

## Product datasheet for **KN215176RB**

### ATRX Human Gene Knockout Kit (CRISPR)

#### Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 RFP-BSD donor, 1 scramble control
Donor DNA:	RFP-BSD
Symbol:	ATRX
Locus ID:	546
Components:	<b>KN215176G1</b> , ATRX gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) <b>KN215176G2</b> , ATRX gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) <b>KN215176RBD</b> , donor DNA containing left and right homologous arms and RFP-BSD functional cassette. <b>GE100003</b> , scramble sequence in pCas-Guide vector
Disclaimer:	These products are manufactured and supplied by OriGene under license from ERS. The kit is designed based on the best knowledge of CRISPR technology. The system has been functionally validated for knocking-in the cassette downstream the native promoter. The efficiency of the knock-out varies due to the nature of the biology and the complexity of the experimental process.
RefSeq:	<a href="#">NM_000489</a> , <a href="#">NM_138270</a> , <a href="#">NM_138271</a>
UniProt ID:	<a href="#">P46100</a>
Synonyms:	ATR2; JMS; MRX52; MRXHF1; RAD54; RAD54L; SFM1; SHS; XH2; XNP; ZNF-HX
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]



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Product images:

