

Product datasheet for **RG233055**

TCF4 (NM_001243227) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TCF4 (NM_001243227) Human Tagged ORF Clone
Tag:	TurboGFP
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
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG233055 representing NM_001243227
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGTTTTACCTCCTGTGAGCAGTGGAAAAATGGACCACTTCTTTGGCAAGTGGACATTTTACTGGCT
 CAAATGTAGAAGACAGAAGTAGCTCAGGGTCTGGGGGAATGGAGGACATCCAAGCCGTCAGGAACTA
 TGGAGATGGGACTCCCTATGACCACATGACCAGCAGGGACCTTGGGTACATGACAACTCTCTCCACCT
 TTTGTCAATCCAGAATACAAAGTAAAACAGAAAGGGGCTCATACTCATCTTATGGGAGAGAATCAAAC
 TACAGGGTTGCCACCAGCAGAGTCTCCTTGGAGGTGACATGGATATGGGCAACCCAGGAACCTTTCGCC
 CACCAAACCTGGTCCCAGTACTATCAGTATTCTAGCAATAATCCCCGAAGGAGGCTCTTCACAGTAGT
 GCCATGGAGGTACAGACAAAGAAAGTTCGAAAAGTTCCTCCAGGTTTCCATCTTCAGTCTATGCTCCAT
 CAGCAAGCACTGCCGACTACAATAGGGACTCGCCAGGCTATCCTTCTCCAAACCAGCAACCAGCACTTT
 CCCTAGCTCCTTCTCATGCAAGATGGCCATCACAGCAGTGACCCTTGGAGCTCTCCAGTGGGATGAAT
 CAGCCTGGCTATGCAGGAATGTTGGGCAACTTCTCTCATATTCCACAGTCCAGCAGCTACTGTAGCCTGC
 ATCCACATGAACGTTTGGCTATCCATCACACTCCTCAGCAGACATCAATTCCAGTCTTCTCCGATGTC
 CACTTTCATCGTAGTGGTACAAACATTACAGCACCTTCTCCTGTACGCCTCCTGCCAACGGGACAGAC
 AGTATAATGGCAAATAGAGGAAGCGGGGACGCCGAGCTCCAGACTGGAGATGCTCTGGGAAAGCAC
 TTGCTTCGATCTATTCTCCAGATCACACTAACACAGCTTTTCATCAAACCTTCAACTCCTGTTGGCTC
 TCCTCCATCTCTCAGCAGGCACAGCTGTTTGGTCTAGAAATGGAGGACAGGCTCATCGTCTCCTAAT
 TATGAAGGACCTTACACTCTTTGCAAAGCCGAATTGAAGATCGTTTGAAGAACTGGATGATGCTATTC
 ATGTTCTCCGGAACCATGCAGTGGGCCATCCACAGCTATGCCTGGTGGTATGGGAAAGGAAATGCTG
 CATTGGACCTTCTCATAATGGAGCCATGGGTGGTCTGGGCTCAGGGTATGGAACCGCCTCTTTTCAGCC
 AACAGACATTCATCATGGTGGGACCCATCGTGAAGATGGCGTGGCCCTGAGAGGCAGCCATTCTCTTC
 TGCCAAACCAGGTTCCGTTCCACAGCTTCTGTCCAGTCTGCGACTTCCCTGACCTGAACCCACCCCA
 GGACCCTTACAGAGGCATGCCACCAGGACTACAGGGGACAGGTGTCTCCTCTGGCAGCTCTGAGATCAA
 TCCGATGACGAGGGTATGAGAACCTGCAAGACACGAAATCTTCGGAGGACAAGAAATTAGATGACGACA
 AGAAGGATATCAAATCAATTAAGTCAAGATCTAGCAATAATGACGATGAGGACCTGACACCAGAGCA
 GAAGGCAGAGCGTGAGAAGGAGCGGAGGATGGCCAACAATGCCGAGAGCGTCTGCGGGTCCGTGACATC
 AACGAGGCTTTCAAAGAGCTCGGCCGATGGTGCAGCTCCACCTCAAGAGTGACAAGCCCAAGCAAGC
 TCCTGATCCTCCACCAGGCGGTGCCGTCATCCTCAGTCTGGAGCAGCAAGTCCGAGAAAGGAATCTGAA
 TCCGAAAGCTGCGTGTCTGAAAAGAAGGGAGGAAGAGAAGGTGTCTCAGAGCCTCCCTCTCTCCTTG
 GCCGGCCACACCCTGGAATGGGAGACGCATCGAATCACATGGGACAGATG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG233055 representing NM_001243227
 Red=Cloning site Green=Tags(s)

MFSPVSSGKNGPSTLASGHFTGSNVEDRSSSGSWGNGGHPSPSRNYGDGTPYDHMTSRDLGSHDNLSP
 FVNSRIQSKTERGSYSSYGRESNLQCHQQLLGGMDMGNPGLSPTKPGSQYYQYSSNPPRRRPLHSS
 AMEVQTKKVRKVPPGLPSSVYAPSASTADYNRDSPGYPSSKPATSTFPSSFFMQDGHSSDPWSSSSGMN
 QPGYAGMLGNSSHIPQSSSYCSLHPHERLSYPSSHADINSSLPMTFHRSGTNHYSTSSCTPPANGTD
 SIMANRSGAAGSSQTGDALGKALASIYSPDHTNNSFSNPSTPVGSPPSLSAGTAVWSRNGGQASSSPN
 YEGPLHLSQSRIEDRLERLDDAIHVLRNHAVGPSTAMPGGHGMHGIIGPSHNGAMGGLGSGYGTGLLSA
 NRHSLMVGTHREDGVALRGSHLLPNQVPVQLPVQSATSPDLNPPQDPYRGMPPGLQGQSVSSGSSEIK
 SDDEGDENLQDTKSSDKLDDDKDIKISITRSRNSNDDDLTPEQKAEREKERRMANNARERLRVRDI
 NEAFKELGRMVQLHLKSDKPQTKLLILHQAQAVAVILSLEQQVRERNLNPKAAACLKRREEEKVSSEPPPLSL
 AGPHPGMGDASNHMGMQ

TRTRPLE – GFP Tag – V

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_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
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]