

Recombinant Cynomolgus Monkey ATXN2 Protein, C-His tagged

Cat. No. ATXN2-01C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Cynomolgus Monkey ATXN2 Protein with C-His tag was expressed in E. coli.
Species	Cynomolgus
Source	E.coli
Description	This gene belongs to a group of genes that is associated with microsatellite-expansion diseases, a class of neurological and neuromuscular disorders caused by expansion of short stretches of repetitive DNA. The protein encoded by this gene has two globular domains near the N-terminus, one of which contains a clathrin-mediated trans-Golgi signal and an endoplasmic reticulum exit signal. The encoded cytoplasmic protein localizes to the endoplasmic reticulum and plasma membrane, is involved in endocytosis, and modulates mTOR signals, modifying ribosomal translation and mitochondrial function. The N-terminal region of the protein contains a polyglutamine tract of 14-31 residues that can be expanded in the pathogenic state to 32-200 residues. Intermediate length expansions of this tract increase susceptibility to amyotrophic lateral sclerosis, while long expansions of this tract result in spinocerebellar ataxia-2, an autosomal-dominantly inherited, neurodegenerative disorder. Genome-wide association studies indicate that loss-of-function mutations in this gene may be associated with susceptibility to type I diabetes, obesity and hypertension. Alternative splicing results in multiple transcript variants.

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Molecular Mass	124.8 kDa
AA Sequence	MGP HHV AEAPAAAAAATAAAAAAAAAAARGCQCPQARRQRLLASPAASPSPPSS SVSSSSATTPSSAAAATSGGGRPGLGRGRNSNKGLPQSTISFDGIYANMRMVHILTS VVGSKCEVQVKNGGIYEGVFKTYSKCDLVLDAAHEKSTESSSGPKREEIMESILFK CSD FVVVQFKDMDSSYAKRDAFTDSAISAKVNGEHKEKDLEPWDAGELTANEELEA LENDVSN GWPNDMFRYNEENYGVVSTYDSSLSSYTVPLERDNSEEFLKREARAN QLAEEIESSAQYKARVALEND DRSEEEKYTAVQRNSSEREGHSINTRENKYIPPGQR NREVISWGSGRQNSPRMGQPGSGSMPSRSTSHTSDFNPNSCSDQRVVNGGVPW PSPCPSPPSSRPPSRYSQSGPNLPPRAATPTRPPSRPPSRPPSHPSAHGSPAP VSTMPKRMSSEGPPRMSPKAQRHPRNHRVSAGRGSISSGLEFVSHNPPSEAATPP VARTSPSGGTWSSVSVGVPRLSPKTHRPRSPRQNSIGNTPSGPVLASPQAGIIPTEA VAMPIPAASPTPASPASNRAVTPSSEAKDSRLQDQRQNSPAGNKENIKPNETSPSF SKAENKGISPIVSEHRKQIDDLKKFKNDFRLQPSSTSESMDQLLNKNREAEKSRDLIK DKIEPSAKDSFTENSSSNCTSGSSKPNSPSISPSILSNTEHKRGPEVTSQGVQTSSP ACKQEKKDDKEEKDAAEQVRKSTLNPNAKEFNPRSF SQPKPSTTPTSPRPQAQPSP SMVGHQQPTPVYTQPVCFAPNMMYPVPVSPGVQPLYPIPMTPMPVNQAKTYRAGK VPNMPQQRQDQHHQSAMMHPASAAGPPIAATPPAYSTQYVAYSPQQFPNQPLVQ HVPHYQSQHHPVYSPVIQGNARMMAPPTHAQPGLVSSSATQYGAHEQTHAMYAC PKLPYNKETSPSFYFAISTGSLAQQYAHPNATLHPHTPHPQPSATPTGQQQSQHGG SHPAPSPVQHHQHQAALHLASPQQQSAIYHAGLAPTPPSMTPASNTQSPQNSF PAAQQT VFTIHP SHVQPAYTNPPHMAHVPQAHVQSGMVP SHPTAHAPMMLMTTQP PGGPQAALAQSALQPIPVSTTAHFPYMT HPSVQAHHQQQLHHHHHHHH
Endotoxin	<1 EU/μg by LAL
Purity	> 85% by SDS-PAGE
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

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Concentration 0.065 mg/mL

Storage Buffer 20 mM Tris, pH8.0, 200 mM NaCl

GENE INFORMATION

Gene Name ATXN2 ataxin 2 [*Macaca mulatta* (Rhesus monkey)]

Official Symbol ATXN2

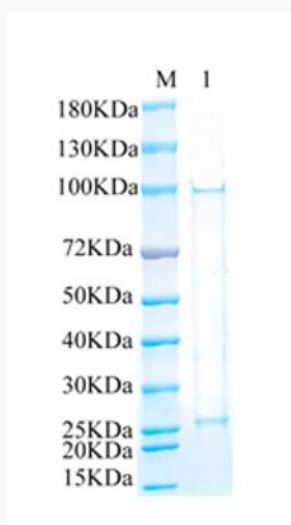
Synonyms ATXN2; ataxin 2; ataxin-2; ataxin-2

Gene ID 710742

mRNA Refseq XM_002807991

Protein Refseq XP_002808037

**Reducing 12% SDS-
PAGE analysis
profiles of purified
ATXN2**



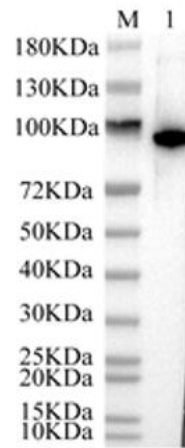
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