Recombinant Mouse Ataxin-1 (Atxn1)

Product Code	CSB-MP002438MO
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P54254
Product Type	Recombinant Protein
Immunogen Species	Mus musculus (Mouse)
Purity	≥85% (SDS-PAGE)
Sequence	MKSNQERSNE CLPPKKREIP ATSRPSEEKA TALPSDNHCV EGVAWLPSTP GIRGHGGGRH GSAGTSGEHG LQGMGLHKAL SAGLDYSPPS APRSVPTANT LPTVYPPPQS GTPVSPVQYA HLSHTFQFIG SSQYSGPYAG FIPSQLISPS GNPVTSAVAS AAGATTPSQR SQLEAYSTLL ANMGSLSQAP GHKVEPPPQQ HLSRAAGLVN PGSPPPPTQQ NQYIHISSSP QSSGRATSPP PIPVHLHPHQ TMIPHTLTLG PSSQVVVQYS DAGGHFVPRE STKKAESSRL QQAMQAKEVL NGEMEKSRRY GASSSVELSL GKASSKSVPH PYESRHVVVH PSPADYSSRD TSGVRGSVMV LPNSSTPSAD LEAQQTTHRE ASPSTLNDKS GLHLGKPGHR SYALSPHTVI QTTHSASEPL PVGLPATAFY AGTQPPVIGY LSGQQQAITY AGGLPQHLVI PGNQPLLIPV GSPDMDTPGA ASAIVTSSPQ FAAVPHTFVT TALPKSENFN PEALVTQAAY PAMVQAQIHL PVVQSVASPT TASPTLPPYF MKGSIIQLAN GELKKVEDLK TEDFIQSAEI SNDLKIDSST VERIEESHSP GVAVIQFAVG EHRAQVSVEV LVEYPFFVFG QGWSSCCPER TSQLFDLPCS KLSVGDVCIS LTLKNLKNGS VKKGQPVDPA SVLLKQAKTD SLAGSRHRYA EQENGINQGS AQVLSENGEL KFPEKIGLPA APFLSKIEPS KPTATRKRRW SAPETRKLEK SEDEPPLTLP KPSLIPQEVK ICIEGRSNVG K
Source	Mammalian cell
Target Names	Atxn1
Protein Names	Recommended name: Ataxin-1 Alternative name(s): Spinocerebellar ataxia type 1 protein homolog
Expression Region	1-791
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full length protein
Target Details	The autosomal dominant cerebellar ataxias (ADCA) are a heterogeneous group of neurodegenerative disorders characterized by progressive degeneration of the cerebellum, brain stem and spinal cord. Clinically, ADCA has been divided into three groups: ADCA types I-III. ADCAI is genetically heterogeneous, with five genetic loci, designated spinocerebellar ataxia (SCA) 1, 2, 3, 4 and 6, being assigned to five different chromosomes. ADCAII, which always presents with retinal degeneration (SCA7), and ADCAIII often referred to as the `pure cerebellar syndrome (SCA5), are most likely homogeneous disorders. Several SCA genes have been cloned and shown to contain CAG repeats in their coding

	regions. ADCA is caused by the expansion of the CAG repeats, producing an elongated polyglutamine tract in the corresponding protein. The expanded repeats are variable in size and unstable, usually increasing in size when transmitted to successive generations. The function of the ataxins is not known. This locus has been mapped to chromosome 6, and it has been determined that the diseased allele contains 41-81 CAG repeats, compared to 6-39 in the normal allele. At least two transcript variants encoding the same protein have been found for this gene.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Shelf Life	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.