

Product datasheet for **RC232892**

TCF4 (NM_001243234) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TCF4 (NM_001243234) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TCF4
Synonyms:	bHLHb19; CDG2T; E2-2; FECD3; ITF-2; ITF2; PTHS; SEF-2; SEF2; SEF2-1; SEF2-1A; SEF2-1B; SEF2-1D; TCF-4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC232892 representing NM_001243234
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTACTGCGCATACACAATCCCGGCATGGGCGCAACTCTTTGATGTACTACTATAATGGGAAAGCGG
 TCTATGCTCCATCAGCAAGCACTGCCACTACAATAGGGACTCGCAGGCTATCCTTCTCCAAACCAGC
 AACCCAGCACTTTCCCTAGCTCCTTCTTTCATGCAAGATGGCCATCAGCAGTGACCCCTGGAGCTCTCC
 AGTGGGATGAATCAGCCTGGCTATGCAGGAATGTTGGGCAACTCTTCTCATATCCACAGTCCAGCAGCT
 ACTGTAGCCTGCATCCACATGAACGTTTGGAGCTATCCATCACACTCCTCAGCAGACATCAATCCAGTCT
 TCCTCCGATGTCCACTTTCCATCGTAGTGGTACAAACCATTACAGCACCTCTTCTGTACGCTCCTGCC
 AACGGGACAGACAGTATAATGGCAAATAGAGGAAGCGGGCAGCCGCAGCTCCCAGACTGGAGATGCTC
 TGGGAAAGCACTTGCTTCGATCTATTCTCCAGATCACACTAACACAGCTTTTCATCAAACCTTCAAC
 TCCTGTTGGCTCTCTCCATCTCTCTCAGCAGGCACAGCTGTTTGGTCTAGAAATGGAGGACAGGCTCA
 TCGTCTCCTAATTATGAAGGACCCTTACTCTTTGCAAAGCCGAATTGAAGATCGTTTAGAAAGACTGG
 ATGATGCTATTATGTTCTCCGGAACCATGCAGTGGGCCATCCACAGCTATGCCTGGTGGTTCATGGGGA
 CATGCATGGAATCATTGGACCTTCTATAATGGAGCCATGGGTGGTCTGGGCTCAGGGTATGGAACCGGC
 CTTCTTTCAGCCAACAGACATTCATCATGGTGGGACCCATCGTGAAGATGGCGTGGCCCTGAGAGGCA
 GCCATTCTCTTTCGCAAACAGGTTCCGGTCCACAGCTTCTGTCCAGTCTGCGACTTCCCCTGACCT
 GAACCCACCCAGGACCTTACAGAGGCATGCCACCAGGACTACAGGGCAGAGTGTCTCCTCTGGCAGC
 TCTGAGATCAAATCCGATGACGAGGGTATGAGAACCTGCAAGACACGAAATCTCGGAGGACAAGAAAT
 TAGATGACGACAAGAAGGATATCAAATCAATTACTAGTCAAGATCTAGCAATAATGACGATGAGGACCT
 GACACCAGAGCAGAAGGCAGAGCGTGAGAAGGAGCGGAGGATGGCCAACAATGCCCGAGAGCGCTCGCGG
 GTCCTGTACATCAACGAGGCTTTCAAAGAGCTCGGCCGATGGTGCAGCTCCACCTCAAGAGTGACAAGC
 CCCAGACCAAGCTCCTGATCCTCCACCAGGCGGTGGCCGTATCCTCAGTCTGGAGCAGCAAGTCCGAGA
 AAGGAATCTGAATCCGAAAGCTGCGTGTCTGAAAAGAAGGGAGGAAGAGAAGGTGTCTCAGAGCTCCC
 CCTCTCTCTTGGCCGCCACACCTGGAATGGGAGACGCATCGAATCAGTGGGACAGATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC232892 representing NM_001243234
 Red=Cloning site Green=Tags(s)

MYCAYTIPGMGGNSLMYYYNGKAVYAPSASTADYNRDSPGYPSSKPATSTFPSSFFMQDGHSSDPWSSS
 SGMNQPGYAGMLGNSSHIPQSSSYCSLHPHERLSYPHSSADINSLPMMSTFHRSGTNHYSTSSCTPPA
 NGTDSIMANRSGAAGSSQTGDALGKALASIYSPDHTNNSFSSNPSTPVGSPPSLSAGTAVWSRNGGQAS
 SSPNYEGLHSLQSRIEDRLERLDDAIHVLNRHAVGPSTAMPGGHGMHGIIGPSHNGAMGGLGSGYGTG
 LLSANRHSLMVGTHREDGVALRGSLSLLPNQVPVQLPVQSATSPDLNPPQDPYRGMPPGLQGQSVSSGS
 SEIKSDDEGDENLQDTKSSDKKLDKDKDIKSI TRSRSSNDDDEL TPEQKAEREKERRMANNARERLR
 VRDINEAFKELGRMVQLHLKSDKPQTKLLILHQA VAVILSLEQQVRE RNLNPKAACLRREEEKVSSEPP
 PLSLAGPHPGMGDASNHMQM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

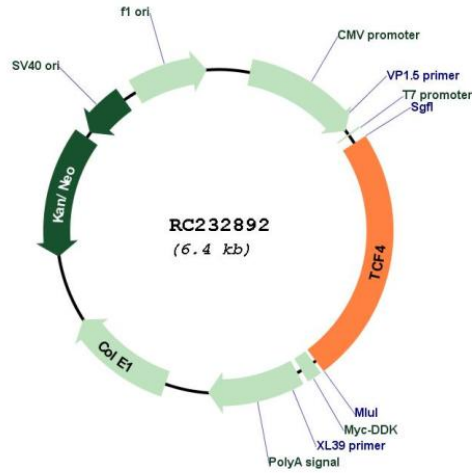
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001243234
ORF Size:	1533 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:	<ol style="list-style-type: none">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_001243234.2
RefSeq Size:	7361 bp
RefSeq ORF:	1536 bp
Locus ID:	6925
UniProt ID:	P15884
Cytogenetics:	18q21.2
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Transcription Factors
MW:	55.1 kDa
Gene Summary:	This gene encodes transcription factor 4, a basic helix-loop-helix transcription factor. The encoded protein recognizes an Ephrussi-box ('E-box') binding site ('CANNTG') - a motif first identified in immunoglobulin enhancers. This gene is broadly expressed, and may play an important role in nervous system development. Defects in this gene are a cause of Pitt-Hopkins syndrome. In addition, an intronic CTG repeat normally numbering 10-37 repeat units can expand to >50 repeat units and cause Fuchs endothelial corneal dystrophy. Multiple alternatively spliced transcript variants that encode different proteins have been described. [provided by RefSeq, Jul 2016]