

GSKIP cDNA

Catalog Number: ATGD0167

PRODUCT INFORMATION

Catalog number

ATGD0167

Product type

cDNA

Species

Human

NCBI Accession No.

NP_057556.2

Alternative Names

C14orf129, HSPC210

mRNA Refseq

NM_016472.4

OMIM**Chromosome location**

14q32.2

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

420bp

Preparation before usage

1. Centrifuge at 7000rpm for 1 minute.
2. Carefully open the vial and add 100ul of sterile water to dissolve the DNA. Each tube contains approximately 10ug of lyophilized plasmid.

Vector description

This shuttle vector contains the complete ORF. It is inseted BamH I to Xho I. The gene insert contains multiple cloning sites which can be used to easily cut and transfer the gene and recombination site into your expression vector.

Cloning Vector

pATGen (puc19-derived cloning vector)

General Description

GSKIP encodes a protein that is involved as a negative regulator of GSK3-beta in the Wnt signaling pathway. The

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encoded protein may play a role in the retinoic acid signaling pathway by regulating the functional interactions between GSK3-beta, beta-catenin and cyclin D1, and it regulates the beta-catenin/N-cadherin pool. The encoded protein contains a GSK3-beta interacting domain (GID) in its C-terminus, which is similar to the GID of Axin. The protein also contains an evolutionarily conserved RII-binding domain, which facilitates binding with protein kinase-A and GSK3-beta, enabling its role as an A-kinase anchoring protein. Alternatively spliced transcript variants have been observed for this gene.

DATA**Sequence nucleotides**

```
ATGGAAACAGACTGTAATCCCATGGAGCTAAGCAGTATGTCAGGATTTGAAGAAGGTTTCAGAGCTGAACGGTTTTGAAGGA  
ACTGACATGAAAGACATGAGGCTCGAAGCTGAAGCAGTTGTAAATGATGTTCTCTTTGCTGTTAACAACATGTTTGTCTCGA  
AAAGCCTGCGGTGTGCGGATGATGTGGCCTATATCAATGTGGAAACAAAGGAAAGAAACAGATATTGCCTAGAACTCACTG  
AAGCAGGGCTCAAGGTGGTAGGCTATGCTTTTGACCAGGTAGATGATCATTTACAGACTCCCTACCATGAAACAGTCTACTC  
CTTGTTGGATACTCAGCCCCGCTACCGAGAAGCATTGGAAACGCACTGCTTCAAAGACTGGAAGCTTTGAAAAGAGAT  
GGACAGTCATGA
```

Transaction Sequence

```
METDCNPMEL SMSGFEEGS ELNGFEGTDM KDMRLEAEAV VNDVLFVNN MFVSKSLRCA DDVAYINVET KERNRYCLEL  
TEAGLKVVGY AFDQVDDHLQ TPYHETVYSL LDTLSPAYRE AFGNALLQRL EALKRDGQS
```