



IVTScrip™ pT7-VEE-mRNA-IL1A Vector

Cat. No.: GTVCR-WQ007MR

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

PRODUCT INFORMATION

Product overview

The vector is an effective transcription system suitable for a variety of research, including the in vitro translation, self-amplifying mRNA studies and protein expression. The system was driven by the T7 promoter to efficiently generate IL1A mRNA through T7 RNA polymerase and nucleotides under appropriate reaction conditions. The vector contains the self-replicating Venezuelan equine encephalitis (VEE) virus RNA replicon, which resulting the mRNA expression at a high level.

Specifications

Promoter	T7
5' UTR	Kozak seq
Resistance	Ampicillin
Species	Human
RefSeq	NM_000575.5
Applications	IVT; Self-amplifying mRNA (SAM) research; Gene therapy research
Format	Solution
Concentration	1 µg/µl
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GENE INFORMATION

Alternative Names	IL1; IL-1A; IL1F1; IL1-ALPHA; IL-1 alpha
Description	<p>The protein encoded by this gene is a member of the interleukin 1 cytokine family. This cytokine is a pleiotropic cytokine involved in various immune responses, inflammatory processes, and hematopoiesis. This cytokine is produced by monocytes and macrophages as a proprotein, which is proteolytically processed and released in response to cell injury, and thus induces apoptosis. This gene and eight other interleukin 1 family genes form a cytokine gene cluster on chromosome 2. It has been suggested that the polymorphism of these genes is associated with rheumatoid arthritis and Alzheimer's disease.</p>