

## Product datasheet for RC224290

### TCF7 (NM\_003202) Human Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: TCF7 (NM\_003202) Human Tagged ORF Clone  
 Tag: Myc-DDK  
 Symbol: TCF7  
 Synonyms: TCF-1  
 Mammalian Cell Selection: Neomycin  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 ORF Nucleotide Sequence: >RC224290 representing NM\_003202  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCCGAGCTGGACTCCGGCGGGGGCGGCGGGCGGGCGGCGACGACCTCGGCGCGCCGGACGAGCTGC  
 TGGCCTTCCAGGATGAAGGCGAGGAGCAGGACGACAAGAGCCGCGACAGCGCCGCCGGTCCCAGCGCGA  
 CCTGGCCGAGCTCAAGTCGTCGTCGTGAACGAGTCCGAGGGCGCGCCGGCGCGCAGGGATCCCGGGG  
 GTCCCGGGGGCCGCGCCGGGGCCGCGCGAGGCGGAGGCTCTCGGGCGGAACACGCTGCGCAGAGAC  
 TCTTCCCGGACAACTTCCAGAGCCCTGGAGGACGGCCTGAAGGCCCGGAGTGCACCAGCGGCATGTA  
 CAAAGAGACCGTCTACTCCGCTTCAATCTGCTCATGCATTACCCACCCCTCGGGAGCAGGGCAGCAC  
 CCCCAGCCGACGCCCCGCTGCAAGGCAATCAGCCCCCACGGTGTCCCCAACTCTCTCTACG  
 AACATTTCAACAGCCACATCCCACCCCTGCACCTGCGGACATCAGCCAGAAGCAAGTTCACAGGCCTCT  
 GCAGACCCCTGACCTCTCTGGCTTCTACTCCCTGACCTCAGGCAGCATGGGGCAGCTCCCCACACTGTG  
 AGCTGGTTCACCCACCCATCCTTGATGTAGTTCTGGTGTACCTGGTACCCAGCAGCCATCCCCACC  
 CGGCCATTGTGCCCCCTCAGGAAGCAGGAGCTGCAGCCCTCGACCGCAACCTGAAGACACAAGCAGA  
 GTCCAAGGCAGAGAAGGAGGCCAAGAAGCCAACCATCAAGAAGCCCTCAATGCCTTCATGCTGTACATG  
 AAGGAGATGAGAGCCAAGGTCATTGCAGAGTGACACTTAAGGAGAGCGTGCCATCAACCAGATCCTGG  
 GCCGAGGTGGCAGCGCTGTGCGGAGAAGAGCAGGCCAAGTACTATGAGCTGGCCCGCAAGGAGAGGCA  
 GCTGCACATGCAGCTATACCCAGGCTGGTCAGCGCGGACAACCTACGGGAAGAAGAAGAGCGGTGAGG  
 GAAAAGCACCAAGAATCCACCACAGGAGGAAAAAGAAATGCATTTCGTAATTACCCGAGAAGGCCGCTG  
 CCCAGCCCCGTTCTTCCGATGACAGTGCTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



**Protein Sequence:** >RC224290 representing NM\_003202  
 Red=Cloning site Green=Tags(s)

MPQLDSGGGGAGGGDDLAPDELLAFQDEGEEQDDKSRDSSAAGPERDLAELKSSLVNESEGAAGGAGIPG  
 VPGAGAGARGEAEALGREHAAQRLFPDKLPEPLEDGLKAPECTSGMYKETVYSAFNLLMHYPPPSGAGQH  
 PQPQPPLHKANQPPHGVPLSLYEYFNPHPTPAPADISQKQVHRPLQTPDLSGFYSLTSGSMGQLPHTV  
 SWFTHPSLMLGSGVPGHPAAIHPAIVPPSGKQELQPFDRNLKTQAESKAKEEAKKPTIKKPLNAFMLYM  
 KEMRAKVIAECTLKESAAINQILGRRWHALSREEQAKYELARKERQLHMQLYPGWSARDNYGKKKRRSR  
 EKHQESTTGGKRNAFGTYPEKAAAPAPFLPMTVL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_003202

**ORF Size:** 1152 bp

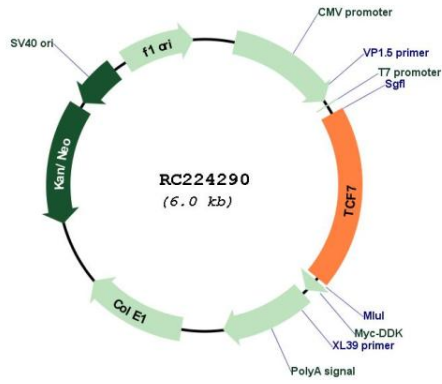
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_003202.5</a>
<b>RefSeq Size:</b>	3283 bp
<b>RefSeq ORF:</b>	1155 bp
<b>Locus ID:</b>	6932
<b>UniProt ID:</b>	<a href="#">P36402</a>
<b>Cytogenetics:</b>	5q31.1
<b>Domains:</b>	HMG
<b>Protein Families:</b>	Druggable Genome, ES Cell Differentiation/IPS, Transcription Factors
<b>Protein Pathways:</b>	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
<b>MW:</b>	41.4 kDa
<b>Gene Summary:</b>	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]

Product images:



Circular map for RC224290