

Product datasheet for **MC215808**

Tcf7l2 (NM_001142923) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tcf7l2 (NM_001142923) 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
Fully Sequenced ORF: >MC215808 representing NM_001142923
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCCGCAGCTGAACGGCGGTGGAGGAGATGACCTAGGCGCTAACGACGAGCTGATCTCCTTCAAAGACG
AAGCGCAGCAGGAGGAGAAGAACTCGGAAAACCTCTCGCGGAAAGGGATTTAGCCGATGTCAAGTCCTC
GCTGGTCAATGAATCAGAGACGAATCAAACAGCTCCTCCGATTCGAGGCGGAAAGACGGCCTCCGCT
CGCTCCGAAAGTTCCGAGATAAATCCCGGAAAGTTTGAAGAAGCGGCAAGAGGCAAGATGGAGGGC
TCTTTAAGGGGCCACCGTATCCCGGCTACCCCTTCATCATGATCCCCGACCTGACGAGCCCTACCTCCC
CAACGGATCGCTCTCGCCACCGCCGAACCTATCTTCAGATGAAATGGCCACTGCTTGATGTCCAAGCA
GGAAGCCTCCAGAGCAGACAAACCTCAAGGATGCTCGTTCGCGCTCGCCAGCACACATCGTTTCGAACA
AAGTACCGGTGGTGAACACCCCAACATGTCCACCCACTCACGCTCTCATCACGTACAGCAATGAACA
CTTACCCCGGAAATCCACCTCCGCACTTACCAGCTGACGTAGACCCAAAAACAGGAATCCCAAGGCT
CCGCACCCTCCAGATATCTCCATATTACCCGCTGTCCCGGACCGTAGGACAAAATCCCCATCCGC
TAGGATGGTTAGTACCACAGCAAGGTGAGCTGTGTACCCAATCAGCAGGAGGATTGAGACCCCTA
CCACACAGCGCTGACAGTCAACGCATCTATGTCTAGGTTCCCTCCCATATGGTCCCTCCCATCACACT
CTGCACACGACCGGCATCCCTCACCCGGCCATCGTCACACCGACAGTCAAGCAGGAATCCTCCAGAGTG
ACGTCGGCTCACTCCACAGCTCAAAGCATCAGGACTCCAAAAAGGAAGAAGAGAAGAAGAAGCCCCACAT
AAAGAAGCCCTTAATGCATTATGTTGTATATGAAAGAGATGAGAGCGAAGGTGGTGGCCGAATGCACA
TTGAAAGAGAGTGACCCATCAACCAGATTCTCGGGCGCAGGTGGCACGCCCTGTCCAGGGAAGAACAGG
CAAAATACTACGAGCTGGCCGGAAGGAACGACAGCTTCACATGCAGCTGTACCTGGCTGGTCTGCACG
GGATAACTATGGGAAGAAGAAGAAGAGAAAAAGAGACAAGCAGCCGGGGAAACCAACGGAGAAAAAAA
AGTGCGTTCGCTACATAAAGGTGAAGGACAGCTGCCTCAGCCACCTCTTCAGATGGAAGCTTACTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001142923
Insert Size:	1329 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:	<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:	<u>NM_001142923.1</u> , <u>NP_001136395.1</u>
RefSeq Size:	4014 bp
RefSeq ORF:	1329 bp
Locus ID:	21416
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]