

Product datasheet for **RG231262**

TCF7L2 (NM_001198525) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TCF7L2 (NM_001198525) 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:

>RG231262 representing NM_001198525
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCCGACGTGAACGGCGGTGGAGGGGATGACCTAGGCGCCAACGACGAACTGATTTCTTCAAAGACG
 AGGGCGAACAGGAGGAGAAGAGCTCCGAAAACCTCTCGGCAGAGAGGGATTTAGCTGATGTCAAATCGTC
 TCTAGTCAATGAATCAGAAACGAATCAAAAACAGCTCCTCCGATTCGAGGCGGAAAAGACGGCCTCCGCT
 CGCTCCGAAAAGTTCCGAGACAAATCCCGGAAAGTTTGAAGAAGCGGCCAAGAGGCAAGATGGAGGGC
 TCTTTAAGGGGCCACCGTATCCCGGCTACCCCTTCATCATGATCCCCGACCTGACGAGCCCTACCTCCC
 CAACGGATCGCTCTCGCCACCGCCGAACCTATCTCCAGATGAAATGGCCACTGCTTGTGTCCAGGCA
 GGGAGCCTCCAGAGTAGACAAGCCCTCAAGGATGCCCGGTCCCATCACCGGCACACATTGTCTTAACA
 AAGTGCCAGTGGTGCAGCACCCCTACCATGTCCACCCCTCACGCCTTTATCACGTACAGCAATGAACA
 CTTACGCGGGAAACCCACCTCCACACTTACCAGCCGACGTAGACCCAAAACAGGAATCCACGGCCT
 CCGCACCTCCAGATATATCCCGTATTACCCACTATCGCTGGCACCGTAGGACAAATCCCCATCCGC
 TAGGATGGTTAGTACCACAGCAAGGTCAACCAGTGTACCCAATCACGACAGGAGGATTCAGACACCCCTA
 CCCCACAGCTCTGACCGTCAATGCTTCCATGTCCAGCTTTCTGTCTTCTAGGTTCCCTCCCATATGGTC
 CCACCACATCATACGCTACACACGACGGCATTCCGCATCCGGCCATAGTCACACCAACAGTCAAACAGG
 AATCGTCCAGAGTGTGTCGGCTCACTCCATAGTTCAAAGCATCAGGACTCCAAAAAGGAAGAAGAAA
 GAAGAAGCCACATAAAGAAACCTCTTAATGCATTATGTTGTATGAAGGAAATGAGAGCAAAGGTC
 GTAGCTGAGTGCACGTTGAAAGAAAGCGCGCCATCAACCAGATCCTTGGGCGGAGGTGGCATGCACTGT
 CCAGAGAAGAGCAAGCGAAATACTACGAGCTGGCCCGAAGGAGGACAGCTTCATATGCAACTGACCC
 CGGCTGGTCCGCGGGATAACTATGGAAGAAGAAGAAGAGGAAAAGGACAAGCAGCCGGGAGAGACC
 AATGAACACAGCGAATGTTTCCTAAATCCTTGCCTTTCACTTCTCCGATTACAGACCTGAGCGCTCCTA
 AGAAATGCCGAGCGCGCTTTGGCCTTGATCAACAGAATAACTGGTGCGGCCCTTGACAGTCAAATACTC
 CAAAGAAGTGTCGGGCACTGTTCCGGCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG231262 representing NM_001198525
 Red=Cloning site Green=Tags(s)

MPQLNGGGDDL GANDELISFKDEGEQEEKSSSENSAERDLADV KSSLVNESETNQSSSDSEAERRPPP
 RSE SFRDKSRESLEEAARKQDGLFKGPPYPGYPFIMIPDLTSPYLPNGSL SPTARTYLQMKWPLLDVQA
 GSLQSRQALKDARSPSPAHIVSNKVPVQHPHHVHPLTPLITYSNEHFTPGNPPPHLPADVDPKTGIPRP
 PHPPDISPYYPPLSPGTVGQIPHPLGWLVPQQGQVYPIITGGFRHPYPTALTVNASMSSFLSSRFPPHMV
 PPHHTLHTTGIPHPAIVTPTVKQESSQSDVGLHSSKHQDSKKEEKKPHIKKPLNAFMLYMKEMRAKV
 VAECTLKESAAINQILGRRWHALSREEQAKYYELARKERQLHMQLYPGWSARDNYGKKKRRKRDQPGET
 NEHSECLNPCLSLPPITDLSAPKKCRARFGLDQNNWCGPCRCKYSKEVSGTVRA

TRTRPLE – GFP Tag – V

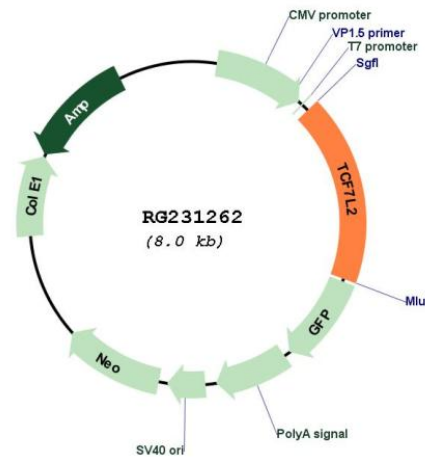
Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



Plasmid Map:



ACCN: NM_001198525

ORF Size: 1428 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:	<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_001198525.2
RefSeq Size:	4092 bp
RefSeq ORF:	1431 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]