



## IVTScrip™ mRNA-Human ALPP, (Cap 1, 5-Methyl-CTP & Pseudo-UTP, 120 nt-poly(A))

Cat. No.: GTTS-WK19641MR

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

### PRODUCT INFORMATION

#### Product overview

This product GTTS-WK19641MR is a type of mRNA having 120 nt poly(A) tail and modified with Cap 1 & 5-Methyl-CTP & Pseudo-UTP. It encodes the ALPP protein. This product can be used in Trophectoderm cell-related researches.

#### Specifications

<b>Modified bases</b>	5-Methyl-CTP & Pseudo-UTP
<b>5' Cap</b>	Cap 1
<b>Species</b>	Human
<b>RefSeq</b>	NM_001632.5
<b>Applications</b>	Gene therapy research
<b>Format</b>	Powder
<b>Quantity</b>	100 µg
<b>Purification</b>	Chromatography

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## GENE INFORMATION

**Alternative Names** ALP; IAP; ALPI; PALP; PLAP; PLAP-1

**Description** The protein encoded by this gene is an alkaline phosphatase, a metalloenzyme that catalyzes the hydrolysis of phosphoric acid monoesters. It belongs to a multigene family composed of four alkaline phosphatase isoenzymes. The enzyme functions as a homodimer and has a catalytic site containing one magnesium and two zinc ions, which are required for its enzymatic function. One of the main sources of this enzyme is the liver, and thus, it's one of several indicators of liver injury in different clinical conditions. In pregnant women, this protein is primarily expressed in placental and endometrial tissue, however, strong ectopic expression has been detected in ovarian adenocarcinoma, serous cystadenocarcinoma, and other ovarian cancer cells. [provided by RefSeq, Aug 2020]