

Product datasheet for **TP762461**

ATRX (NM_000489) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human alpha thalassemia/mental retardation syndrome X-linked (ATR), transcript variant 1, Leu2214-Arg2413, with N-terminal His tag, expressed in E.coli, 50ug
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	A DNA sequence encoding the region(Leu2214-Arg2413) of ATRX
Tag:	N-His
Predicted MW:	22.9 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	50 mM Tris-HCl, pH 8.0, 8 M urea
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_000480
Locus ID:	546
UniProt ID:	P46100 , A4LAA3 , B4DLW1
RefSeq Size:	10330
Cytogenetics:	Xq21.1
RefSeq ORF:	7476
Synonyms:	JMS; MRX52; RAD54; RAD54L; XH2; XNP; ZNF-HX



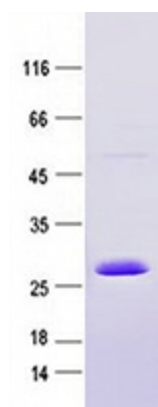
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Summary:

The protein encoded by this gene contains an ATPase/helicase domain, and thus it belongs to the SWI/SNF family of chromatin remodeling proteins. This protein is found to undergo cell cycle-dependent phosphorylation, which regulates its nuclear matrix and chromatin association, and suggests its involvement in the gene regulation at interphase and chromosomal segregation in mitosis. Mutations in this gene are associated with X-linked syndromes exhibiting cognitive disabilities as well as alpha-thalassemia (ATRX) syndrome. These mutations have been shown to cause diverse changes in the pattern of DNA methylation, which may provide a link between chromatin remodeling, DNA methylation, and gene expression in developmental processes. Multiple alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq, Jul 2017]

Protein Families:

Druggable Genome, Transcription Factors

Product images:

Purified recombinant protein ATRX was analyzed by SDS-PAGE gel and Coomassie Blue Staining.