

Product datasheet for MC209499

Tcf7l2 (NM_001142924) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tcf7l2 (NM_001142924) 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: >MC209499 representing NM_001142924
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTGCAACAAAGTACCGGTGGTGAACACCCCCACCATGTCCACCCACTCAGCCTCTCATCACGTACA
 GCAATGAACACTTCACCCCGGAAATCCACCTCCGCACTTACCAGCTGACGTAGACCCCAAACAGGAAT
 CCCAAGGCCTCCGCACCCTCCAGATATCTCTCCATATTACCCGCTGTCGCCCGGCACCGTAGGACAAATC
 CCCCATCCGCTAGGATGGTTAGTACCACAGCAAGGTCAGCCTGTGTACCCAATCACGACAGGAGGATTCA
 GACACCCCTACCCACAGCGCTGACAGTCAACGCATCTATGTCTAGGTTCCCTCCCATATGGTCCCTCC
 CCATCACACTCTGCACACGACCGGCATCCCTCACCCGGCCATCGTCACACCGACAGTCAAGCAGGAATCC
 TCCCAGAGTGACGTCGGCTCACTCCACAGCTCAAAGCATCAGGACTCCAAAAAGGAAGAAGAGAAGAAGA
 AGCCCCACATAAAGAAGCCCTTAATGCATTATGTGTATATGAAAGAGATGAGAGCGAAGGTGGTGGC
 CGAATGCACATTGAAAGAGAGTGCAGCCATCAACCAGATTCTCGGGCGCAGGTGGCACGCCCTGTCCAGG
 GAAGAACAGGCAAAATACTACGAGCTGGCCGGAAGGAACGACAGCTTCACATGCAGTGTACCCCTGGCT
 GGTCTGCACGGGATAACTATGGGAAGAAGAAGAAGAGAAAAAGAGACAAGCAGCCGGGGAAACCAACGA
 ACACAGCGAATGTTTCTAAATCCTTGCCTTTCGCTTCCCTCCGATCACAGACCTGAGCGCTCCTAAGAAA
 TGCCGAGCGCGCTTTGGCCTTGATCAACAGAATAACTGGTGCGGCCCTGCAGTCTT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001142924
Insert Size: 900 bp



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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_001142924.1</u> , <u>NP_001136396.1</u>
RefSeq Size:	3465 bp
RefSeq ORF:	900 bp
Locus ID:	21416
UniProt ID:	<u>Q924A0</u>
Cytogenetics:	19 51.59 cM
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> <p>Transcript Variant: This variant (8) uses an alternate 5' UTR and 5' coding region, compared to variant 1. The resulting isoform (8) has a substantially shorter and distinct N-terminus, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>