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Product datasheet for RC216661

ATXN7L3 (NM_001098833) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATXN7L3 (NM_001098833) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ATXN7L3
Synonyms:	DKFZp761G2113
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC216661 representing NM_001098833
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAAATGGAGGAAATGTCTTTGTCTGGCCTGGATAACAGCAAACTAGAGGCCATCGCTCAGGAGATAT
ACGCGGACCTGGTCGAGGATTCTTGTTTGGGATTCTGCTTTGAGGTACACCGGGCTGTCAAGTGTGGCTA
CTTCTTCTTGGACGACACGGACCCTGATAGCATGAAGGATTTTGAGATCGTGGACCAGCCGGGCTTGGAC
ATCTTTGGACAGGTTTTCAACCAGTGGAAGAGCAAGGAGTGTGTTTGCCCCAATTGCAGTCGCAGCATTG
CCGCCTCCCGCTTTGCTCCCCATCTGGAGAAGTGCCTGGGAATGGGTCGGAACAGCAGCCGAATCGCCAA
CCGCCGGATTGCCAATAGCAACAATATGAATAAGTCTGAGAGTGACCAAGAAGATAATGATGACATCAAT
GACAACGACTGGTCCTATGGCTCGGAGAAGAAAGCCAAGAAGAGAAAGTCAGACAAGAACCCCAATTCCC
CTCGAAGATCCAAGTCATTAAAACACAAAAATGGGGAACTTAGCAATTCGGATCCTTTTAAGTATAACAA
TTCAACTGGGATCAGCTATGAGACCCTGGGGCCGGAGGAGCTTCGCAGCCTGCTAACCACGCAATGTGGG
GTGATTTCTGAACACACCAAGAAGATGTGCACAAGGTCCCTGCGCTGCCCACAGCACACAGATGAGCAGA
GGCGAACCGTACGGATTTATTTTCTCGGGCCCTCGGCTGTCCTTCCAGAGGTCGAGAGCTCCCTGGATAA
TGACAGCTTTGACATGACTGACAGCCAGGCCCTGATCAGCCGGCTTCAGTGGGACGGCTCCTCTGACCTC
TCACCCTCTGATTCAGGCTCCTCCAAGACGAGTGAAAATCAGGGATGGGGTCTAGGTACCAACAGCTCTG
AGTCACGGAAAACCAAGAAAAAGAAATCCCATCTGAGCCTGGTAGGGACTGCCTCCGGCCTAGGTTCCAA
CAAGAAGAAGAAGCCAAAGCCACCGGCACCCCCGACGCCCAGCATCTATGATGACATCAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC216661 representing NM_001098833
Red=Cloning site Green=Tags(s)

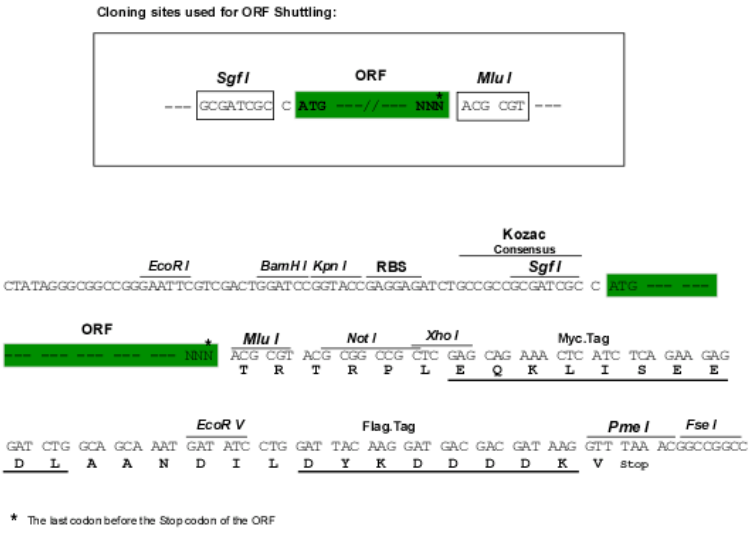
MKMEEMSLSGLDNSKLEAIAQEIYADLVEDSCLGFCFEVHRAVKCGYFFLDDTDPDSMKDFEIVDQPGLD
IFGQVFNQWKSKECVCPNCSRSIAASRFAPHLEKCLGMGRNSSRIANRRIANSNNMNKSESDQEDNDDIN
DNDWSYGSEKKAKKRKSDKNPNSPRRSKSLKHKNGELSNSDPFKYNNSTGISYETLGPEELRSLLTTQCG
VISEHTKKMCTRSLRCPQHTDEQRRTVRIYFLGPSAVLPEVESSLDNDSFDMTDSQALISRLQWDGSSDL
SPSDSGSSKTSENQGWGLGTNSSESRKTKKKKSHLSLVGTASGLGSNKKKKPKPPAPPTPSIYDDIN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1534_a07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001098833

ORF Size: 1041 bp

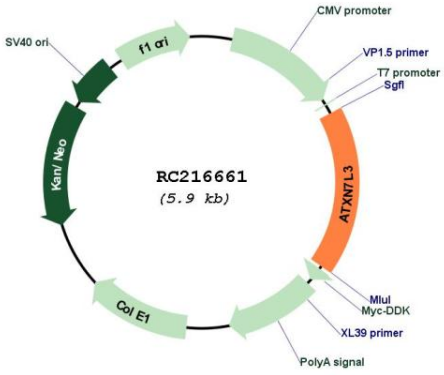
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
RefSeq:	NM_001098833.1, NP_001092303.1
RefSeq Size:	3635 bp
RefSeq ORF:	1044 bp
Locus ID:	56970
UniProt ID:	Q14CW9
Cytogenetics:	17q21.31
MW:	38.5 kDa
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 RC216661