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Product datasheet for RC208347

TFIISH (TCEA3) (NM_003196) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	TFIISH
Synonyms:	TFIIS; TFIIS.H
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC208347 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGCCAGGAAGAGGAGCTGCTGAGGATCGCCAAAAAGCTGGAGAAGATGGTGGCCAGGAAGAACACGG
AAGGGGCCCTGGACCTTCTGAAGAAGCTGCACAGCTGCCAGATGTCCATCCAGCTACTACAGACAACCAG
GATTGGAGTTGCTGTTAATGGGGTCCGCAAGCACTGCTCAGACAAGGAGGTGGTGTCCTTGGCCAAAGTC
CTTATCAAAAACTGGAAGCGGCTGCTAGACTCCCCTGGACCCCCAAAAGGAGAAAAAGGAGAGGAAAGAG
AAAAGGCAAAGAAGAAGGAAAAAGGGCTTGAGTGTTCAGACTGGAAGCCAGAAGCAGGCCTTTCTCCACC
AAGGAAAAAACGAGAAGACCCCAAAACCAGGAGAGACTCTGTGGACTCCAAGTCTTCTGCCTCCTCCTCT
CCAAAAAGACCATCGGTGGAAAGATCAAACAGCAGCAAATCAAAAGCGGAGAGCCCCAAAACACCTAGCA
GCCCCTTGACCCCCACGTTTGCCTCTTCCATGTGTCTCCTGGCCCCCTGCTATCTCACAGGGGACTCTGT
CCGGGACAAGTGTGTGGAGATGCTGTCAGCAGCCCTGAAGGCGGACGATGATTACAAGGACTATGGAGTC
AACTGTGACAAGATGGCATCAGAAATCGAAGATCATATCTACCAAGAGCTCAAGAGCACGGACATGAAGT
ACCGGAACCGCGTGCGCAGCCGCATAAGCAACCTCAAGGACCCCAGGAACCCCGGCCTGCGGCGGAACGT
GCTCAGTGGGGCCATCTCCGCAGGGCTTATAGCCAAGATGACGGCAGAGGAAATGGCCAGTGATGAACTG
AGGGAGTTGAGGAATGCCATGACCCAGGAGGCCATCCGTGAGCACCAGATGGCCAAGACTGGCGGCACCA
CCACTGACCTCTTCCAGTGCAGCAAATGCAAGAAGAAGAACTGCACCTATAACCAGGTGCAGACACGCAG
TGCTGATGAGCCCATGACTACCTTTGTCTTATGCAATGAATGTGGCAATCGCTGGAAGTTCTGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC208347 protein sequence
Red=Cloning site Green=Tags(s)

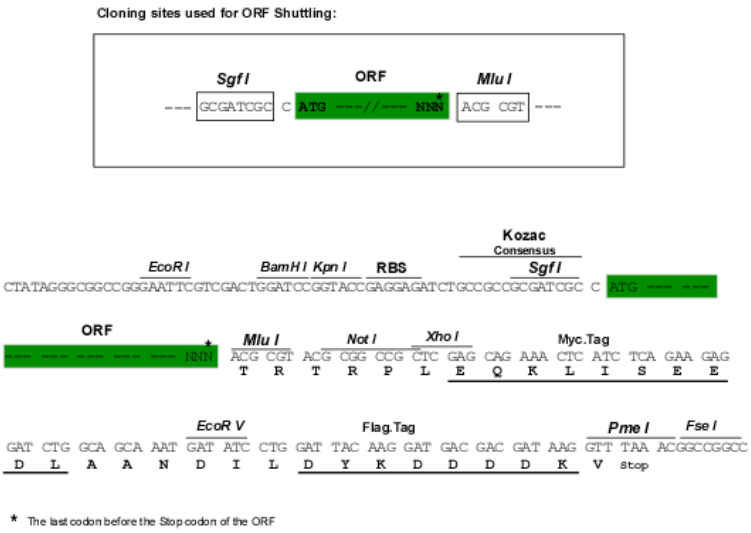
MGQEEELLRIAKKLEKMVARKNTEGALDLLKKLHSCQMSIQLLQTTRIGVAVNGVRKHCSDKEVVSLAKV
LIKNWKRLLDSPGPPKGEKGEEREKAKKKEKGLECSDWKPEAGLSPPRKKREDPKTRRDSVDSKSSASSS
PKRPSVERSNSSKSKAESPKTPSSPLTPTFASSMCLLAPCYLTGDSVRDKCVEMLSAALKADDDYKDYGV
NCDKMASEIEDHIYQELKSTDMKYRNRVRSRISNLKDPRNPGLRRNVLSGAISAGLIAKMTAEEMASDEL
RELRNAMTQEAIREHQMAKTGGTTTDLFQCSKCKKKNCTYNQVQTRSADEPMTTFVLCNECGNRWKFC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6666_f06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003196

ORF Size: 1044 bp

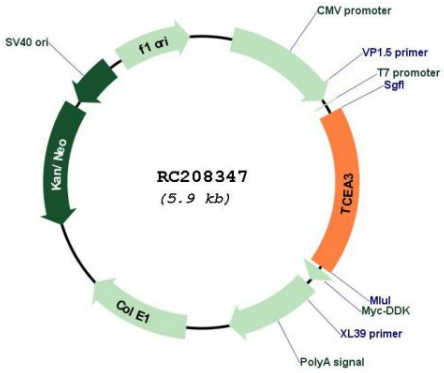
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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).

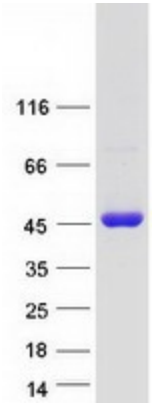
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_003196.3
RefSeq Size:	1586 bp
RefSeq ORF:	1047 bp
Locus ID:	6920
UniProt ID:	O75764
Cytogenetics:	1p36.12
Protein Families:	Transcription Factors
MW:	39 kDa
Gene Summary:	Necessary for efficient RNA polymerase II transcription elongation past template-encoded arresting sites. The arresting sites in DNA have the property of trapping a certain fraction of elongating RNA polymerases that pass through, resulting in locked ternary complexes. Cleavage of the nascent transcript by S-II allows the resumption of elongation from the new 3'-terminus.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC208347

Western validation with an anti-DDK antibody
* L: Control HEK293 lysate R: Over-expression lysate



Coomassie blue staining of purified TCEA3 protein (Cat# [TP308347]). The protein was produced from HEK293T cells transfected with TCEA3 cDNA clone (Cat# RC208347) using MegaTran 2.0 (Cat# [TT210002]).