

Product datasheet for RC202728

TINP1 (NSA2) (NM_014886) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TINP1 (NSA2) (NM_014886) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TINP1
Synonyms:	CDK105; HCL-G1; HCLG1; HUSSY-29; HUSSY29; TINP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC202728 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCCACAGAATGAATATATTGAATTACACCGTAAACGCTATGGATACCGTTTGGATTACCATGAGAAAA
AGAGAAAGAAGGAAAGTCGAGAGGCTCATGAACGTTCAAAGAAGGCAAAGAAAATGATTGGTCTGAAGGC
TAAGCTTTACCATAAACAGCGTCATGCTGAGAAAATACAATGAAAAGACTATCAAGATGCATGAAAAG
AGAAACACCAACAAAAGAATGATGAAAAGACACCACAGGGAGCAGTACCTGCCTATCTGCTGGACAGAG
AGGGACAATCTCGAGCTAAAGTACTTTCCAATATGATTAACAGAAAAGAAAAGAGAAGGCGGGAAAATG
GGAAGTCCCTCTGCCTAAAGTACGTGCCAGGGAGAAACAGAAGTATAAAAAGTTATTCGAACAGGAAAAG
AGAAAGAAGAAGGCATGGAAGAGAATGGTTACTAAAGTGTGCTTTGTTGGAGATGGCTTTACAAGAAAAC
CACCTAAATATGAAAGATTCATCAGGCCAATGGGCTTGCCTTTCAAGAAAGCCCATGTAACACATCCTGA
ACTGAAAGCCACCTTTTGCCTACCAATACTTGGTGTAAAGAAGAATCCCTCATCCCCTGTATACAAC
TTGGGTGTTATTACCAAAGGTAAGTGTGATTGAAGTAAATGTGAGCGAATTGGGCTTGTGACACAAGGAG
GCAAAGTATTGGGGAAAATATGCCAGGTTACCAACAATCCTGAAAATGATGGATGTATAAATGCAGT
CTTACTGGTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC202728 protein sequence
Red=Cloning site Green=Tags(s)

MPQNEYIELHRKRYGYRLDYHEKKRKKESREAHERSKKAKKMIGLKAKLYHKQRHAEKIQMKKTIKMHEK
 RNTKQKNDEKTPQGAVPAYLLDREGQSRKVL SNMIKQKRKEKAGKWEVLPKVVRAQGETEVLKVI RTGK
 RKKKAWKRMVTKVCFVGDGFRKPPKYERFIRPMGLRFKKAHVTHPELKATFCLPILGVKKNPSSPLYTT
 LGVITKGTVIEVNVSELGLVLTQGGKVIWGKYAQVTNNPENDGCINAVLLV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6414_a12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_014886

ORF Size: 780 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_014886.6](#)

RefSeq Size: 1401 bp

RefSeq ORF: 783 bp

Locus ID: 10412

UniProt ID: [O95478](#)

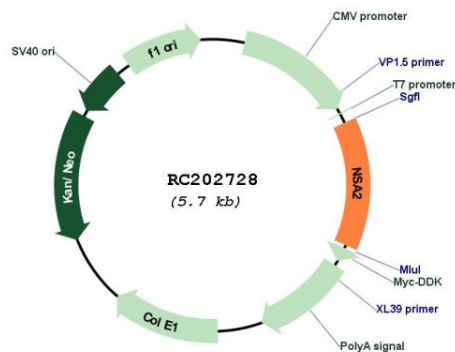
Cytogenetics: 5q13.3

Domains: Ribosomal_S8e

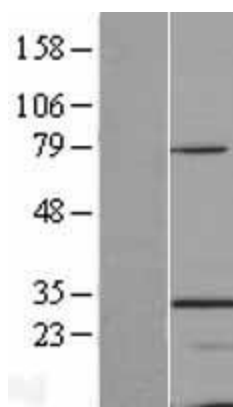
MW: 30.1 kDa

Gene Summary: This gene encodes a nucleolar protein involved in cell cycle regulation and proliferation. This gene was identified based on sequence similarity to a highly conserved *Saccharomyces cerevisiae* gene encoding a pre-ribosomal protein, which is involved in large ribosomal subunit biogenesis. The encoded protein is found at elevated levels in diabetic nephropathy. Alternative splicing results in multiple transcript variants. Several related pseudogenes have been identified. [provided by RefSeq, Nov 2012]

Product images:



Circular map for RC202728



Western blot validation of overexpression lysate (Cat# [LY414957]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202728 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).