

Product datasheet for **RC233055**

TCF4 (NM_001243227) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | TCF4 (NM_001243227) 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:

>RC233055 representing NM_001243227
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTTTACCTCCTGTGAGCAGTGGGAAAAATGGACCAACTTCTTTGGCAAGTGGACATTTTACTGGCT
CAAATGTAGAAGACAGAAGTAGCTCAGGGTCTGGGGGAATGGAGGACATCCAAGCCCGTCCAGGAACTA
TGGAGATGGGACTCCCTATGACCACATGACCAGCAGGGACCTTGGGTACATGACAATCTCTCTCCACCT
TTTGTCAATTCAGAATACAAAGTAAAACAGAAAGGGGCTCATACTCATCTTATGGGAGAGAATCAAAC
TACAGGGTTGCCACCAGCAGAGTCTCCTTGAGGTGACATGGATATGGGCAACCCAGGAACCTTTTCGCC
CACCAAACCTGGTCCCAGTACTATCAGTATTCTAGCAATAATCCCCGAAGGAGGCCTCTTCACAGTAGT
GCCATGGAGGTACAGACAAAGAAAGTTCGAAAAGTTCCTCCAGGTTTCCATCTTCAGTCTATGCTCCAT
CAGCAAGCACTGCCGACTACAATAGGGACTCGCCAGGCTATCCTTCTCCAAACCAGCAACCAGCACTTT
CCCTAGCTCCTTCTCATGCAAGATGGCCATCACAGCAGTGACCCTTGGAGCTCTCCAGTGGGATGAAT
CAGCCTGGCTATGCAGGAATGTTGGGCAACTCTTCTCATATTCCACAGTCCAGCAGCTACTGTAGCCTGC
ATCCACATGAACGTTTGAGCTATCCATCACACTCCTCAGCAGACATCAATTCCAGTCTTCTCCGATGTC
CACTTTCCATCGTAGTGGTACAAACCTTACAGCACCTCTTCTGTACGCCTCCTGCCAACGGGACAGAC
AGTATAATGGCAAATAGAGGAAGCGGGGACGCCGAGCTCCAGACTGGAGATGCTCTGGGAAAGCAC
TTGCTTCGATCTATTCTCCAGATCACACTAACACAGCTTTTCATCAAACCTTCAACTCCTGTTGGCTC
TCCTCCATCTCTCAGCAGGCACAGCTGTTTGGTCTAGAAATGGAGGACAGGCCTCATCGTCTCCTAAT
TATGAAGGACCCTTACACTCTTTGCAAAGCCGAATTGAAGATCGTTTAGAAAGACTGGATGATGCTATTC
ATGTTCTCCGGAACCATGCAGTGGGCCCATCCACAGCTATGCCTGGTGGTCAATGGGACATGCATGGAAT
CATTGGACCTTCTCATAATGGAGCCATGGGTGGTCTGGGCTCAGGGTATGGAACCGGCCTTCTTTAGCC
AACAGACATTCATCATGGTGGGACCCATCGTGAAGATGGCGTGGCCCTGAGAGGCAGCCATTCTCTTC
TGCCAAACCAGGTTCCGTTCCACAGCTTCTGTCCAGTCTGCGACTTCCCCTGACCTGAACCCACCCCA
GGACCCTTACAGAGGCATGCCACCAGGACTACAGGGCAGAGTGTCTCCTCTGGCAGCTCTGAGATCAA
TCCGATGACGAGGGTGTGAGAACCTGCAAGACACGAAATCTTCGGAGGACAAGAAATTAGATGACGACA
AGAAGGATATCAAATCAATTAAGTCAAGATCTAGCAATAATGACGATGAGGACCTGACACCAGAGCA
GAAGGCAGAGCGTGAGAAGGAGCGGAGGATGGCCAACAATGCCGAGAGCGTCTGCGGGTCCGTGACATC
AACGAGGCTTTCAAAGAGCTCGGCCGATGGTGCAGCTCCACCTCAAGAGTGACAAGCCCAGACCAAGC
TCCTGATCCTCCACCAGGCGGTGCCGTCATCCTCAGTCTGGAGCAGCAAGTCCGAGAAAGGAATCTGAA
TCCGAAAGCTGCGTGTCTGAAAAGAAGGGAGGAAGAGAAGGTGTCTCAGAGCCTCCCCCTCTCTCTTG
GCCGCCACACCTGGAATGGGAGACGCATCGAATCACATGGGACAGATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC233055 representing NM_001243227
 Red=Cloning site Green=Tags(s)

MFSPPVSSGKNGPTSLASGHFTGSNVEDRSSSGSWGNGGHPSPSRNYGDGTPYDHMTSRDLGSHDNLSP
 FVNSRIQSKTERGSYSSYGRESNLQGCHQQLLGGDMDMGNPGLSPTKPGSQYYQYSSNNPRRPLHSS
 AMEVQTKKVRKVPPLPSSVYAPSASTADYNRDSPGYPSSKPATSTFPSSFFMQDGHSSDPWSSSSGMN
 QPGYAGMLGNSSHIPQSSSYCSLHPHERLSYPHSSADINSSLPPMSTFHRSGTNHYSTSSCTPPANGTD
 SIMANRGSAGAAGSSQTGDALGKALASIYSPDHTNNSFSSNPSTPVGSPPLSAGTAVWSRNGGQASSPN
 YEGPLHSLQSRIEDRLERLDDAIHVLNRHAVGPSTAMPGGHGMHGIIGPSHNGAMGGLGSGYGTLLSA
 NRHSLMVGTHREDGVALRGSHSLLPNQVPVQLPVQSATSPDLNPPQDPYRGMPPGLQGGVSSGSSEIK
 SDDEGDENLQDTKSSDKKLDKDKIKSITRSRSDNDEDLTPEQKAEREKERRMANNARERLVRDI
 NEAFKELGRMVQLHLKSDKPQTKLLILHQAVAVILSLEQQVRERLNPKAAACLKRREEEKVSSEPPPLSL
 AGPHPGMGDASNHMGM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

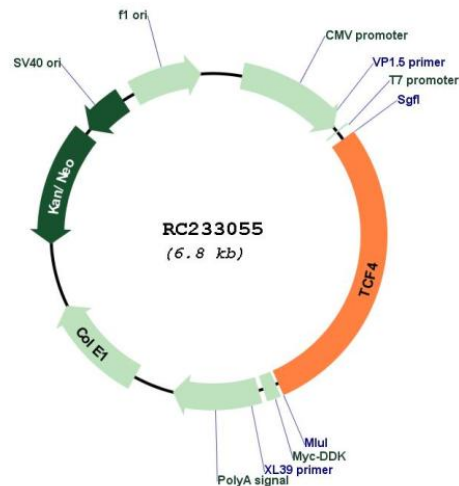
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001243227

ORF Size: 1941 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_001243227.2](#)

| | |
|-------------------|--|
| RefSeq Size: | 8166 bp |
| RefSeq ORF: | 1944 bp |
| Locus ID: | 6925 |
| UniProt ID: | P15884 |
| Cytogenetics: | 18q21.2 |
| Protein Families: | Druggable Genome, ES Cell Differentiation/IPS, Transcription Factors |
| MW: | 69.5 kDa |
| Gene Summary: | <p>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]</p> |