



## IVTScrip™ mRNA-Human ANK2, (Cap 0, 5-Methyl-CTP & Pseudo-UTP, 120 nt-poly(A))

Cat. No.: GTTS-WK16085MR

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

### PRODUCT INFORMATION

#### Product overview

This product GTTS-WK16085MR is a type of mRNA having 120 nt poly(A) tail and modified with Cap 0 & 5-Methyl-CTP & Pseudo-UTP. It encodes the ANK2 protein. This product can be used in Ionocyte cell-related researches.

#### Specifications

|                |                           |
|----------------|---------------------------|
| Modified bases | 5-Methyl-CTP & Pseudo-UTP |
| 5' Cap         | Cap 0                     |
| Species        | Human                     |
| RefSeq         | NM_001127493.3            |
| Applications   | Gene therapy research     |
| Format         | Powder                    |
| Quantity       | 100 µg                    |
| Purification   | Chromatography            |

### SPECIFICATIONS

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## GENE INFORMATION

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| <b>Alternative Names</b> | LQT4; ANK-2; FAP87; CFAP87; brank-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>       | <p>This gene encodes a member of the ankyrin family of proteins that link the integral membrane proteins to the underlying spectrin-actin cytoskeleton. Ankyrins play key roles in activities such as cell motility, activation, proliferation, contact and the maintenance of specialized membrane domains. Most ankyrins are typically composed of three structural domains: an amino-terminal domain containing multiple ankyrin repeats; a central region with a highly conserved spectrin binding domain; and a carboxy-terminal regulatory domain which is the least conserved and subject to variation. The protein encoded by this gene is required for targeting and stability of Na/Ca exchanger 1 in cardiomyocytes. Mutations in this gene cause long QT syndrome 4 and cardiac arrhythmia syndrome. Multiple transcript variants encoding different isoforms have been described. [provided by RefSeq, Dec 2011]</p> |