

Product datasheet for RC225517

Ataxin 3 (ATXN3) (NM_001127696) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ataxin 3 (ATXN3) (NM_001127696) 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 Sequence:	>RC225517 representing NM_001127696 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGTCCATCTTCCACGAGAAACAAGAAGGCTCACTTTGTGCTCAACATTGCCTGAATAACTTATTGC
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AATGGCAGAAGGAGGAGTTACTAGTGAAGATTATCGCAGTTTTTACAGTTATAAGCAATGCCTTGAAA
GTTTGGGTTTTAGAACTAATCCTGTTCACAGTCCAGAGTATCAGAGGCTCAGGATCGATCCTATAAATG
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CTTGAATTCTCTCTTGACGGGTCCAGAATTAATATCAGATACATATCTTGCACTTTTCTTGGCTCAATTA
CAACAGGAAGGTTATTCTATATTTGTCGTTAAGGGTGATCTGCCAGATTGCGAAGCTGACCAACTCCTGC
AGATGATTAGGGTCCAACAGATGCATCGACAAAACCTTATTGGAGAAGAATTAGCACAATAAAAGAGCA
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GAGGAGGATTTGCAGAGGGCTCTGGCACTAAGTCGCCAAGAAATTGACATGGAAGATGAGGAAGCAGATC
TCCGCAGGGCTATTCAGCTAAGTATGCAAGGTAGTTCCAGAAACATATCTCAAGATATGACACAGACATC
AGGTACAAATCTTACTTCAGAAGAGCTTCGGAAGAGAGCAGAGAAGCCTACTTTGAAAAACAGCAGCAAAAG
CAGCAACAGCAGCAGCAGCAGCAGCAGCAGGGGACCTATCAGGACAGAGTTCACATCCATGTGAAAAGGC
CAGCCACCAGTTCAGGAGCACTTGGGAGTGATCTAGGTGATGCTATGAGTGAAGAAGACATGCTTCAGGC
AGCTGTGACCATGTCTTTAGAACTGTCAGAAATGATTTGAAAACAGAAGGAAAAAAA

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ACAAGGATGACGACGATAAGGTTTAA



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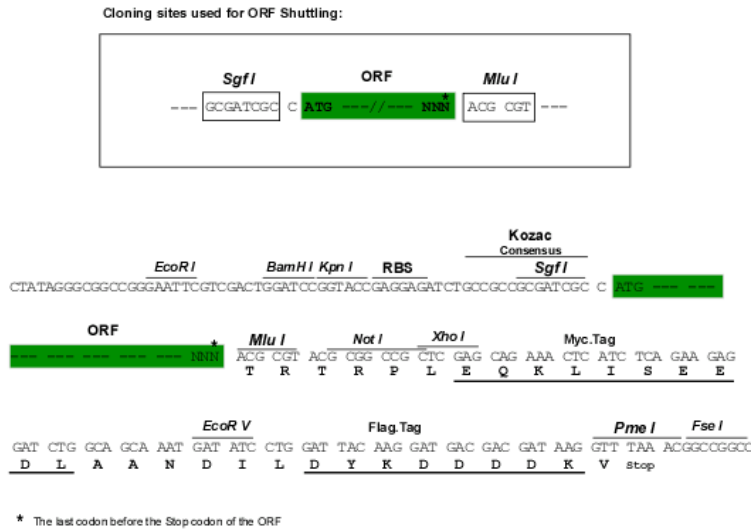
Protein Sequence: >RC225517 representing NM_001127696
 Red=Cloning site Green=Tags(s)

MESIFHEKQEGSLCAQHCLNLLQGEYFSPVELSSIAHQLDDEERMMAEGGVTSEDYRFLQVISNALK
 VWGLELILFNSPEYQRLRIDPINERSFICNYKEHWFTVRKLGKQWFNLNSLLTGPELISDTYLALFLAQL
 QQEGYSIFVVKGDLPCCEADQLQMIRVQQMHRPKLIGEELAQLKEQRVHKTDLERVLEANDGSGMLDED
 EEDLQRALALSRQEIDMEDEEADLRRAIQLSMQSSRNISQDMTQTSNTLSEELRKRREAYFEKQQQK
 QQQQQQQQQGDLSGQSSHP CERPATSSGALGSDLGDAMSEEDMLQAAVTMSLETVRNDLKTEGKK

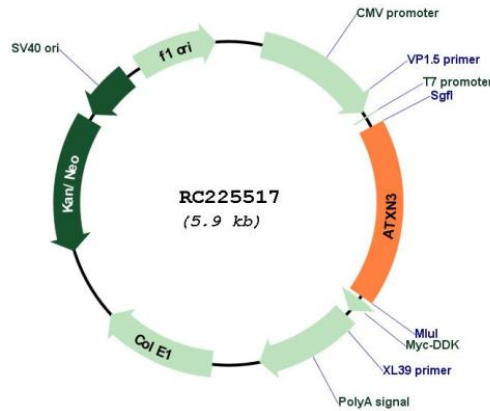
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001127696

ORF Size: 1038 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

RefSeq: [NM_001127696.2](#)

RefSeq ORF: 1041 bp

Locus ID: 4287

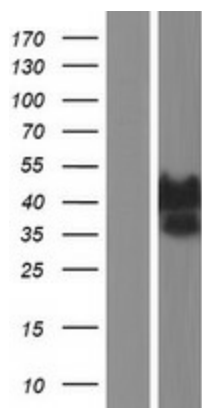
UniProt ID: [P54252](#)

Protein Families: Druggable Genome, Transcription Factors

MW: 39.5 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]

Product images:



Western blot validation of overexpression lysate (Cat# [LY426854]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC225517 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).