

Product datasheet for **MR224173**

Tcf7l2 (NM_001142918) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tcf7l2 (NM_001142918) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tcf7l2
Synonyms:	Tcf-4; Tcf4; TCF4B; TCF4E
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>MR224173 representing NM_001142918
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCGACGTGAACGGCGGTGGAGGAGATGACCTAGGCGCTAACGACGAGCTGATCTCCTTCAAAGACG
 AAGGCGAGCAGGAGGAGAAGAACTCGGAAAACCTCTCGGCGGAAAGGATTTAGCCGATGTCAAGTCCTC
 GCTGGTCAATGAATCAGAGACGAATCAAAAACAGCTCCTCCGATTCGAGGCGGAAAGACGGCCTCCGCT
 CGCTCCGAAAAGTTCCGAGATAATCCCGGAAAGTTTGAAGAAGCGGCAAGAGGCAAGATGGAGGGC
 TCTTTAAGGGGCCACCGTATCCCGGCTACCCCTTCATCATGATCCCCGACCTGACGAGCCCTACCTCCC
 CAACGGATCGCTCTCGCCACCGCCGAACTATCTTCAGATGAAATGGCCACTGCTTGATGTCCAAGCA
 GGAAGCCTCCAGAGCAGACAAACCCTCAAGGATGCTCGTTCGCCGTCGCCAGCACACATCGTTTCGAACA
 AAGTACCGGTGGTCAACACCCCACTGTCCACCCACTCACGCTCTCATCACGTACAGCAATGAACA
 CTTACCCCGGAAATCCACCTCCGCACTTACCAGCTGACGTAGACCCAAAACAGGAATCCAAGGCCCT
 CCGCACCTCCAGATATCTCTCATATTACCCGCTGTCGCCCGCACCGTAGGACAAATCCCCATCCGC
 TAGGATGGTTAGTACCACAGCAAGTCAAGCTGTGTACCCAATCACGACAGGAGGATTCAGACACCCCTA
 CCCCACAGCGCTGACAGTCAACGCATCTATGTCTAGGTTCCCTCCCCATATGGTCCCTCCCCATCACT
 CTGCACACGACCGGCATCCCTCACCCGGCCATCGTCACACCGACAGTCAAGCAGGAATCCTCCAGAGTG
 ACGTCGGCTCACTCCACAGCTCAAAGCATCAGGACTCCAAAAGGAAGAAGAAGAAGAAGCCACAT
 AAAGAAGCCCTTAATGCATTATGTTGTATATGAAAGAGATGAGAGCGAAGGTGGTGGCCGAATGCACA
 TTGAAAGAGAGTGCAGCCATCAACCAGATTCTCGGGCGCAGGTGGCACGCCCTGTCCAGGGAAGAACAGG
 CAAAATACTACGAGCTGGCCCGGAAGGAACGACAGCTTACATGCAGTGTACCTGGCTGGTCTGCAGG
 GGATAACTATGGGAAGAAGAAGAAGAAAAAGAGACAAGCAGCCGGGGAAACCAACGAACACAGCGAA
 TGTTTCCTAAATCCTTGCTTTCTCGTTCCTCCGATCACAGACCTGAGCGCTCCTAAGAAATGCCGAGCGC
 GCTTTGGCCTTGATCAACAGAATAACTGGTGGGCCCTGCAGTCTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR224173 representing NM_001142918
 Red=Cloning site Green=Tags(s)

MPQLNGGGDDLGANDELISFKDEGEQEEKNSSENSAERDLADVKSSLVNESETNQSSSDSEAERRPPP
 RSESFDRKSRESLEEAARKRQDGLFKGPPYPGYPFIMIPDLTSPYLPNGSLSPARTYTLQMKWPLLDVQA
 GSLQSRQTLKDARSPSPAHIVSNKVPVQHPHHVHPLTPLITYSNEHFTPGNPPPHLPADVDPKTGIPRP
 PHPPDISPYYPPLSPGTVGQIPHLGWLVPQQGQPVYPIITGGFRHPYPTALTVNASMSRFPHPMVPPHHT
 LHTTGIPHPAIVTPTVKQESSQSDVGLHSSKHQDSKKEEKKKPHIKKPLNAFMLYMKEMRAKVVAECT
 LKESAAINQILGRRWHALSREEQAKYYELARKERQLHMQLYPGWSARDNYGKKKKRKRDKQPGETNEHSE
 CFLNPCLSLPPIIDLAPKKCRARFGLDQNNWCGPCSL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

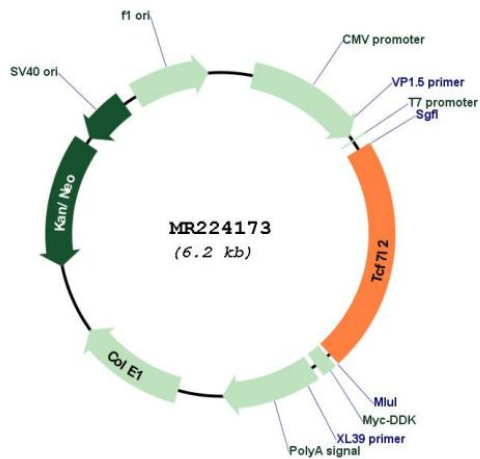
Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



Plasmid Map:



ACCN: NM_001142918
ORF Size: 1377 bp

OTI Disclaimer:	<p>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.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
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_001142918.2
RefSeq Size:	4163 bp
RefSeq ORF:	1380 bp
Locus ID:	21416
UniProt ID:	Q924A0
Cytogenetics:	19 51.59 cM
MW:	51.7 kDa
Gene Summary:	<p>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]</p>