

Product datasheet for **SC327124**

TCF7L2 (NM_001146274) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TCF7L2 (NM_001146274) 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)



[View online »](#)

Fully Sequenced ORF: >OriGene ORF sequence for NM_001146274 edited
 ATGCCGCAGCTGAACGGCGGTGGAGGGGATGACCTAGGCGCCAACGACGAACTGATTTCC
 TTCAAAGACGAGGGCGAACAGGAGGAGAAGAGCTCCGAAAACCTCTCGGCAGAGAGGGAT
 TTAGCTGATGTCAAATCGTCTCTAGTCAATGAATCAGAAACGAATCAAAACAGCTCCTCC
 GATTCCGAGGCGGAAAGACGGCCTCCGCCTCGCTCCGAAAGTTTCCGAGACAAATCCCGG
 GAAAGTTTGGAAGAAGCGGCCAAGAGGCAAGATGGAGGGCTCTTAAGGGGCCACCGTAT
 CCCGGCTACCCCTTCATCATGATCCCCGACCTGACGAGCCCTACCTCCCAACGGATCG
 CTCTCGCCACCCGCCGAACCCTCCATTTTCAGTCCGGCAGCACACATTACTCTGCGTAC
 AAAACGATTGAACACCAGATTGCAGTTCAGTATCTCCAGATGAAATGGCCACTGCTTGAT
 GTCCAGGCAGGGAGCCTCCAGAGTAGACAAGCCCTCAAGGATGCCCGGTCCCATCACCG
 GCACACATTGTCTCTAACAAAGTGCCAGTGGTGCAGCACCCCTCACCATGTCCACCCCTC
 ACGCCTCTTATCACGTACAGCAATGAACACTTCACGCCGGGAAACCCACCTCCACACTTA
 CCAGCCGACGTAGACCCCAAAACAGGAATCCCACGGCCTCCGCACCTCCAGATATATCC
 CCGTATTACCCACTATCGCTGGCACCGTAGGACAAATCCCCATCCGCTAGGATGGTTA
 GTACCACAGCAAGGTCAACCAGTGTACCCAATCAGCAGAGGAGTTCAGACACCCTAC
 CCCACAGCTCTGACCGTCAATGCTTCCATGTCCAGGTTCCCTCCCATATGGTCCCACCA
 CATCATACGCTACACACGACGGGCAATCCGCATCCGGCCATAGTACACCAACAGTCAAA
 CAGGAATCGTCCCAGAGTGATGTGCGGCTCACTCCATAGTTCAAAGCATCAGGACTCCAAA
 AAGGAAGAAGAAAAGAAGAAGGCCACATAAAGAAACCTCTTAATGCATTCATGTTGAT
 ATGAAGGAAATGAGAGCAAAGGTCTAGCTGAGTGCACGTTGAAAGAAAGCGCGGCCATC
 AACCAGATCCTTGGGCGGAGGTGGCATGCACTGTCCAGAGAAGAGCAAGCGAAATACTAC
 GAGCTGGCCCGGAAGGAGCGACAGCTTCATATGCAACTGTACCCCGGCTGGTCCGCGCG
 GATAACTATGGAAGAAGAAGAAGAGGAAAAGGACAAGCAGCCGGGAGAGACCAATGAT
 GCAAATACTCAAAGAAGTGTGCGGCACTGTTGCGGCTTGACCCGACAGACTTTATGGTGC
 AAACCGTGCAGGAGAAAAAAAAGTGCCTGCTACATACAAGGTGAAGGAGCTGCCTC
 AGCCACCCCTCTCAGATGGAAGCTTACTAGATTGCTCCCTCCCGAACCTGCTA
 GGCTCCCTCCCGAGACGCCAAGTACAGACTGAGCAGACCCAGCCTCTGTGCTGTCC
 CTGAAGCCGACCCCTGGCCACCTGTCCATGATGCCTCCGCCACCCGCCCTCTGCTC
 GCTGAGGCCACCCACAAGGCTCCGCCCTGTGCCAACGGGGCCCTGGACTGCCCCCA
 GCCGCTTTCAGCCTGCCGCCCTCCTCATCAATTGCACAGCCGTCGACTTCTTCCTTA
 CATTCCCACAGCTCCCTGGCCGGACCCAGCCCGCCGCTGTGCTCGTCCACCAAGTCT
 TTAGAATAG

Restriction Sites: Please inquire

ACCN: NM_001146274

Insert Size: 3700 bp

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](#)

OTI Annotation:	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_001146274.1.
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_001146274.1, NP_001139746.1</u>
RefSeq Size:	4022 bp
RefSeq ORF:	1809 bp
Locus ID:	6934
UniProt ID:	<u>Q9NQBO</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 (1) encodes the longest isoform. 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>