

Product datasheet for **SC126274**

TCF7L1 (NM_031283) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TCF7L1 (NM_031283) Human Untagged Clone
Tag:	Tag Free
Symbol:	TCF7L1
Synonyms:	TCF-3; TCF3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_031283 edited
CCCACGCGTCCGGGGGAGCCCTAGGCTCGGCGCTGCCGGAGGGGCCGAGCCGAGCCGCC
TGCGCCCCGGCCGGGCAGCGCCGGGCCCTTCCCAGGGGGCCACGCCCTGTCAAATTT
GTTGCGGCGGCTAGCGCAGCGGGCCCGCAAGCGGGCGGGAGGGGGCGCCGGGCCGGGCCGG
GCAGGGCGCGGGCGGCTAGGGGCTCCGAGAGCGGGCCCGCCCGCCGGGCCACCATG
CCCCAGTCTCGGCGCGGGGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCTCCAG
GCCGGGGCGGCCGGCGGAGGGGACGACCTCGGGGCGAACGACGAGCTGATCCCCCTCCAG
GACGAGGGGGGCGAGGAGCAGGAGCCGAGCAGCGATAGCCCTCGGCGCAGCGGGACCTA
GACGAGGTCAAGTCGTCCCTGGTCAACGAGTCGGAGAACCAGAGCAGCAGCTCGGACTCG
GAGGCGGAGAGGCGCCCGCAGCCGTCGGGACACTTTCCAGAAGCCGCGGGACTATTTT
GCCGAAGTGAGAAGCCCTCAGGACAGCGGTTCTTTAAAGGACCCCGTACCCTGGGTAC
CCCTTCTGATGATCCCGGACCTGAGCAGCCGTAACCTCTCAACGACCCCTGTCTCCC
GGAGGAGCGGCACCTACCTGCAGATGAAATGGCCCTCTCGATGTCCCCTCCAGCGCC
ACAGTCAAGGACACGAGGTACCATCTCCAGCACACTTGTCTAATAAAGTTCTGTCTGTT
CAGCACCCGCATCACATGCATCCGCTGACTCCCCTCATCACTACAGCAATGACCACTTC
TCCCCCGCTCCCTCCACCCACTCTCCCAGAGATCGATCCAAAGACAGGAATCCCC
CGGCCCTCACCCATCCGAGCTGTACCGTATTACCCACTCTCTCCCGAGCTGTCCGA
CAAATCCCCACCCCTCGGCTGGCTCGTCCCACAGCAAGGCCAGCCATGTAATCCCTT
CCTCCCGTGGCTTCCGGCACCCCTTACCCGCCCCTCGCCATGAACGCCTCGATGTCCAGC
CTGGTCTCCAGTCGGTTCTCTCCTCACATGGTGGCTCCTGCCACCCTGGCCTGCCACC
TCAGGGATCCCCACCCCTGCCATCGTCTCCCCATCGTCAAGCAGGAACCGGCACCCCC
AGCCTGAGCCCTGCAGTGAGCGTGAAATCACCAGTCACCGTGAAAAAGGAGGAGGAAAAG
AAGCCCCACGTGAAGAAGCCTCTGAATGCCTTCATGTTGTATATGAAGGAGATGAGGGCC
AAGGTGGTGGCTGAGTGCACCCCTGAAGGAAAGTGCAGCCATTAACCAGATCCTTGGAAGA
AAGTGGCACAACCTGTCTCGAGAAGAACAGGCCAAGTACTACGAGCTGGCCCGGAAGGAG
CGGCAGTTCACTCGCAGCTCTACCCAACCTGGTCAGCCCGGGACAACATGGTAAGAAA
AAGAAGAGGAAGAGAGAAAAGCAGCTGTCCAGACACAGTCACAGCAGCAAGTCCAGGAG
GCAGAGGGTGGCCTGGCCTCCAAGAGCAAGAAGCCATGTGTTAGTACCTGCCCCCGAG
AAGCCCTGTGACAGCCCTGCCTCTCCACGGGAGCATGCTGGACTCCCCGGCCACTCCC
TCTGCAGCTTTGGCCTCACCAGTGCCTCTCCACGGGAGCATGCTGGACTCCCCGGCCACTCCC
TCTCCCTCACCACCAACCAGAAACCCGGGCCAGCTGGCTCTCCTACTGCGCCCTTC
CTGTCCGCTAAGGCTGCAGCCTCCTCTAGGCAGATGGGCAGCCAGCCTCCCCCTCTG
TCCCGGCCCTCCCCCTTGGGTCCATGCCACAGCTCTGCTGGCCTCTCCCCCGTCTTC
CCCGCCACGCTCCATGCCACCAGGCCCTCCCGGTGCTACAGGCCAGCCTCTTCCCTG
GTCACCAAGTCTGCCACTAAGCTCCCCCGACCCCTGCAGGCTGTACATGACTCATTG
AGTAGTAATGATTCAAAAAAAAAAAAAAAA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_031283 unedited AGTATTTTGTACATACGACTCTACTATAGGGGCGGCCGCGTAATCCCGGGTTATCGTCGA CCCACGTGTCGCCACGCGTCCGGGGAGCCCTAGGCTCGGCGCTGCCGGAGGGGCC GAGCCGAGCCGCTGCGCCCCGGCCGGGAGCGCCGGGCCGCTTCCCGGGGGCCACGC CCTGTCAAACCTTTGTTGCGGCGGCTAGCGCAGCGGGCCGCAAGCGGGCGGGAGGGGCGC CGGGCCGGGCGGGCAGGGCGCGGGCGGCTAGGGGCTCCGAGAGCGGGCCCGGCCCG CGGCCCCACCATGCCCATCTCGGCGGGGGGGCGGGCGGGCGGGCAGCGGGGAGG CGGCGGCTCCAGCGCCGGGGCGGCCGGCGGAGGGGACGACCTCGGGGCGAACGACGAGCT GATCCCTTCCAGGACGAGGGGGCGAGGAGCAGGAGCCGAGCAGCGATAGCGCCTCGGC GCAGCGGGACCTAAACGAGGTCAAGTCGTCCTGGTCAACGAGTCGGAGAACCAAGCAGC AGCTCGGACTCGGAAGCGGAGAGGCGCCCGCAGCCCGTCCGGAACACTTTCAAAAACCC GGGACTATTTCCGCAAATGAGAAGGCCTAAGAACGCGCGTTTTTTAAGGGACCCCGTTA CCCGGGGACCCCTTCCGAGGATCCAGGACTTGACAGCCCGTAACTTTTCAAAGGACCC CTGGTTTCCGGGAGGAGCCGCCCTACCCTGAAAGAAAAGGCCCTTTCCTGATTTCCCG CTACCCGCCATGTCAGGAACCAAGGTCAACTTCTCAAGACAATTTGCAAAAAAAGCA TGGGGTAAAAACCCATTAGAGGGATCGGGTAGATCCCTAATCCCTACAAAAGGGCCA ATTTTTCCCGGGAGGCATGATGACATACTTTTCGGGAATTCTGTGCAAAAAGGGGAN
Restriction Sites:	Please inquire
ACCN:	NM_031283
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.
	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
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:	<u>NM_031283.1, NP_112573.1</u>
RefSeq Size:	2779 bp
RefSeq ORF:	1767 bp

Locus ID:	83439
UniProt ID:	Q9HCS4
Cytogenetics:	2p11.2
Protein Families:	Druggable Genome, 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 factor family of transcription factors. These transcription factors are activated by beta catenin, mediate the Wnt signaling pathway and are antagonized by the transforming growth factor beta signaling pathway. The encoded protein contains a high mobility group-box DNA binding domain and participates in the regulation of cell cycle genes and cellular senescence. [provided by RefSeq, Nov 2010]