

Product datasheet for **RC222661**

TFIIS (TCEA2) (NM_003195) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TFIIS (TCEA2) (NM_003195) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TFIIS
Synonyms:	TFIIS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC222661 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGATGGGCAAGGAAGAGGAGATTGCGCGGATCGCCGGAGGCTGGACAAGATGGTGACCAAGAAGAGCG
CGGAGGGAGCCATGGATTTGCTGCGGGAGCTGAAGGCCATGCCTATCACGCTGCACCTGCTCCAGTCCAC
CCGAGTCGGGATGTCTGTCAACGCCCTTCGGAAGCAGAGCTCGGATGAGGAGGTCATTGCACTGGCCAAG
TCTCTCATCAAGTCTGGAAGAAGCTCCTGGATGCTTCCGATGCCAAAGCCAGGGAGCGGGGAGGGGCA
TGCTCTGCCACGTCTCGAGGGATGCCTCAGAGGCCCGGATCCAGCCGCAAGAGGCCGGAGCTGCC
CAGGGCACCGTCGACTCCGAGGATCACCAATTTCTCCGGTGCCTGTACCTGTGATGCCGTGCGCAAC
AAGTGCCGCGAGATGCTGACCGCTGCCCTGCAGACGGACCATGACCACGTGGCCATCGGTGCGGACTGCG
AGCGCCTGTGCGCTCAGATCGAGGAATGCATCTCCGGGACGTTGGAAACACAGACATGAAGTATAAGAA
CCGTGTACGGAGTCGATCTCCAACCTGAAGGATGCCAAGAACCCTGACCTGCGGCGGAATGTGCTGTGT
GGGGCCATAACACCCAGCAGATCGCTGTGATGACCTCAGAGGAGATGGCCAGTGTGAGCTGAAGGAGA
TCCGTAAGGCCATGACCAAGGAGGCCATCCGAGAGCACCAGATGGCCCGCACTGGCGGCACGCAGACAGA
CCTGTTACCTGCGGCAAGTGCAGGAAAAAGAACTGCACCTACACACAGGTGCAGACCCGACGCTCTGAT
GAGCCCATGACCACCTTTGTTGTCTGCAACGAGTGTGAAACCGTGGAAAGTTCTGC

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC222661 protein sequence
Red=Cloning site Green=Tags(s)

MMGKEEEIARIARRLDKMTKSAEGAMDLLRELKAMPITLHLLQSTRVGMVSNALRKQSSDEEVIALAK
 SLIKSWKLLDASDAKARERGRGMPLPTSSRDASEAPDPSRKRPPELPRAPSTPRITTFPPVPVTCDAVRN
 KCREMLTAAALQTDHDHVAIGADCERLSAQIEECIFRDVGNTDMKYKNRVSRSISNLKDAKNPDLRRNVLC
 GAITPQQIAVMTSEEMASDELKEIRKAMTKEAIREHQMARTGGTQTDLFTCGKCRKKNCTYTQVQTRSSD
 EPMTTFVVCNECGNRWKFC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6436_e10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003195

ORF Size: 897 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_003195.6](#)

RefSeq Size: 1749 bp

RefSeq ORF: 900 bp

Locus ID: 6919

UniProt ID: [Q15560](#)

Cytogenetics: 20q13.33

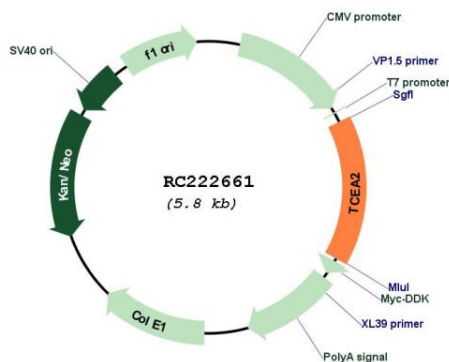
Domains: TFIIS, TFS2N, TFS2M

Protein Families: Transcription Factors

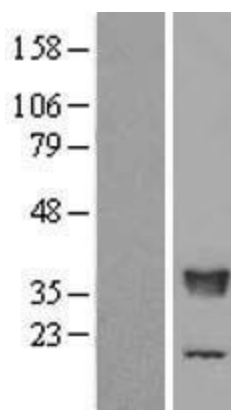
MW: 33.6 kDa

Gene Summary: The protein encoded by this gene is found in the nucleus, where it functions as an SII class transcription elongation factor. Elongation factors in this class are responsible for releasing RNA polymerase II ternary complexes from transcriptional arrest at template-encoded arresting sites. The encoded protein has been shown to interact with general transcription factor IIB, a basal transcription factor. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

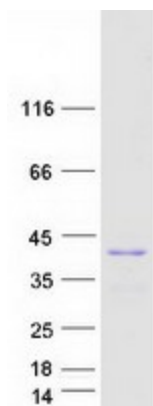
Product images:



Circular map for RC222661



Western blot validation of overexpression lysate (Cat# [LY418837]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222661 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TCEA2 protein (Cat# [TP322661]). The protein was produced from HEK293T cells transfected with TCEA2 cDNA clone (Cat# RC222661) using MegaTran 2.0 (Cat# [TT210002]).