

Product datasheet for SR319442

OriGene Technologies, Inc.

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ATRX Human siRNA Oligo Duplex (Locus ID 546)

Product data:

Product Type: siRNA Oligo Duplexes

Purity: HPLC purified

Quality Control: Tested by ESI-MS

Sequences: Available with shipment

Stability: One year from date of shipment when stored at -20°C.

of transfections: Approximately 330 transfections/2nmol in 24-well plate under optimized conditions (final

conc. 10 nM).

Note: Single siRNA duplex (10nmol) can be ordered.

RefSeq: <u>NM 000489</u>, <u>NM 138270</u>, <u>NM 138271</u>

UniProt ID: P46100

Synonyms: JMS; MRX52; RAD54; RAD54L; XH2; XNP; ZNF-HX

Components: ATRX (Human) - 3 unique 27mer siRNA duplexes - 2 nmol each (Locus ID 546)

Included - SR30004, Trilencer-27 Universal Scrambled Negative Control siRNA Duplex - 2 nmol

Included - SR30005, RNAse free siRNA Duplex Resuspension Buffer - 2 ml

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

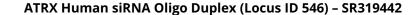
syndromes exhibiting cognitive disabilities as well as alpha-thalassemia (ATRX) syndrome.

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]







Performance Guaranteed:

OriGene guarantees that at least two of the three Dicer-Substrate duplexes in the kit will provide at least 70% or more knockdown of the target mRNA when used at 10 nM concentration by quantitative RT-PCR when the TYE-563 fluorescent transfection control duplex (cat# SR30002) indicates that >90% of the cells have been transfected and the HPRT positive control (cat# SR30003) provides 90% knockdown efficiency.

For non-conforming siRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the siRNA kit. To arrange for a free replacement with newly designed duplexes, please contact Technical Services at techsupport@origene.com. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled siRNA control (quantitative RT-PCR data required).