

## Product datasheet for **MR224180**

### Tcf7l2 (NM\_001142921) Mouse Tagged ORF Clone

#### Product data:

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



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**ORF Nucleotide Sequence:**

>MR224180 representing NM\_001142921  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCCCGAGCTGAACGGCGGTGGAGGAGATGACCTAGGCGCTAACGACGAGCTGATCTCCTTCAAAGACG  
 AAGGCGAGCAGGAGGAGAAGAACTCGGAAAACCTCTCGGCGGAAAGGATTTAGCCGATGTCAAGTCCTC  
 GCTGGTCAATGAATCAGAGACGAATCAAAAACAGCTCCTCCGATTCGAGGCGGAAAGACGGCCTCCGCC  
 CGCTCCGAAAGTTCCGAGATAAATCCCGGAAAGTTTGAAGAAGCGGCAAGAGGCAAGATGGAGGGC  
 TCTTTAAGGGGCCACCGTATCCCGGCTACCCCTTCATCATGATCCCCGACCTGACGAGCCCTACCTCCC  
 CAACGGATCGCTCTCGCCACCGCCGAACCTATCTTCAGATGAAATGGCCACTGCTTGTGTCCAAGCA  
 GGAAGCCTCCAGAGCAGACAAACCCTCAAGGATGCTCGTTCGCCGTCGCCAGCACACATCGTTTCGAACA  
 AAGTACCGGTGGTCAACACCCCAACATGTCCACCCACTCACGCTCTCATCACGTACAGCAATGAACA  
 CTTACCCCGGAAATCCACCTCCGCACTTACCAGCTGACGTAGACCCCAAAACAGGAATCCAAGGCCCT  
 CCGCACCTCCAGATATCTCTCATATTACCCGCTGTCGCCCGGCACCGTAGGACAAATCCCCATCCGC  
 TAGGATGGTTAGTACCACAGCAAGGTCAGCCTGTGTACCCAATCACGACAGGAGGATTCAGACACCCCTA  
 CCCCACAGCGCTGACAGTCAACGCATCTATGTCTAGCTTTCTGTCTCTAGGTTCCCTCCCATATGGTC  
 CCTCCCCATCACACTCTGCACACGACCGGCATCCCTCACCCGGCCATCGTCACACCGACAGTCAAGCAGG  
 AATCCTCCAGAGTGACGTGGCTCACTCCACAGCTCAAAGCATCAGGACTCCAAAAAGGAAGAAGAGAA  
 GAAGAAGCCACATAAAGAAGCCCTTAATGCATTATGTTGTATGAAAGAGATGAGAGCGAAGGTG  
 GTGGCCGAATGCACATTGAAAGAGAGTGCAGCCATCAACCAGATTCTCGGGCGCAGGTGGCACGCCCTGT  
 CCAGGGAAGAACAGGCAAAATACTACGAGCTGGCCCGAAGGAACGACAGCTTACATGCAGCTGTACCC  
 TGCTGTGTCGACGGGATAACTATGGGAAGAAGAAGAAGAGAAAAAGAGACAAGCAGCCGGGGAAACC  
 AACGGAGAAAAAAAAGTGCCTTCGCTACATACAAGGTGAAGGCAGCTGCCTCAGCCACCCCTTTCAGA  
 TGAAGCTTAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR224180 representing NM\_001142921  
 Red=Cloning site Green=Tags(s)

MPQLNGGGDDL GANDELISFKDEGEQEEKNSSENSAERDLADVKSSLVNESETNQSSSDSEAERRPPP  
 RSEFRDKSRESLEEAARKRDGGLFKGPPYPGYPFIMIPDLTSPYLPNGSLSPARTYLMKWPLLDVQA  
 GSLQSRQTLKDARSPSPAHIVSNKVPVQHPHHVHPLTPLITYSNEHFTPGNPPHLPADVDPKTGIPRP  
 PHPPDISPYYPPLSPGTVGQIPHPLGWLVPQQGQVYPIITGGFRHPYPTALTVNASMSSFLSSRFPPHMV  
 PPHHTLHTTGIPHPAIVTPTVKQESSQSDVGLHSSKHQDSKKEEKKPHIKKPLNAFMLYMKEMRAKV  
 VAECTLKESAAINQILGRRWHALSREEQAKYYELARKERQLHMQLYPGWSARDNYGKKKKRKRDKQPGET  
 NGEKKSATYKVKAAASAHPLQMEAY

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

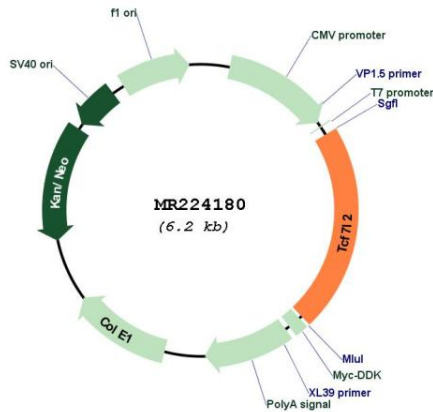


**Cytogenetics:** 19 51.59 cM

**MW:** 50.2 kDa

**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]

**Product images:**



Circular map for MR224180