
CCGCCGGATTGCCAATAGCAACAATATGAATAAGTCTGAGAGTGACCAAGAAGATAATGATGACATCAAT
GACAACGACTGGTCTATGGCTCGGAGAAGAAAGCCAAGAAGAGAAAGTCAGACAAGAACCCCAATTCCC
CTCGAAGATCCAAGTCATTAACACAAAAATGGGGAAGTAGCAATTCGGATCCTTTAAGTATAACAA
TTCAACTGGGATCAGCTATGAGACCTGGGGCCGGAGGAGCTTCGACGCTGCTAACACGCAATGTGGG
GTGATTTCTGAACACACCAAGAAGATGTGCACAAGGTCCCTGCGCTGCCACAGCACACAGATGAGCAGA
GGCGAACCCTACGGATTTATTTCTCGGGCCCTCGGCTGTCTCTCCAGAGGTCGAGAGCTCCCTGGATAA
TGACAGCTTTGACATGACTGACAGCCAGGCCCTGATCAGCCGGCTTCAGTGGGACGGCTCCTCTGACCTC
TCACCTCTGATTACGGCTCCTCAAGACGAGTGAAAATCAGGGATGGGGTCTAGGTACCAACAGCTCTG
AGTCACGGAAGCAAGAAAAAGAAATCCCATCTGAGCCTGGTAGGGAAGTGCCTCCGGCCTAGGTTCCAA
CAAGAAGAAGAAGCAAGCCACCGGCACCCCGACGCCAGCATCTATGATGACATCAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence:

>RG216661 representing NM_001098833

Red=Cloning site Green=Tags(s)

MKMEEMSLSGLDNSKLEAIAQEIYADLVDSCLGFCFEVHRAVKCGYFFLDDTDPDSMKDFEIVDQPLD
IFGQVFNQWKSKECVPCNSRSIAASRFAPHLEKCLGMGRNSSRIANRRANSNNMNKSESDQEDNDDIN
DNDWSYGSEKKAKKRKSDKNPNSPRRSKSLKHKNLGNLSNDPFGYNNSTGISYETLGPEELRSLTTQCG
VISEHTKKMCTSLRCPQHTDEQRRTVRIYFLGPSAVLPEVSSLDNDSFDMTDSQALISRLQWDGSSDL
SPSDSGSSKTSENQGWGLGTNSSESRTKKKKSHLSLVGTASGLGSNKKKKPKPPAPPTPSIYDDIN

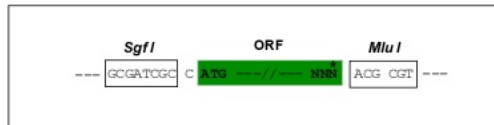
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



CTATAGGGCGCGCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGCGCAGATCT

EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI

CAAGCTTAAGCTAGTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC - - - -

HindIII NheI RsrII MluI NotI XhoI GFP Tag

T R T R P L E M E S D - - - -

--- GAA GAA AGA GTT TAA ACGGCCGCCGCGGAGCT

- - E E R V Stop

ACCN:

NM_001098833

ORF Size:

1041 bp

OTI Disclaimer:

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation:

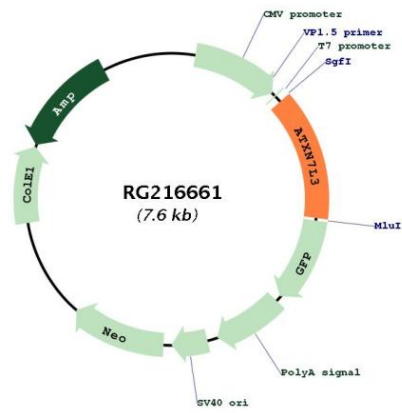
This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001098833.1 , NP_001092303.1
RefSeq Size:	3635 bp
RefSeq ORF:	1044 bp
Locus ID:	56970
UniProt ID:	Q14CW9
Cytogenetics:	17q21.31
Gene Summary:	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]

Product images:



Circular map for RG216661