

Product datasheet for **SC121841**

TCF7 (NM_201633) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TCF7 (NM_201633) Human Untagged Clone
Tag:	Tag Free
Symbol:	TCF7
Synonyms:	FLJ36364; MGC47735; OTTHUMP00000159391; TCF-1; Transcription factor-7, T-cell specific; transcription factor 7 (T-cell specific, HMG-box)
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_201633, the custom clone sequence may differ by one or more nucleotides

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ATGTACAAAGAGACCGTCTACTCCGCCTTCAATCTGCTCATGCATTACCCACCCCTCGGGAGCAGGGC
AGCACCCCGAGCCGAGCCCGCTGCACAAGGCCAATCAGCCCCCAGGGTGTCCCCAACTCTCTCT
CTACGAACATTTCAACAGCCACATCCCACCCCTGCACCTGCGGACATCAGCCAGAAGCAAGTTCACAGG
CCTCTGCAGACCCCTGACCTCTCTGGCTTCTACTCCCTGACCTCAGGCAGCATGGGGCAGCTCCCCACA
CTGTGAGCTGGTTCACCCACCCATCCTTGATGCTAGGTTCTGGTGTACCTGGTCACCCAGCAGCCATCCC
CCACCCGGCCATTGTGCCCCCTCAGGGAAGCAGGAGCTGCAGCCCTTCGACCGCAACCTGAAGACACAA
GCAGAGTCCAAGGCAGAGAAGGAGGCCAAGAAGCCAACCATCAAGAAGCCCTCAATGCCTTCATGCTGT
ACATGAAGGAGATGAGAGCCAAGGTCATTGCAGAGTGCACACTTAAGGAGAGCGCTGCCATCAACCAGAT
CCTGGGCCGAGGTGGCAGCGCTGTCGCGAGAAGAGCAGGCCAAGTACTATGAGCTGGCCCGCAAGGAG
AGGCAGCTGCACATGCAGCTATACCCAGGCTGGTCAAGCGGGACAACACGCGGAAGAAGAAGAGCGGT
CGAGGGAAAAGCACCAAGAATCCACCACAGAGACAACTGGCCCAGAGAACTCAAGGATGGTAAATGGACA
AGAGTCACTGTCCATGTCTTCTCTAGCCAGCTTGA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_201633 unedited</p> <pre>GACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCGGGGGCCGGCGCCGGGGCCCGCG GCGAGGCCGAGGCTCTCGGGCGGGAACACGCTGCGCAGAGACTCTCCCGGACAACTTC CAGAGCCCCTGGAGGACGGCCTGAAGGCCCGGAGTGCACCAGCGGCATGTACAAAGAGA CCGTCTACTCCGCCTTCAATCTGCTCATGCATTACCCACCCCTCGGGAGCAGGGCAGC ACCCCCAGCCGACGCCCCGCTGCACAAGGCCAATCAGCCCCCCCACGGTGTCCCCAAC TCTCTCTACGAACATTTCAACAGCCCCACATCCCACCCCTGCACCTGGGACATCAGCC AGAAGCAAGTTCACAGGCCTCTGCAGACCCTGACCTCTCTGGCTTCTACTCCCTGACCT CAGGCAGCATGGGGCAGCTCCCCACACTGTGAGCTGGCCAGCCCTCCTCTACCCCC TGTCCCCTTCTGCGGATATAGACANGCACTTCCCTGCCCCACTGCAGCCCTGGCGCC CCCTACCCAGGTTACCCACCCATCCTTGATGCTAGGTTCTGGTGTACCTGGTCACCCA GCAGCCATCCCCACCCGGCCATTGTGCCCCCTCAGGAAAGCAGAGCTGCAGCCCTTC GACNCCGACCTGAGACACAAGCAGAGTCCAAGGCAGAGAAGGAGCCAAGAAGCCAACC ATCAAGAAGCCCCTCATGCCTTCATGCTGTACATGAAGGGAGATGAGAGCCAGGTCATT GCAGAGTGACACTTAAAGAGAGCGCTGCATCACCAGATCTGGCCGCGAGTGCACGCGCT GTCGCAGAAAAAGCAGCCAGTACTATGACCTGCCCGAAGGAAAGGCAGCTGCCATGCA CTATCCCAGCTGGTCACGCGAACTACGGAAAAAAAAAAGCGGGCCGGGAAACCCAG AATCCCACGGAGAAAGATTGCTCGACTACCCCGAAAGCCT</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_201633
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_201633.1 , NP_963964.1
RefSeq Size:	1254 bp
RefSeq ORF:	810 bp
Locus ID:	6932
Cytogenetics:	5q31.1
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:

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]

Transcript Variant: This variant (3) differs in the 5' UTR and has multiple differences in the 5' and 3' coding region, compared to variant 1. These differences cause translation initiation from a downstream ATG and a protein isoform (3) with a distinct C-terminus, compared to isoform 1.