

Product datasheet for **MC215969**

Tcf7l2 (NM_001142921) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tcf7l2 (NM_001142921) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tcf7l2
Synonyms:	Tcf-4; Tcf4; TCF4B; TCF4E
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC215969 representing NM_001142921
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCGACGTGAACGGCGGTGGAGGAGATGACCTAGGCGCTAACGACGAGCTGATCTCCTTCAAAGACG
 AAGGCGAGCAGGAGGAGAAGAACTCGGAAAACCTCGGCGGAAAAGGATTTAGCCGATGTCAAGTCCTC
 GCTGGTCAATGAATCAGAGACGAATCAAAAACAGCTCCTCCGATTCGAGGCGGAAAAGACGGCCTCCGCT
 CGCTCCGAAAAGTTCCGAGATAAATCCCGGAAAGTTTGAAGAAGCGGCCAAGAGGCAAGATGGAGGGC
 TCTTTAAGGGGCCACCGTATCCCGGCTACCCCTTCATCATGATCCCCGACCTGACGAGCCCTACCTCCC
 CAACGGATCGCTCTCGCCACCGCCGAACCTATCTTCAGATGAAATGGCCACTGCTTGTGTCCAAGCA
 GGAAGCCTCCAGAGCAGACAAACCCTCAAGGATGCTCGTTCGCCGTCGCCAGCACACATCGTTTCGAACA
 AAGTACCGGTGGTCAACACCCCAACCATGTCCACCCACTCACGCTCTCATCACGTACAGCAATGAACA
 CTTACCCCGGAAATCCACCTCCGCACTTACCAGCTGACGTAGACCCCAAAACAGGAATCCCAAGGCC
 CCGCACCTCCAGATATCTCCATATTACCCGCTGTCGCCCGGACCGTAGGACAAATCCCCATCCGC
 TAGGATGGTTAGTACCACAGCAAGGTCAGCCTGTGTACCCAATCAGACAGGAGGATTCAGACACCCCTA
 CCCACAGCGCTGACAGTCAACGCATCTATGTCTAGCTTTCTGTCTCTAGGTTCCCTCCCATATGGTC
 CCTCCCCATCACACTCTGCACACGACCGGCATCCCTCACCCGGCCATCGTCACACCGACAGTCAAGCAGG
 AATCCTCCAGAGTGACGTGGCTCACTCCACAGCTCAAAGCATCAGGACTCCAAAAAGGAAGAAGAGAA
 GAAGAAGCCACATAAAGAAGCCCTTAATGCATTCAATGTTGTATGAAAGAGATGAGAGCGAAGGTG
 GTGGCCGAATGCACATTGAAAGAGAGTGCAGCCATCAACCAGATTCTCGGGCGCAGGTGGCACGCCCTGT
 CCAGGGAAGAACAGGCAAAATACTACGAGCTGGCCCGAAGGAACGACAGCTTCACATGCAGCTGTACCC
 TGGCTGGTCTGCACGGGATAACTATGGGAAGAAGAAGAGAAAAAGAGACAAGCAGCCGGGGAAACC
 AACGGAGAAAAAAAAGTGCCTTCGCTACATACAGGTGAAGGCAGCTGCCTCAGCCACCCCTTTCAGA
 TGAAGCTTACTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001142921

Insert Size: 1344 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_001142921.1](#), [NP_001136393.1](#)

RefSeq Size: 4029 bp

RefSeq ORF: 1344 bp

Locus ID: 21416

UniProt ID: [Q924A0](#)

Cytogenetics: 19 51.59 cM

Gene Summary: Participates in the Wnt signaling pathway and modulates MYC expression by binding to its promoter in a sequence-specific manner. Acts as repressor in the absence of CTNNB1, and as activator in its presence. Activates transcription from promoters with several copies of the Tcf motif CCTTTGATC in the presence of CTNNB1. TLE1, TLE2, TLE3 and TLE4 repress transactivation mediated by TCF7L2/TCF4 and CTNNB1. Expression of dominant-negative mutants results in cell-cycle arrest in G1 (By similarity). Necessary for the maintenance of the epithelial stem-cell compartment of the small intestine.[UniProtKB/Swiss-Prot Function]