

## Product datasheet for **RC228470**

### TCF7L2 (NM\_001146285) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TCF7L2 (NM_001146285) 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:**

>RC228470 representing NM\_001146285  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCGACGTGAACGGCGGTGGAGGGGATGACCTAGGCGCCAACGACGAACTGATTTCTTCAAAGACG  
 AGGGCGAACAGGAGGAGAAGAGCTCCGAAAACCTCTCGGCAGAGAGGGATTTAGCTGATGTCAAATCGTC  
 TCTAGTCAATGAATCAGAAACGAATCAAAACAGCTCCTCCGATTCGAGGCGGAAAGACGGCCTCCGCCCT  
 CGCTCCGAAAGTTTCCGAGACAAATCCCGGAAAGTTTGAAGAAGCGGCCAAGAGGCAAGATGGAGGGC  
 TCTTTAAGGGGCCACCGTATCCCGGCTACCCCTTCATCATGATCCCCGACCTGACGAGCCCTACCTCCC  
 CAACGGATCGCTCTCGCCACCGCCCGAACCTATCTCCAGATGAAATGGCCACTGCTTGTGTCCAGGCA  
 GGGAGCCTCCAGAGTAGACAAGCCCTCAAGGATGCCCGGTCCCCATACCGGCACACATTGTCTTAACA  
 AAGTGCCAGTGGTGCAGCACCCCTCACCATGTCCACCCCTCACGCCTTTATCACGTACAGCAATGAACA  
 CTTACGCGGGAAACCCACCTCCACACTTACCAGCCGACGTAGACCCAAAACAGGAATCCACGCGCT  
 CCGCACCTCCAGATATATCCCGTATTACCCACTATCGCTGGCACCGTAGGACAAATCCCCATCCGC  
 TAGGATGGTTAGTACCACAGCAAGGTCAACCAGTGTACCCAATCACGACAGGAGGATTCAGACACCCCTA  
 CCCCACAGCTCTGACCGTCAATGCTTCCATGTCCAGGTTCCCTCCCCATATGGTCCCACCACATCATACG  
 CTACACACGACGGGCAATCCGCATCCGGCCATAGTCACACCAACAGTCAAACAGGAATCGTCCCAGAGTG  
 ATGTCGGCTCACTCCATAGTTCAAAGCATCAGGACTCCAAAAGGAAGAAGAAAAGAAAGCCACAT  
 AAAGAACTCTTAATGCATTATGTTGTATATGAAGGAAATGAGAGCAAAGGTCGTAGCTGAGTGCAGC  
 TTGAAAGAAGCGCGCCATCAACCAGATCCTTGGCGGAGGTGGCATGCACTGTCCAGAGAAGAGCAAG  
 CGAAATACTACGAGCTGGCCCGGAAGGAGCGACAGCTTCATATGCAACTGTACCCCGCTGGTCCGCGCG  
 GGATAACTATGGAAAGAAGAAGAAGAGGAAAGGACAAGCAGCGGAGAGACCAATGACCTGAGCGCT  
 CCTAAGAAATGCCGAGCGCGCTTTGGCCTTGATCAACAGAATAACTGGTGCGGCCCTTGCAGGAGAAAA  
 AAAAGTGCCTTGCCTACATACAAGGTGAAGGCAGCTGCCTCAGCCACCCTCTTCAGATGGAAGCTTACT  
 AGATTCGCTCCCCCTCCCGAACCTGCTAGGCTCCCTCCCCGAGACGCCAAGTCACAGACTGAGCAG  
 ACCCAGCCTCTGTCGCTGTCCCTGAAGCCCGACCCCTGGCCACCTGTCCATGATGCCTCCGCCACCCG  
 CCCTCTGCTCGCTGAGGCCACCACAAGGCCTCCGCCCTGTGCCAACGGGGCCCTGGACCTGCCCC  
 AGCCGCTTTGACGCTGCCGCCCTCCTCATCAATTGCACAGCCGTCGACTTCTCTTACATTCCAC  
 AGCTCCCTGGCCGGGACCAGCCCGAGCCGCTGTGCTCGTCACCAAGTCTTTAGAA

**ACGCGT**ACGCGGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC228470 representing NM\_001146285  
 Red=Cloning site Green=Tags(s)

MPQLNGGGDDLGANDELSFKDEGEQEEKSSENSAERDLADVKSLLVNESETNQSSDSEAERRPPP  
 RSESFDRKSRESLEEAQRQDGGFLFKGPPYPGYPFIMIPDLTSPYLPNGSLSPARTYLQMKWPLLDVQA  
 GSLQSRQALKDARSPSPAHIVSNKVPVQHPHHVHPLTPLITYSNEHFTPGNPPHLPADVDPKTIIPRP  
 PHPPDISPYYPPLSPGTVGQIPHPLGWLVPQQQPVPYITGGFRHPYPTALTVNASMSRFPHPMVPPHHT  
 LHTTGIPHPAIVTPTVKQESSQSDVGLSHSSKHQDSKKEEKKKPHIKKPLNAFMLYMKEMRAKVVAECT  
 LKESAAINQILGRRWHALSREEQAKYYELARKERQLHMQLYPGWSARDNYGKKKRRKDKQPGETNDLSA  
 PKKCRARFGLDQQNWCGPCRRKKKCVRYIQEGSCLSPSSDGSLLDSPPPSPNLLGSPPRDAKSQTEQ  
 TQPLSLSLKPDPLAHLSPMPPPALLLAETHKASALCPNGALDLPPAALQPAAPSSSIAQPSTSSLSHSH  
 SSLAGTQPQPLSLVTKSLE

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8068\\_b11.zip](https://cdn.origene.com/chromatograms/mk8068_b11.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**

**ACCN:** NM\_001146285

**ORF Size:** 1737 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](mailto: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](#)

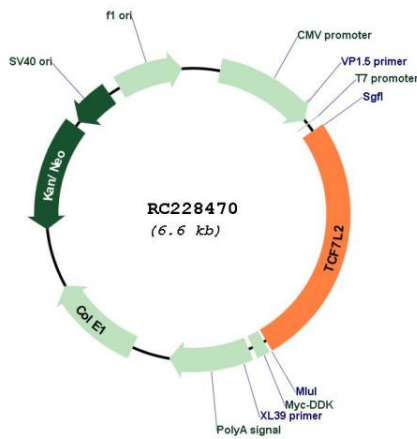
**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\_001146285.1, NP\_001139757.1  
**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:** 63.2 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 RC228470