

Product datasheet for RC223971

TIAL1 (NM_003252) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TIAL1 (NM_003252) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TIAL1
Synonyms:	TCBP; TIAR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC223971 representing NM_003252 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATGGAAGACGACGGGCAGCCCCGGACTCTATACGTAGGTAACCTTTCCAGAGATGTGACAGAAGTCC
TTATACTTCAGTTGTTTCAGTCAGATTGGACCCTGTAAAAGCTGTAAAATGATAACAGAGCATACAAGCAA
TGACCCATATTGCTTTGTGGAATTTTATGAACACAGAGATGCAGCTGCTGCATTAGCTGCTATGAATGGG
AGAAAAATTTGGAAAGGAGGTCAAAGTAACTGGGCAACCACCAAGTAGCCAGAAAAAGATACTT
CCAATCACTTCCATGTGTTTGTGGGATTTGAGTCCAGAAATTACAACAGAAGATATCAAATCAGCATT
TGCCCCCTTTGGTAAAATATCGGATGCCCGGTAGTTAAAGACATGGCAACTGAAAAATCCAAAGGCTAT
GGTTTTGTATCTTTTTATAACAACTGGATGCAGAAAATGCGATTGTGCATATGGGCGGTCAGTGGTTGG
GTGGTCGTCAAATCCGAACCAATTGGGCCACTCGTAAACCACCTGCACCTAAAAGTACACAAGAAAAACA
CACTAAGCAGTTGAGATTTGAAGATGTAGTAAACCAGTCAAGTCCAAAAAATGTACTGTGTACTGTGGA
GGAATTGCGTCTGGGTTAACAGATCAGCTTATGAGACAGACATTCTACCATTGGACAAATATGGAAA
TAAGAGTTTTCCAGAAAAGGGCTATTCATTTGTGAGATTTTCAACCCATGAAAGTGCAGCCCATGCCAT
TGTTTCGGTGAACGGTACTACGATTGAAGGACATGTGGTAAATGCTATTGGGGTAAAGAATCTCCTGAT
ATGACTAAAAACTCCAACAGTTGACTATAGTCAATGGGGCCAATGGAGCCAAGTGTATGGAAACCCAC
AACAGTATGGACAGTATATGGCAAATGGGTGGCAAGTACCGCCTTATGGAGTATACGGGCAACCATGGAA
TCAACAAGGATTTGGAGTAGATCAATCACCTTCTGCTGCTGGATGGGTGGATTTGGTGCTCAGCTCCC
CAAGGACAAGCTCCTCCCCTGTAATACCTCCTCCTAACCAAGCCGGATATGGTATGGCAAGTTACCAAA
CACAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC223971 representing NM_003252
Red=Cloning site Green=Tags(s)

MMEDDGGPRTL YVGNLSRDVTEV LILQLFSQIGPCKSCKMITEHTSNDPYCFVEFYEHRDAAAALAMNG
 RKILGKEVKVNWATTPSSQKKDTSNHFHVFGDLSPEITTEDIKSAFAPFGKISDARVVKDMATGKSKGY
 GFVSYFNKLD AENAIIVHMGQWLGGRRQIRTNWATRKPAPKSTQENNTKQLRFEDVVNQSSPKNCTVYCG
 GIASGLTDQLMRQTFSPFGQIMEIRVVFPEKGYSFVRFSTHESAHAIVSVNGTTIEGHVVKCYWGKESPD
 MTKNFQQVDYSQWQWSQVYGNPQQYGGQYMANGWQVPPYGVYQGPWNQQGFVDQSPSAAWMGFGAQP
 QQQAPPPVIPPNNQAGYGMASYQTQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6037_d04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_003252

ORF Size: 1125 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_003252.3](#)

RefSeq Size: 1436 bp

RefSeq ORF: 1128 bp

Locus ID: 7073

UniProt ID: [Q01085](#)

Cytogenetics: 10q26.11

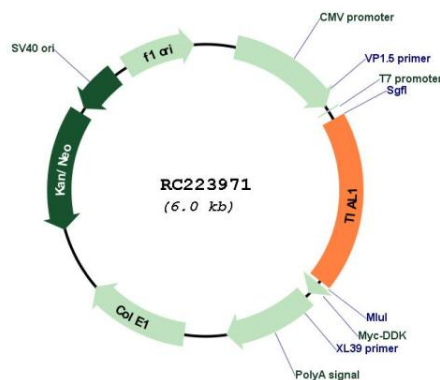
Domains: RRM, RRM_1

Protein Families: Druggable_Genome, Transcription Factors

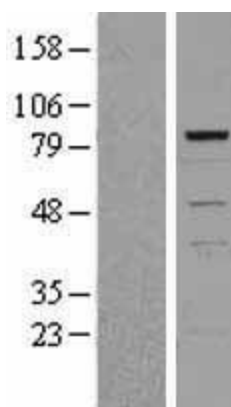
MW: 41.4 kDa

Gene Summary: The protein encoded by this gene is a member of a family of RNA-binding proteins, has three RNA recognition motifs (RRMs), and binds adenine and uridine-rich elements in mRNA and pre-mRNAs of a wide range of genes. It regulates various activities including translational control, splicing and apoptosis. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. The different isoforms have been show to function differently with respect to post-transcriptional silencing. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC223971



Western blot validation of overexpression lysate (Cat# [LY401121]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223971 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).