

Recombinant Human ATXN3

Cat. No. ATXN3-27045TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length human Ataxin 3; amino acids 1-370 , 42.4kDa.
Species	Human
Source	E.coli
ProteinLength	1-370 a.a.
Description	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 13-36 to 68-79 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.
Tissue specificity	Ubiquitous.
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 10% Glycerol, 50mM Sodium chloride, 20mM Tris HCl, 2mM DTT, pH 7.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated

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freeze / thaw cycles.

Sequences of amino acids

MESIFHEKQE GSLCAQHCLN NLLQGEYFSP VELSSIAHQL DEEERMMAE
 GGVTSEDYRT FLQQPSGNMD DSGFFSIQVI SNALKVWGLE LILFNSPEYQ
 RLRIDPINER SFICNYKEHW FTVRKLKQW FNLNSLLTGP ELISDTYLAL
 FLAQLQQEGY SIFVVKGDLP DCEADQLQM IRVQQMHRPK LIGEELAQLK
 EQRVHKTDLE RVLEANDGSG MLDEDEEDLQ RALALSRQEI DMEDEEADLR
 RAIQLSMQGS SRNISQDMTQ TSGTNLTSEE LRKRREAYFE KQQQKQQQQQ
 QQQQQQQQQQ QQQQGDLSGQ SSHPCERPAT SSGALGSDLG DAMSEEDMLQ
 AAVTMSLETVRNDLKTEGKK

Sequence Similarities

Contains 1 Josephin domain.Contains 3 UIM (ubiquitin-interacting motif) repeats.

Full Length

Full L.

GENE INFORMATION

Gene Name [ATXN3 ataxin 3 \[Homo sapiens \]](#)

Official Symbol [ATXN3](#)

Synonyms

ATXN3; ataxin 3; Machado Joseph disease (spinocerebellar ataxia 3, olivopontocerebellar ataxia 3, autosomal dominant, ataxin 3) , MJD, SCA3; ataxin-3; ATX3; JOS;

Gene ID [4287](#)

mRNA Refseq [NM_001127696](#)

Protein Refseq [NP_001121168](#)

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MIM	607047
Uniprot ID	P54252
Chromosome Location	14q21
Pathway	Protein processing in endoplasmic reticulum, organism-specific biosystem; Protein processing in endoplasmic reticulum, conserved biosystem;
Function	cysteine-type peptidase activity; omega peptidase activity; peptidase activity; protein binding;

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