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Product datasheet for MC215807

Tcf7l2 (NM_001142919) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tcf7l2 (NM_001142919) Mouse Untagged Clone
Tag:	Tag Free
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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Fully Sequenced ORF:

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>MC215807 representing NM_001142919
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCGCAGCTGAACGGCGGTGGAGGAGATGACCTAGGCGCTAACGACGAGCTGATCTCCTTCAAAGACG
AAGGCGAGCAGGAGGAGAAGAACTCGGAAAACTCCTCGGCGGAAAGGGATTTAGCCGATGTCAAGTCCTC
GCTGGTCAATGAATCAGAGACGAATCAAAACAGCTCCTCCGATTCCGAGGCGGAAAGACGGCCTCCGCCT
CGCTCCGAAAGTTTCCGAGATAAATCCCGGGAAAGTTTGGAAGAAGCGGCCAAGAGGCAAGATGGAGGGC
TCTTTAAGGGGCCACCGTATCCCGGCTACCCCTTCATCATGATCCCCGACCTGACGAGCCCCTACCTCCC
CAACGGATCGCTCTCGCCCACCGCCCGAACCTATCTTCAGATGAAATGGCCACTGCTTGATGTCCAAGCA
GGAAGCCTCCAGAGCAGACAAACCCTCAAGGATGCTCGTTCGCCGTCGCCAGCACACATCGTTTCGAACA
AAGTACCGGTGGTGCAACACCCCCACCATGTCCACCCACTCACGCCTCTCATCACGTACAGCAATGAACA
CTTCACCCCGGGAAATCCACCTCCGCACTTACCAGCTGACGTAGACCCCAAAACAGGAATCCCAAGGCCT
CCGCACCCTCCAGATATCTCTCCATATTACCCGCTGTCGCCCGGCACCGTAGGACAAATCCCCCATCCGC
TAGGATGGTTAGTACCACAGCAAGGTCAGCCTGTGTACCCAATCACGACAGGAGGATTCAGACACCCCTA
CCCCACAGCGCTGACAGTCAACGCATCTATGTCTAGGTTCCCTCCCCATATGGTCCCTCCCCATCACACT
CTGCACACGACCGGCATCCCTCACCCGGCCATCGTCACACCGACAGTCAAGCAGGAATCCTCCCAGAGTG
ACGTCGGCTCACTCCACAGCTCAAAGCATCAGGACTCCAAAAAGGAAGAAGAGAAGAAGAAGCCCCACAT
AAAGAAGCCCCTTAATGCATTCATGTTGTATATGAAAGAGATGAGAGCGAAGGTGGTGGCCGAATGCACA
TTGAAAGAGAGTGCAGCCATCAACCAGATTCTCGGGCGCAGGTGGCACGCCCTGTCCAGGGAAGAACAGG
CAAAATACTACGAGCTGGCCCGGAAGGAACGACAGCTTCACATGCAGCTGTACCCTGGCTGGTCTGCACG
GGATAACTATGGGAAGAAGAAGAAGAGAAAAAGAGACAAGCAGCCGGGGGAAACCAACGACCTGAGCGCT
CCTAAGAAATGCCGAGCGCGCTTTGGCCTTGATCAACAGAATAACTGGTGCGGCCCCTGCAGTCTTTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
```

Restriction Sites: SgfI-MluI

ACCN: NM_001142919

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:
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_001142919.1, NP_001136391.1

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RefSeq Size:	4112 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]

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