



IVTScrip™ mRNA-Human ARNTL, (Cap 0, N1-Methylpseudo-UTP, 30 nt-poly(A))

Cat. No.: GTTS-WK23863MR

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product overview

This product GTTS-WK23863MR is a type of mRNA having 30 nt poly(A) tail and modified with Cap 0 & N1-Methylpseudo-UTP. It codes the ARNTL protein. This product can be used in Astrocyte-related researches.

Specifications

Modified bases	N1-Methylpseudo-UTP
5' Cap	Cap 0
Species	Human
RefSeq	NM_001030272.3
Applications	Gene therapy research
Format	Powder
Quantity	100 µg
Purification	Chromatography

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GENE INFORMATION

Alternative Names	TIC; JAP3; MOP3; BMAL1; PASD3; BMAL1c; bHLHe5
Description	The protein encoded by this gene is a basic helix-loop-helix protein that forms a heterodimer with CLOCK. This heterodimer binds E-box enhancer elements upstream of Period (PER1, PER2, PER3) and Cryptochrome (CRY1, CRY2) genes and activates transcription of these genes. PER and CRY proteins heterodimerize and repress their own transcription by interacting in a feedback loop with CLOCK/ARNTL complexes. Defects in this gene have been linked to infertility, problems with gluconeogenesis and lipogenesis, and altered sleep patterns. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2014]