

Product datasheet for **RG224290**

TCF7 (NM_003202) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TCF7 (NM_003202) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: TCF7
Synonyms: TCF-1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG224290 representing NM_003202
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCGAGCTGGACTCCGGCGGGGGCGGGCGGGCGGGCGGACGACCTCGGCGCGCCGGACGAGCTGC
 TGGCCTCCAGGATGAAGGCGAGGAGCAGGACGACAAGAGCCGCGACAGCGCCGCCGGTCCCAGCGCGA
 CCTGGCCGAGCTCAAGTCGTCGTCGTGAACGAGTCCGAGGGCGCGCCGGCGCGCAGGGATCCCGGGG
 GTCCCGGGGGCCGGCGCCGGGGCCCGCGGCGAGGCCGAGGCTCTCGGGCGGGAACACGCTGCGCAGAGAC
 TCTCCCGGACAAACTCCAGAGCCCTGGAGGACGGCCTGAAGGCCCGGAGTGCACCAGCGGCATGTA
 CAAAGAGACCGTCTACTCCGCTTCAATCTGCTCATGCATTACCCACCCCTCGGGAGCAGGGCAGCAC
 CCCAGCCGACGCCCCGCTGCACAAGGCCAATCAGCCCCCACGGTGTCCCCAACTCTCTCTACG
 AACATTTCAACAGCCACATCCCACCCCTGCACCTGCGGACATCAGCCAGAAGCAAGTTCACAGGCCCTCT
 GCAGACCCCTGACCTCTCTGGCTTCTACTCCCTGACCTCAGGCAGCATGGGGCAGCTCCCCACACTGTG
 AGCTGGTTCACCCACCCATCCTTGATGCTAGGTTCTGGTGTACCTGGTACCCAGCAGCCATCCCCACC
 CGGCCATTGTGCCCCCTCAGGAAGCAGGAGCTGCAGCCCTCGACCGCAACCTGAAGACACAAGCAGA
 GTCCAAGGCAGAGAAGGAGGCCAAGAAGCCAACCATCAAGAAGCCCTCAATGCCTTCATGCTGTACATG
 AAGGAGATGAGAGCCAAGGTCATTGCAGAGTGACACTTAAGGAGAGCGCTGCCATCAACCAGATCCTGG
 GCCGAGGTGGCAGCGCTGTGCGGAGAAGAGCAGGCCAAGTACTATGAGCTGGCCCGCAAGGAGAGGCA
 GCTGCACATGCAGCTATACCCAGGCTGGTCAGCGCGGACAACCTACGGGAAGAAGAGGCGGTGAGG
 GAAAAGCACCAAGAATCCACCACAGGAGGAAAAAGAAATGCATTTCGTAATTACCCGGAGAAGGCCGCTG
 CCCAGCCCCGTTCTTCCGATGACAGTGCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG224290 representing NM_003202
 Red=Cloning site Green=Tags(s)

MPQLDSGGGGAGGGDDLAPDELLAFQDEGEEQDDKSRDSSAAGPERDLAELKSSLVNESEGAAGGAGIPG
 VPGAGAGARGEAEALGREHAAQRLFPDKLPEPLEDGLKAPECTSGMYKETVYSAFNLLMHYPPPSGAGQH
 PQPQPPLHKANQPPHGVPLSLYEHFNSPHPTAPADISQKQVHRPLQTPDLSGFYSLTSGSMGQLPHTV
 SWFTHPSLMLGSGVPGHPAAIPHPAIVPPSGKQELQPFDRNLKTQAESKAEKEAKKPTIKKPLNAFMLYM
 KEMRAKVIAECTLKESAAINQILGRRWHALSREEQAKYELARKERQLHMQLYPGWSARDNYGKKRRSR
 EKHQESTTGGKRNAFGTYPEKAAAPAPFLPMTVL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003202

ORF Size: 1152 bp

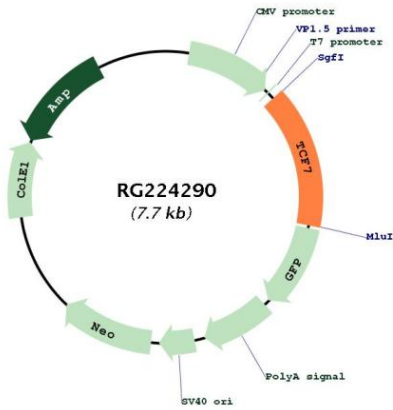
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_003202.5
RefSeq Size:	3283 bp
RefSeq ORF:	1155 bp
Locus ID:	6932
UniProt ID:	P36402
Cytogenetics:	5q31.1
Domains:	HMG
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Transcription Factors
Protein Pathways:	Acute myeloid leukemia, Adherens junction, Arrhythmogenic right ventricular cardiomyopathy (ARVC), Basal cell carcinoma, Colorectal cancer, Endometrial cancer, Melanogenesis, Pathways in cancer, Prostate cancer, Thyroid cancer, Wnt signaling pathway
Gene Summary:	<p>This gene encodes a member of the T-cell factor/lymphoid enhancer-binding factor family of high mobility group (HMG) box transcriptional activators. This gene is expressed predominantly in T-cells and plays a critical role in natural killer cell and innate lymphoid cell development. The encoded protein forms a complex with beta-catenin and activates transcription through a Wnt/beta-catenin signaling pathway. Mice with a knockout of this gene are viable and fertile, but display a block in T-lymphocyte differentiation. Alternative splicing results in multiple transcript variants. Naturally-occurring isoforms lacking the N-terminal beta-catenin interaction domain may act as dominant negative regulators of Wnt signaling. [provided by RefSeq, Oct 2016]</p>

Product images:



Circular map for RG224290