

Product datasheet for **SC327105**

TCF7L2 (NM_001146285) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TCF7L2 (NM_001146285) Human Untagged Clone
Tag:	Tag Free
Symbol:	TCF7L2
Synonyms:	TCF-4; TCF4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC327105 representing NM_001146285.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCACGATCGCC
ATGCCGCAGCTGAACGGCGGTGGAGGGGATGACCTAGGCGCCAACGACGAAGTATTTCTTCAAAGAC
GAGGGCGAACAGGAGGAGAAGAGCTCCGAAAACCTCGGCAGAGAGGGATTTAGCTGATGTCAAATCG
TCTCTAGTCAATGAATCAGAAACGAATCAAAACAGCTCCTCCGATTCCGAGGCGGAAAGACGGCCTCCG
CCTCGCTCCGAAAGTTTCCGAGACAAATCCCGGAAAGTTTGGAAGAAGCGGCCAAGAGGCAAGATGGA
GGGCTCTTTAAGGGGCCACCGTATCCCGGCTACCCCTTCATCATGATCCCGACCTGACGAGCCCTAC
CTCCCCAACGGATCGCTCTCGCCACCGCCGAACCTATCTCCAGATGAAATGGCCACTGCTTGATGTC
CAGGCAGGAGCCTCCAGAGTAGACAAGCCCTCAAGGATGCCCGTCCCATCACCGGCACACATTGTC
TCTAACAAAGTGCCAGTGGTGCAGCACCCCTCACCATGTCCACCCCTCACGCCTTTATCACGTACAGC
AATGAACACTTCACGCCGGGAAACCCACCTCCACACTTACCAGCCGACGTAGACCCCAAAACAGGAATC
CCACGGCCTCCGACCCCTCCAGATATATCCCGTATTACCACTATCGCCTGGCACCGTAGGACAAATC
CCCCATCCGCTAGGATGGTTAGTACCACAGCAAGGTCAACCAGGTGTACCAATCACGACAGGAGGATTC
AGACACCCCTACCCACAGCTCTGACCGTCAATGCTTCCATGTCCAGGTTCCCTCCCATATGGTCCCA
CCACATCATACGCTACACACGACGGGATTCCGCATCCGGCCATAGTCACACCAACAGTCAAACAGGAA
TCGTCCCAGAGTGATGTCGGCTCACTCCATAGTTCAAAGCATCAGGACTCCAAAAGGAAGAAGAAAG
AAGAAGCCCCACATAAAGAAACCTCTTAATGCATTGTTGTATATGAAGGAAATGAGAGCAAAGGTC
GTAGCTGAGTGACGTTGAAAGAAAGCGCGGCCATCAACCAGATCCTTGGGCGGAGGTGGCATGCACTG
TCCAGAGAAGAGCAAGCGAAATACTACGAGCTGGCCCGGAAGGAGCGACAGCTTCATATGCAACTGTAC
CCCGGTGGTCCGCGGGGATAACTATGGAAGAAGAAGAAGAGGAAAAGGACAAGCAGCCGGGAGAG
ACCAATGACCTGAGCGCTCCTAAGAAATGCCGAGCGCGCTTTGGCCTTGATCAACAGAATAACTGGTGC
GGCCCTTGCAGGAGAAAAAAAAGTGCGTTGCTACATACAAGGTGAAGGCAGCTGCCTCAGCCACCC
TCTTCAGATGGAAGCTTACTAGATTGCGCTCCCCCTCCCGAACCTGCTAGGCTCCCCTCCCGAGAC
GCCAAGTCACAGACTGAGCAGACCCAGCCTCTGTGCTGTCCCTGAAGCCCGACCCCTGGCCACCTG
TCCATGATGCCTCCGCCACCGCCCTCTGTGCTGCTGAGGCCACCCACAAGGCCTCCGCCCTGTGCCC
AACGGGGCCTGGACCTGCCCCAGCCGCTTTCAGCCTGCCGCCCTCCTCATCAATTGCACAGCCG
TCGACTTCTTCTTACATTCCCACAGCTCCCTGGCCGGGACCCAGCCCCAGCCGCTGTCGCTCGTACC
AAGTCTTTAGAAAGTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI
ACCN: NM_001146285
Insert Size: 1740 bp

OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	NM_001146285.1
RefSeq Size:	3953 bp
RefSeq ORF:	1740 bp
Locus ID:	6934
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
MW:	63.4 kDa

Gene Summary:

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]

Transcript Variant: This variant (5) has multiple differences in the coding region but maintains the reading frame, compared to variant 1. This variant encodes isoform 5, which 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.