

Product datasheet for **SC327541**

TCF7L2 (NM_001146284) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TCF7L2 (NM_001146284) Human Untagged Clone
Tag:	Tag Free
Symbol:	TCF7L2
Synonyms:	TCF-4; TCF4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001146284, the custom clone sequence may differ by one or more nucleotides

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ATGCCGCAGCTGAACGGCGGTGGAGGGGATGACCTAGGCGCCAACGACGAACTGATTTC
TTCAAAGACGAGGGCGAACAGGAGGAGAAGAGCTCCGAAAACCTCCGCGCAGAGAGGGAT
TTAGCTGATGTCAAATCGTCTCTAGTCAATGAATCAGAAAACGAATCAAAACAGCTCCTCC
GATTCCGAGGCGGAAAGACGGCCTCCGCCTCGCTCCGAAAGTTTCCGAGACAAATCCCGG
GAAAGTTTGAAGAAGCGGCCAAGAGGCAAGATGGAGGGCTCTTAAGGGGCCACCGTAT
CCCGGCTACCCCTTCATCATGATCCCCGACCTGACGAGCCCTACCTCCCCAACGGATCG
CTCTCGCCCACCGCCGAACCTATCTCCAGATGAAATGGCCACTGCTTGATGTCCAGGCA
GGGAGCCTCCAGAGTAGACAAGCCCTCAAGGATGCCCGGTCCCCATCACCGGCACACATT
GTCTCTAACAAAGTGCCAGTGGTGCAGCACCCCTACCATGTCCACCCCTCACGCCTCTT
ATCACGTACAGCAATGAACACTTCACGCCGGGAAACCCACCTCCACACTTACCAGCCGAC
GTAGACCCCAAAACAGGAATCCCACGGCCTCCGCACCCCTCCAGATATATCCCCGTATTAC
CCTACTATCGCCTGGCACCGTAGGACAAATCCCCCATCCGCTAGGATGGCAAGGTCAACCA
GTGTACCAATACGACAGGAGGATTGACACCCCTACCCACAGCTCTGACCGTCAAT
GCTTCCATGTCCAGGTTCCCTCCCATATGGTCCCACCACATCATACGCTACACAGCAGC
GGCATTCCGCATCCGGCCATAGTCACACCAACAGTCAAACAGGAATCGTCCCAGAGTGAT
GTCGGCTCACTCCATAGTTCAAAGCATCAGGACTCCAAAAAGGAAGAAGAAAAGAAGAAG
CCCCACATAAAGAAACCTCTTAATGCATTATGTTGTATATGAAGGAAATGAGAGCAAAG
GTCGTAGCTGAGTGCACGTTGAAAAGAAAGCGCGCCATCAACCAGATCCTTGGGCGGAGG
TGGCATGCACTGTCCAGAGAAGAGCAAGCGAAATACTACGAGCTGGCCCGGAAGGAGCGA
CAGCTTATATGCAACTGTACCCCGGCTGGTCCGCGGGGATAACTATGGAAAGAAGAAG
AAGAGGAAAAGGACAAGCAGCCGGGAGAGACCAATGAACACAGCGAATGTTTCTAAAT
CCTTGCTTTTCACTTCTCCGATTACAGGAGAAAAAAAAGTGCCTTCGCTACATACAAG
GTGAAGGCAGCTGCCTCAGCCCACCTCTTCAGATGGAAGCTTAC
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Restriction Sites: Please inquire



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ACCN:	NM_001146284
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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_001146284.1</u> , <u>NP_001139756.1</u>
RefSeq Size:	3919 bp
RefSeq ORF:	1368 bp
Locus ID:	6934
UniProt ID:	<u>Q9NQB0</u>
Cytogenetics:	10q25.2-q25.3
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:	<p>This gene encodes a high mobility group (HMG) box-containing transcription factor that plays a key role in the Wnt signaling pathway. The protein has been implicated in blood glucose homeostasis. Genetic variants of this gene are associated with increased risk of type 2 diabetes. Several transcript variants encoding multiple different isoforms have been found for this gene.[provided by RefSeq, Oct 2010]</p> <p>Transcript Variant: This variant (4) has multiple differences in the coding region, compared to variant 1, one of which results in a translational frameshift. The resulting protein (isoform 4) has a distinct C-terminus and is shorter than isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>