

Product datasheet for **RG208913**

TCF7L1 (NM_031283) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TCF7L1 (NM_031283) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TCF7L1
Synonyms:	TCF-3; TCF3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG208913 representing NM_031283
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCCCCAGCTCGGCGGGGGGCGGCGGGCGGCGGCGGCGAGCGGGGAGCGCGGCTCCAGCGCCG
GGCGGCCGCGGAGGGGACGACCTCGGGGCGAACGACGAGCTGATCCCCCTCCAGGACGAGGGGGCGA
GGAGCAGGAGCCGAGCAGCGATAGCGCCTCGGCGCAGCGGGACCTAGACGAGGTCAAGTCGTCCCTGGTC
AACGAGTCGGAGAACCAGAGCAGCAGCTCGGACTCGGAGGCGGAGAGGCGCCGACGCCGTCGCGGACA
CTTTCCAGAAGCCGCGGACTATTTCCGCGAAGTGAGAAGGCTCAGGACAGCGGTTCTTTAAAGGACC
CCCGTACCCTGGTACCCTTCTGATGATCCCGACCTGAGCAGCCGTACCTCTCCAACGACCCCTG
TCTCCCGAGGAGCGGCACCTACCTGCAGATGAAATGGCCCTCCTCGATGTCCCTCCAGCGCCACAG
TCAAGGACACGAGGTACCATCTCCAGCACACTGTCTAATAAAGTTCTGTCTCAGCACCCGCATCA
CATGCATCCGCTGACTCCCCTCATCACCTACAGCAATGACCCTTCTCCCCGGCTCCCCTCCACCCAC
CTCTCCCAGAGATCGATCCAAAGACAGGAATCCCCCGGCCCTCACCCATCCGAGCTGTACCCTATT
ACCCACTCTCTCCCGGAGCTGTCCGACAATCCCCACCCCTCGGCTGGCTCGTCCCACAGCAAGGCCA
GCCCATGTACTCCCTTCTCCCGGTGGCTTCCGGCACCCTTACCCCGCCCTCGCCATGAACGCCTCGATG
TCCAGCCTGGTCTCCAGTCGGTTCTCTCCTCACATGGTGGCTCCTGCCACCCCTGGCCTGCCACCTCAG
GGATCCCCCACCCTGCCATCGTCTCCCCATCGTCAAGCAGGAACCGGCACCCCCAGCCTGAGCCCTGC
AGTGAGCGTGAATCACCACTCACCGTGAAGAGGAGGAGGAAAGAACCCACGTGAAGAAGCCTCTG
AATGCCTTCATGTTGTATGAAGGAGATGAGGGCCAAGTGGTGGCTGAGTGCACCTGAAGGAAAGTG
CAGCCATTAACCAAGATCCTTGAAGAAAGTGACACAACCTGTCTCGAGAAGAACAGGCCAAGTACTCGA
GCTGGCCCGGAAGGAGCGGCGAGCTTCACTCGCAGCTTACCCAACCTGGTCAGCCCGGACAACCTATGGT
AAGAAAAAGAAGAGGAAGAGAGAAAAGCAGCTGTCCAGACACAGTACAGCAGCAAGTCCAGGAGCGAG
AGGGTGCCTGGCCTCCAAGAGCAAGAAGCCATGTGTTTCACTGCCCCCGAGAAGCCTGTGACAG
CCCTGCCTCTCCACGGGAGCATGCTGGACTCCCGGCCACTCCTCTGCAGCTTTGGCCTCACCAGCT
GCCCTGTGCCACCCATTCCGAGCAAGCCAGCCCTCTCCCTCACCACAAACCAGAAAACCCGGGCC
AGCTGGCTCTCCACTCTGCCCTTCTGTCCGCTAAGGCTGACGCTCCTCTCTGGGAGATGGGCAG
CCAGCCTCCCCTCTGTCCCGGCCCTCCCCTTGGGTCATGCCACAGCTCTGCTGGCCTCTCCCCG
TCCTTCCCGCCACGCTCCATGCCACCAGGCCCTCCCGGTGCTACAGGCCCAGCCTCTTCCCTGGTCA
CCAAGTCTGCCAC

ACGCGTACGCGGGCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG208913 representing NM_031283
Red=Cloning site Green=Tags(s)

MPQLGGGGGGGGGGSSAGAAGGDDLGANDELIPFQDEGGEEQEPSSDSASAQRDLDEVKSSLV
NESENQSSSDSEAERRPQVRDTFQKPRDYFAEVRPQDSAFFKGPPYPGYPFLMIPDLSSPYLSNGPL
SPGGARTYLQMKWPLLDVPSSATVKDTRSPSPAHL SNKVPVVQHPHMHPL TPLITYSNDHFSPGSPPTH
LSPEIDPKTGIPRPPHSELSPYYPLSPGAVGQIPHPLGWLVPQQGQPMYSLPPGGFRHPYPALAMNASM
SSLVSSRFSPHMAHPGLPTSGIPHPAIVSPIVKQEPAPPSLSPAVSVKSPVTVKKEEEKPHVKKPL
NAFMLYMKEMRAKVVAECTLKESAAINQILGRKWHNLSREEQAKYYELARKERQLHSQLYPTWSARDNYG
KKKKRKREKQLSQTQSQQVQEAEGALASKKPCVQYLPEKPCDSPASSHGSM L DSPATPSAALSPA
APAATHSEQAQLSLTTPETRAQLALHSAFLSAKAAASSSQMG SQPPLL SRPLPLGSMPTALLASPP
SFPATLHAHQALPVLQAQPLSLVTKSAH

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_031283

ORF Size: 1764 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](#)

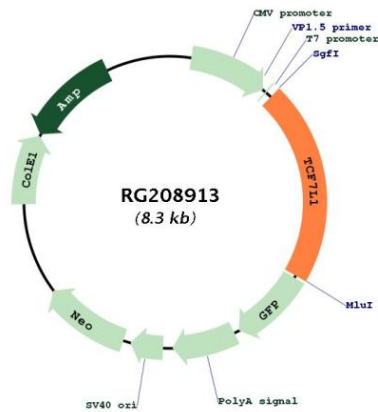
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_031283.3](#)
RefSeq Size: 2932 bp
RefSeq ORF: 1767 bp
Locus ID: 83439
UniProt ID: [Q9HCS4](#)
Cytogenetics: 2p11.2
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 member of the T cell factor/lymphoid enhancer factor family of transcription factors. These transcription factors are activated by beta catenin, mediate the Wnt signaling pathway and are antagonized by the transforming growth factor beta signaling pathway. The encoded protein contains a high mobility group-box DNA binding domain and participates in the regulation of cell cycle genes and cellular senescence. [provided by RefSeq, Nov 2010]

Product images:



Circular map for RG208913