

## Product datasheet for **RC228906**

### TCF7L2 (NM\_001146284) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TCF7L2 (NM_001146284) Human Tagged ORF Clone
Tag:	Myc-DDK
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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**ORF Nucleotide Sequence:**

>RC228906 representing NM\_001146284  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCGACGTGAACGGCGGTGGAGGGGATGACCTAGGCGCCAACGACGAACTGATTTCTTCAAAGACG  
 AGGGCGAACAGGAGGAGAAGAGCTCCGAAAACCTCTCGGCAGAGAGGGATTTAGCTGATGTCAAATCGTC  
 TCTAGTCAATGAATCAGAAACGAATCAAAAACAGCTCCTCCGATTCGAGGCGGAAAGACGGCCTCCGCC  
 CGCTCCGAAAGTTTCCGAGACAAATCCCGGAAAGTTTGAAGAAGCGGCAAGAGGCAAGATGGAGGGC  
 TCTTTAAGGGGCCACCGTATCCCGGCTACCCCTTCATCATGATCCCCGACCTGACGAGCCCTACCTCCC  
 CAACGGATCGCTCTCGCCACCGCCGAACCTATCTCCAGATGAAATGGCCACTGCTTGTGTCCAGGCA  
 GGGAGCCTCCAGAGTAGACAAGCCCTCAAGGATGCCCGGTCCCCATCACCGGCACACATTGTCTTAACA  
 AAGTGCCAGTGGTGCAGCACCCCTACCATGTCCACCCCTCACGCCTTTATCACGTACAGCAATGAACA  
 CTTACGCGGGAAACCCACCTCCACACTTACCAGCCGACGTAGACCCAAAACAGGAATCCACGGCCT  
 CCGCACCTCCAGATATATCCCGTATTACCCACTATCGCTGGCACCGTAGGACAAATCCCCATCCGC  
 TAGGATGGCAAGGTCAACCAGTGTACCCAAATCACGACAGGAGGATTCAGACACCCCTACCCACAGCTCT  
 GACCGTCAATGCTTCCATGTCCAGGTTCCCTCCCATATGGTCCCACCACATCATACGCTACACACGACG  
 GGCATTCGCAATCCGGCCATAGTCACACCAACAGTCAAACAGGAATCGTCCCAGAGTGTGTCCGGCTCAC  
 TCCATAGTTCAAAGCATCAGGACTCCAAAAAGGAAGAAGAAAGAAGAGCCCAATAAAGAAACCTCT  
 TAATGCATTATGTTGTATGAAGGAAATGAGAGCAAAGGTCGTAGCTGAGTGCACGTTGAAAGAAAGC  
 GCGGCCATCAACCAGATCCTTGGGCGGAGGTGGCATGCACTGTCCAGAGAAGAGCAAGCGAAATACTACG  
 AGCTGGCCCGGAAGGAGCGACAGCTTCATATGCAACTGTACCCCGGCTGGTCCGCGGGGATAACTATGG  
 AAAGAAGAAGAAGAGGAAAAGGACAAGCAGCCGGGAGAGACCAATGAACACAGCGAATGTTTCCTAAAT  
 CCTTGCCTTTCACTTCTCCGATTACAGGAGAAAAAAAAGTGCCTCGCTACATACAAGGTGAAGGCAG  
 CTGCCTCAGCCACCTTTCAGATGGAAGCTTAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC228906 representing NM\_001146284  
 Red=Cloning site Green=Tags(s)

MPQLNGGGDDLGANDELISFKDEGEQEEKSSENSAERDLADVKSSLVNESETNQSSSDSEAERRPPP  
 RSEFRDKSRESLEEAARKQDGGFLKGGPPYPGYPFIMIPDLTSPYLPNGSLSPARTYLYQMKWPLLDVQA  
 GSLQSRQALKDARSPSPAHIVSNKVPVQHPHHVHPLTPLITYSNEHFTPGNPPHLPADVDPKTGIPRP  
 PHPPDISPYYPPLSPGTVGQIPHPLGWQGPVYPIITGGFRHPYPTALTVNASMSRFPHPMVPHTLHTT  
 GIPHPAIVTPTVKQESSQSDVGSLSHSSKHQDSKKEEKKKPHIKKPLNAFMLYMKEMRAKVVAECTLKES  
 AAINQILGRRWHALSREEQAKYELARKERQLHMQLYPGWSARDNYGKKKKRKRDKQPGETNEHSECFLN  
 PCLSLPPIITGEKKSATYKVKAAASAHLQMEAY

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_001146284

**ORF Size:** 1365 bp

**OTI Disclaimer:** 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:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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:**

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\\_001146284.2](#)

**RefSeq ORF:** 1368 bp

**Locus ID:** 6934

**UniProt ID:** [Q9NQB0](#)

**Cytogenetics:** 10q25.2-q25.3

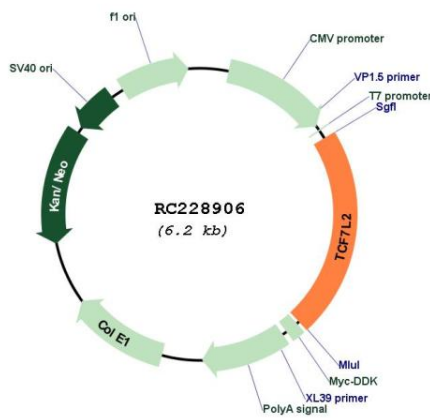
**Protein Families:** Druggable Genome, Transcription Factors

**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:** 50.4 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]

**Product images:**



Circular map for RC228906