

Product datasheet for **RG228470**

TCF7L2 (NM_001146285) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TCF7L2 (NM_001146285) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TCF7L2
Synonyms:	TCF-4; TCF4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG228470 representing NM_001146285
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCGACGTGAACGGCGGTGGAGGGGATGACCTAGGCGCCAACGACGAACTGATTTCTTCAAAGACG
 AGGGCGAACAGGAGGAGAAGAGCTCCGAAAACCTCTCGGCAGAGAGGGATTTAGCTGATGTCAAATCGTC
 TCTAGTCAATGAATCAGAAACGAATCAAAACAGCTCCTCCGATTCGAGGCGGAAAGACGGCCTCCGCCCT
 CGCTCCGAAAGTTTCCGAGACAAATCCCGGAAAGTTTGAAGAAGCGGCCAAGAGGCAAGATGGAGGGC
 TCTTTAAGGGGCCACCGTATCCCGGCTACCCCTTCATCATGATCCCCGACCTGACGAGCCCTACCTCCC
 CAACGGATCGCTCTCGCCACCGCCCGAACCTATCTCCAGATGAAATGGCCACTGCTTGTGTCCAGGCA
 GGGAGCCTCCAGAGTAGACAAGCCCTCAAGGATGCCCGGTCCCCATCACCAGGACACATTGTCTTAACA
 AAGTGCCAGTGGTGCAGCACCCCTCACCATGTCCACCCCTCACGCCTTTATCACGTACAGCAATGAACA
 CTTACGCGGGAAACCCACCTCCACACTTACCAGCCGACGTAGACCCAAAACAGGAATCCACGGCCT
 CCGCACCTCCAGATATATCCCGTATTACCCACTATCGCTGGCACCGTAGGACAAATCCCCATCCGC
 TAGGATGGTTAGTACCACAGCAAGGTCAACCAGTGTACCAATCAGACAGGAGGATTCAGACACCCCTA
 CCCCACAGCTCTGACCGTCAATGCTTCCATGTCCAGGTTCCCTCCCCATATGGTCCCACCACATCATACG
 CTACACACGACGGGCAATCCGCATCCGGCCATAGTCACACCAACAGTCAAACAGGAATCGTCCCAGAGTG
 ATGTCGGCTCACTCCATAGTTCAAAGCATCAGGACTCCAAAAGGAAGAAGAAAGAAAGAGCCCAT
 AAAGAAACCTCTTAATGCATTATGTTGTATATGAAGGAAATGAGAGCAAAGGTCGTAGCTGAGTGCAGC
 TTGAAAGAAAGCGCGCCATCAACCAGATCCTTGGCGGAGGTGGCATGCACTGTCCAGAGAAGAGCAAG
 CGAAATACTACGAGCTGGCCCGGAAGGAGCGACAGCTTCATATGCAACTGTACCCCGCTGGTCCGCGCG
 GGATAACTATGGAAAGAAGAAGAAGAGGAAAGGACAAGCAGCGGAGACCAATGACCTGAGCGCT
 CCTAAGAAATGCCGAGCGCCTTTGGCCTTGATCAACAGAATAACTGGTGGCCCTTGCAGGAGAAAAA
 AAAAGTGCCTTGCCTACATACAAGGTGAAGGCAGCTGCCTCAGCCACCCTCTTCAGATGGAAGCTTACT
 AGATTCGCTCCCCCTCCCGAACCTGCTAGGCTCCCTCCCCGAGACGCCAAGTACAGACTGAGCAG
 ACCCAGCCTCTGTCGCTGTCCCTGAAGCCCGACCCCTGGCCACCTGTCCATGATGCCTCCGCCACCCG
 CCCTCTGCTCGCTGAGGCCACCACAAGGCCTCCGCCCTGTGCCAACGGGGCCCTGGACCTGCCCC
 AGCCGCTTTGAGCCTGCCGCCCTCCTCATCAATTGCACAGCCGTCGACTTCTCCTTACATCCAC
 AGCTCCCTGGCCGGGACCAGCCAGCCGCTGTGCTCGTCACCAAGTCTTAGAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG228470 representing NM_001146285
 Red=Cloning site Green=Tags(s)

MPQLNGGGDDLGANDELISFKDEGEQEEKSENSSAERDLADVKSSLVNESETNQSSSDSEAERRPPP
 RSESFDRKSRESLEEAARKRQDGLFKGPPYPGYPFIMIPDLTSPYLPNGSLSPARTYLQMKWPLLDVQA
 GSLQSRQALKDARSPSPAHIVSNKVPVQHPHHVHPLTPLITYSNEHFTPGNPPHLPADVDPKTIIPRP
 PHPPDISPYPLSPGTVGQIPHPLGWLVPQQGQPVYPIITGGFRHPYPTALTVNASMSRFPHPMVPPHHT
 LHTTGIPHPAIVTPTVKQESSQSDVGSLSHSSKHQDSKKEEKKKPHIKKPLNAFMLYMKEMRAKVVAECT
 LKESAAINQILGRRWHALSREEQAKYYELARKERQLHMQLYPGWSARDNYGKKKKRKRDKQPGETNDLSA
 PKKCRARFGLDQNNWCGPCRKKKCVRYIQEGESCLSPSSDGSLLDSPPPSPNLLGSPPRDAKSQTEQ
 TQPLSLKPDPLAHL SMMPPPPALLLAEATHKASALCPNGALDLPPAALQPAAPSSSIAQPSTSSLHSH
 SSLAGTQPQPLSLVTKSLE

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

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 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](#)

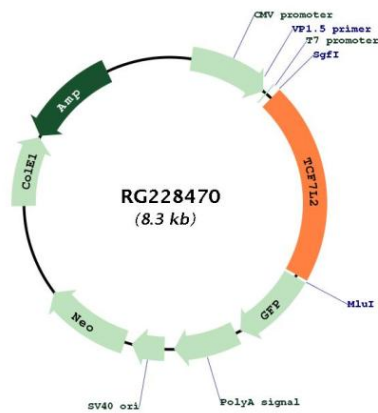
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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 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
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 RG228470