

Product datasheet for **MG207325**

Tcf7l2 (NM_009333) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tcf7l2 (NM_009333) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tcf7l2
Synonyms:	Tcf-4; Tcf4; TCF4B; TCF4E
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207325 representing NM_009333
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCGACGTGAACGGCGGTGGAGGAGATGACCTAGGCGCTAACGACGAGCTGATCTCCTTCAAAGACG
 AAGGCGAGCAGGAGGAGAAGAACTCGGAAAACCTCGGCGGAAAGGATTTAGCCGATGTCAAGTCCTC
 GCTGGTCAATGAATCAGAGACGAATCAAAAACAGCTCCTCCGATTCGAGGCGGAAAGACGGCCTCCGCC
 CGCTCCGAAAGTTTCCGAGATAAATCCCGGAAAGTTTGAAGAAGCGGCCAAGAGGCAAGATGGAGGGC
 TCTTTAAGGGGCCACCGTATCCCGGCTACCCCTTCATCATGATCCCCGACCTGACGAGCCCTACCTCCC
 CAACGGATCGCTCTCGCCACCGCCGAACTATCTTCAGATGAAATGGCCACTGCTTGATGTCCAAGCA
 GGAAGCCTCCAGAGCAGACAAACCCTCAAGGATGCTCGTTCGCCGTCGCCAGCACACATCGTTTCGAACA
 AAGTACCGGTGGTGAACACCCCACTGTCCACCCACTCACGCCTCTCATCACGTACAGCAATGAACA
 CTTACCCCGGAAATCCACCTCCGCACTTACCAGCTGACGTAGACCCCAAAACAGGAATCCAAGGCCCT
 CCGCACCTCCAGATATCTCTCATATTACCCGCTGTCGCCCGCACCGTAGGACAAATCCCCATCCGC
 TAGGATGGTTAGTACCACAGCAAGGTCAGCCTGTGTACCCAATCACGACAGGAGGATTCAGACACCCCTA
 CCCCACAGCGCTGACAGTCAACGCATCTATGTCTAGGTTCCCTCCCCATATGGTCCCTCCCCATCACT
 CTGCACACGACCGGCATCCCTCACCCGGCCATCGTCACACCGACAGTCAAGCAGGAATCCTCCAGAGTG
 ACGTCGGCTCACTCCACAGCTCAAAGCATCAGGACTCCAAAAGGAAGAAGAAGAAGAAGCCCAAT
 AAAGAAGCCCTTAATGCATTATGTTGTATATGAAAGAGATGAGAGCGAAGGTGGTGGCCGAATGCACA
 TTGAAAGAGAGTGCAGCCATCAACCAGATTCTCGGGCGCAGGTGGCACGCCCTGTCCAGGGAAGAACAGG
 CAAAATACTACGAGCTGGCCCGAAGGAACGACAGCTTCACATGCAGTGTACCTGGCTGGTCTGCACG
 GGATAACTATGGGAAGAAGAAGAAGAGAAAAAGAGACAAGCAGCCGGGGAAACCAACGAACACAGCGAA
 TGTTCCTAAATCCTTGCTTTCTGCTTCTCCGATCACAGGAGAAAAAAGTGCCTTCGCTACATACA
 AAGTGAAGGCAGCTGCCTCAGCCACCCTCTTCAGATGGAAGCTTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207325 representing NM_009333
 Red=Cloning site Green=Tags(s)

MPQLNGGGDDLGANDELSFKDEGEQEEKNSSENSAERDLADVKSLLVNESETNQSSSDSEAERRPPP
 RSESFDRKSRESLEEAARKRDGGLFKGPPYPGYPFIMIPDLTSPYLPNGSLSPARTYLMKWPLLDVQA
 GSLQSRQTLKDARSPSPAHIVSNKVPVVQHPHHVHPLTPLITYSNEHFTPGNPPPHLPADVDPKTGIPRP
 PHPPDISPYYPPLSPGTVGQIPHPLGWLVPQQGPVYPIITGGFRHPYPTALTVNASMSRFPVPPHMHHT
 LHHTTGIPHPAIVTPTVKQESSQSDVGSLSKHKQDSKKEEEKKPHIKKPLNAFMLYMKEMRAKVAECT
 LKESAAINQILGRRWHALSREEQAKYYELARKERQLHMQLYPGWSARDNYGKKKKRKRDKQPGETNEHSE
 CFLNPCLSLPITGEKKSATYKVKAAASAHPLQMEAY

TRTRPLE - GFP Tag - V

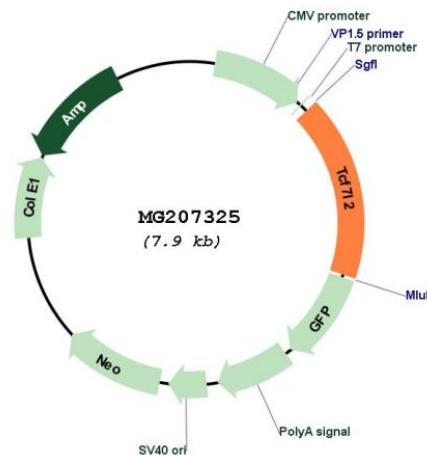
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_009333

ORF Size: 1377 bp

OTI Disclaimer: 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:	<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_009333.4
RefSeq Size:	3230 bp
RefSeq ORF:	1380 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]