

Product datasheet for **MC220073**

Tcf3 (NM_001164150) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tcf3 (NM_001164150) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tcf3
Synonyms:	A1; AA408400; ALF2; AW209082; bHLHb21; E2A; E12; E12/E47; E47; KA1; ME2; Pan1; Pan2; TCF-3; Tcfe2a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC220073 representing NM_001164150
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGGATCGCC

ATGATGAACCACTCTCAGAGAATGGCACCCGTGGGCTCTGACAAGAACTGAGTGACCTCCTGGACTTCA
 GCATGATGTTCCCGCTACCTGTGGCCAATGGGAAGAGCCGGCCCGCTCCCTCGGGGAACCCAGTTTGC
 AGGCTCAGGACTGGAGGACCGACCCAGCTCAGGCTCCTGGGGCAGCAGTGACCAGAACAGTTCTTCTTT
 GACCTAGCCGGACATACAGCGAAGGTGCCACTTCAGTGACTCCACAGCAGCCTGCCGCTTCCACGT
 TCCTAGGAGCTGGGCTTGGAGGCAAGGGCAGTGAGCGAATGCCTATGCCACCTTTGGGAGAGACCCAG
 TGTTGGCACCTTGAGTCAGGCTGGCTTCTGCCAGGTGAGCTGAGCCTCAGCAGTCCCGGCCACTGTCC
 CCATCGGGCATCAAGAGCAGTCCAGTATTACCCCTCATTCCCAGCAACCCTCGTCGGAGAGCTGCAG
 ATGGTGGCTTGGCAGATACTCAGCCGAAGAAGTCCGGAAGTTCGGCTGGTCTCCCTTCTCGGTGTA
 TCCGCCAGCTCAGGTGACAGCTACAGCAGGGATGCTGCAGCCTACCCCTCCGCCAAGACCCCCAGCAGC
 GCTTACCCCTCCCTTCTACGTGGCAGATGGCAGCCTGCACCCATCAGCTGAGCTCTGGAGTACGCCTA
 GCCAGGTGGGCTTTGGGCCATGCTAGGTGACGGCTTCCCCTCTGCCCTTGACCCGGCAGCAGCTC
 CGTGGGCACTGGTACCTTTGGGGCCCTCCAGCAGCAGGATCGCATGGGCTACCAGCTGCATGGATCTGAG
 GTTAATGGCTCGCTCCAGCTGTATCCAGCTTTTCGGCTGCCCTGGCACTTACAGTGGGACTTCCGGCC
 ACACGCCCCCTGTGAGTGGGGCCGAGCTGAAAGCCTCTAGGCACCCGAGGGACTACAGCCAGCAGCTC
 AGGGATGCCCTTGGGAAGGCACTGGCTCGATCTACTCCCGGATCACTCCAGCAATAATTTCTCACCT
 AGCCCCCAACGCTGTGGTTTACCCAGGGCTGCCAGGACATCACAGTGGCCCCGGCAGGAGCGC
 CCAGTGCCTTATCCCCAACTACGATGCAGGTCTCCATGGCCTGCAGAGCAAGATGGAGGACCGCTTGA
 CGAGGCCATCCATGTCTTGCAGGACCGCTGTTGGCACCGCTAGCGATCTCCATGGGCTTTTGCCTGGC
 CATGGCGCACTGACCACGAGCTTACCAGCCCATGCTACTGGCGGGGGCATGCCGGCTGGTCGGGG
 GAAGCCATCCTGAGGAGGGCTCACAAGTGGGGCAGTCTTTTGCATAACCATGCCAGCCTCCCCAGCCA
 GCCAGTTCCTCCCTGACCTCTCACAGAGACCTCCCGACTCCTATAGTGGACTCGGGAGGGCAGGCACA
 ACAGCGGGTCCAGCGAGATCAAGCGGGAGGAGAAAGAGGATGAGGAAATCGCATCAGTAGCCGACGCCG
 AAGAGGACAAGAAGGACCTGAAGTCCCACGCACGCGCACCAGCAGTACAGATGAGGTGCTGTCCCTGGA
 GGAGAAGGACCTGAGGGACCGGGAGAGGCGTATGGCCAATAACGCTCGGGAGCGGGTGCCTGCGGGAC
 ATTAACGAGGCCCTCCGGGAGCTGGGCCGATGTGCCAGCTGCACCTCAAGTCGGATAAAGCGCAGACCA
 AGCTGCTCATCTGCAGCAGGCGGTGCAGGTATCCTGGGCTGGAGCAGCAGGTGCGAGAACGCAACCT
 GAACCCCAAAGCAGCCTGCTTGAAGCGGAGGGAGGAGGAGAAGGTGTCTGGCGTGGTCCGGGACCCACAG
 CTGGCCCTGTAGCCGCCACCCGGGCTGGGTGAGGCCACAACCCAGCCGGGCACCTGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001164150

Insert Size: 1953 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_001164150.1](#), [NP_001157622.1](#)

RefSeq Size: 3311 bp

RefSeq ORF: 1953 bp

Locus ID: 21423

Cytogenetics: 10 39.72 cM

Gene Summary: Transcriptional regulator. Involved in the initiation of neuronal differentiation. Heterodimers between TCF3 and tissue-specific basic helix-loop-helix (bHLH) proteins play major roles in determining tissue-specific cell fate during embryogenesis, like muscle or early B-cell differentiation. Dimers bind DNA on E-box motifs: 5'-CANNTG-3'. Binds to the kappa-E2 site in the kappa immunoglobulin gene enhancer. Binds to IEB1 and IEB2, which are short DNA sequences in the insulin gene transcription control region.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (4) has an alternate penultimate coding exon, compared to variant 1. The resulting isoform (4) has a distinct segment in the C-terminal region, compared to isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.