

Product datasheet for RC228018

OriGene Technologies, Inc.

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Ataxin 3 (ATXN3) (NM_001164782) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Ataxin 3 (ATXN3) (NM_001164782) Human Tagged ORF Clone

Tag: Myc-DDK
Symbol: ATXN3

Synonyms: AT3; ATX3; JOS; MJD; MJD1; SCA3

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

Cell Selection: Neomycin

ORF Nucleotide >RC228018 representing NM_001164782
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

GACCTATCAGGACAGAGTTCACATCCATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC228018 representing NM_001164782

Red=Cloning site Green=Tags(s)

 ${\tt MESIFHEKTAAKAATAAAAAAAGGPIRTEFTSM}$

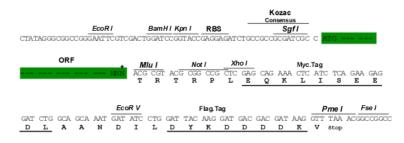
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-Mlul



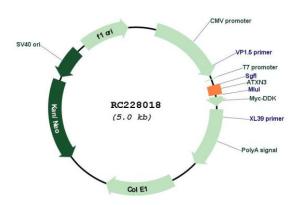
Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001164782

ORF Size: 99 bp



Ataxin 3 (ATXN3) (NM_001164782) Human Tagged ORF Clone - RC228018

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: <u>NM 001164782.2</u>

RefSeq ORF: 102 bp Locus ID: 4287

Cytogenetics: 14q32.12

Protein Families: Druggable Genome, Transcription Factors

MW: 3.1 kDa

Gene Summary: Machado-Joseph disease, also known as spinocerebellar ataxia-3, is an autosomal dominant

neurologic disorder. The protein encoded by this gene contains (CAG)n repeats in the coding region, and the expansion of these repeats from the normal 12-44 to 52-86 is one cause of Machado-Joseph disease. There is a negative correlation between the age of onset and CAG repeat numbers. Alternatively spliced transcript variants encoding different isoforms have

been described for this gene. [provided by RefSeq, Jul 2016]