

Product datasheet for **RC232948**

TCF4 (NM_001243233) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TCF4 (NM_001243233) 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:

>RC232948 representing NM_001243233
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATATGGGCAACCCAGGAACCCTTTCGCCACCAACCTGGTCCCAGTACTATCAGTATTCTAGCA
 ATAATCCCGAAGGAGGCTCTTCACAGTAGTCCATGGAGGTACAGACAAGAAAGTTCGAAAAGTTCC
 TCCAGGTTTGCCATCTTCAGTCTATGCTCCATCAGCAAGCACTGCCGACTACAATAGGGACTCGCCAGGC
 TATCCTTCTCCAAACCAGCAACCAGCACTTTCCCTAGCTCCTTCTTCATGCAAGATGGCCATCACAGCA
 GTGACCCCTGGAGCTCTCCAGTGGGATGAATCAGCCTGGCTATGCAGGAATGTTGGGCAACTCTTCTCA
 TATTCACAGTCCAGCAGCTACTGTAGCCTGCATCCACATGAACGTTTGAGCTATCCATCACACTCTCA
 GCAGACATCAATCCAGTCTTCTCCGATGTCCACTTTCCATCGTAGTGGTACAAACCATTACAGCACCT
 CTTCTGTACGCCTCTGCCAACGGGACAGACAGTATAATGGCAAATAGAGGAAGCGGGCAGCCGGCAG
 CTTCCAGACTGGAGATGCTCTGGGAAAGCACTTGCTTCGATCTATTCTCCAGATCACACTAACACAGC
 TTTTCATCAAACCTTCAACTCCTGTTGGCTCTCTCCATCTCTCTCAGCAGGCACAGCTGTTTGGTCTA
 GAAATGGAGGACAGGCCTCATCGTCTCCTAATTATGAAGGACCCTTACACTCTTTGCAAAGCCGAATTGA
 AGATCGTTTAGAAAGACTGGATGATGCTATTATGTTTCTCCGGAACCATGCAGTGGGCCCATCCACAGCT
 ATGCCTGGTGGTCATGGGGACATGCATGGAATCATTGGACCTTCTCATAATGGAGCCATGGGTGGTCTGG
 GCTCAGGGTATGGAACCGGCTTCTTTAGCCAAACAGACATCACTCATGGTGGGGACCCATCGTGAAGA
 TGGCGTGGCCCTGAGAGGCAGCCATTCTTTCTGCCAAACAGGTTCCGGTTCACAGCTTCTGTCCAG
 TCTGCGACTTCCCTGACCTGAACCCACCCAGGACCTTACAGAGGCATGCCACCAGGACTACAGGGGC
 AGAGTGTCTCTCTGGCAGCTCTGAGATCAAATCCGATGACGAGGGTGATGAGAACCCTGCAAGACCGAA
 ATCTTCGAGGACAAGAAATTAGATGACGACAAGAAGGATATCAAATCAATTAAGCAATAATGACGAT
 GAGGACCTGACACCAGAGCAGAAGGCAGAGCGTGAGAAGGAGCGGAGGATGGCCAAACATGCCCGAGAGC
 GTCTGCGGGTCCGTGACATCAACGAGGCTTTCAAAGAGCTCGGCCGATGGTGCAGCTCCACCTCAAGAG
 TGACAAGCCCCAGACCAAGCTCTGATCTCCACCAGGCGGTGGCCGTCATCCTCAGTCTGGAGCAGCAA
 GTCCGAGAAAGGAATCTGAATCCGAAAGCTGCGTGTCTGAAAAGAAGGGAGGAAGAGAAGGTGCTCTCAG
 AGCCTCCCCTCTCTCTGGCCGGCCACACCCTGGAATGGGAGACGCATCGAATCACATGGGACAGAT
 G

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC232948 representing NM_001243233
 Red=Cloning site Green=Tags(s)

MDMGNPGLSPTKPGSQYYQYSSNNPRRRPLHSSAMEVQTKKVRKVPPGLPSSVYAPSASTADYNRDS
 YPSSKPATSTFPSSFFMQDGHSSDPWSSSSGMNQPGYAGMLGNSSHIPQSSSYCSLHPHERLSYPSHSS
 ADINSSLPPMSTFHRSGTNHYSTSSCTPPANGTDSIMANRSGAAGSSQTGDALGKALASIYSPDHTNNS
 FSSNPSTPVGSPSLSAGTAVWSRNGGQASSSPNYEGLHSLQSRIEDRLERLDDAIHVLRNHAVGPSTA
 MPGGHGMHGIIGPSHNGAMGGLGSGYGTGLLSANRHSLMVGTHREDGVALRGSLSLLPNQVPVPLPVQ
 SATSPDLNPPQDPYRGMPPGLQGQSVSSGSSEIKSDDEGDENLQDTKSSDKKLDKDKDKSITSNDD
 EDLTPEQKAEREKERRMANNARERLRVDINEAFKELGRMVQLHLKSDKPQTKLLILHQAVAVILSLEQQ
 VRERNLNPKAACLRREEEKVSSEPPPLSLAGPHPGMGDASNHMGMQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

ORF Size:	1611 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_001243233.2
RefSeq Size:	7717 bp
RefSeq ORF:	1614 bp
Locus ID:	6925
UniProt ID:	P15884
Cytogenetics:	18q21.2
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Transcription Factors
MW:	57.9 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]