

## Product datasheet for **MC220078**

### **Tcf3 (NM\_001164148) Mouse Untagged Clone**

#### **Product data:**

<b>Product Type:</b>	Expression Plasmids
<b>Product Name:</b>	Tcf3 (NM_001164148) Mouse Untagged Clone
<b>Tag:</b>	Tag Free
<b>Symbol:</b>	Tcf3
<b>Synonyms:</b>	A1; AA408400; ALF2; AW209082; bHLHb21; E2A; E12; E12/E47; E47; KA1; ME2; Pan1; Pan2; TCF-3; Tcfe2a
<b>Vector:</b>	pCMV6-Entry (PS100001)
<b>E. coli Selection:</b>	Kanamycin (25 ug/mL)
<b>Cell Selection:</b>	Neomycin



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**Fully Sequenced ORF:** >MC220078 representing NM\_001164148  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGATGAACCACTCTCAGAGAATGGCACCCGTGGGCTCTGACAAGGAAGTGAAGTACCTCCTGGACTTCA  
 GCATGATGTTCCCGCTACCTGTGGCCAATGGGAAGAGCCGGCCCGCTCCCTCGGGGAACCCAGTTTGC  
 AGGCTCAGGACTGGAGGACCGACCCAGCTCAGGCTCCTGGGCGAGCAGTGACCAGAACAGTTCTTCTTT  
 GACCTAGCCGGACATACAGCGAAGGTGCCACTTCAGTGACTCCACAGCAGCCTGCCGCTTCCACGT  
 TCCTAGGAGCTGGGCTTGGAGGCAAGGGCAGTGAGCGAATGCCTATGCCACCTTTGGGAGAGACCCAG  
 TGTTGGCACCTTGAGTCAGGCTGGCTTCTGCCAGGTGAGCTGAGCCTCAGCAGTCCCGGCCACTGTCC  
 CCATCGGGCATCAAGAGCAGTCCAGTATTACCCCTCATTCCCAGCAACCCTCGTCGGAGAGCTGCAG  
 ATGGTGGCTGGCAGATACTCAGCCGAAGAAGTCCGGAAGTTCGGCTGGTCTCCCTTCTCGGTGTA  
 TCCGCCAGCTCAGGTGACAGCTACAGCAGGGATGCTGCAGCCTACCCCTCCGCCAAGACCCCCAGCAGC  
 GCTTACCCCTCCCTTCTACGTGGCAGATGGCAGCCTGCACCCATCAGCTGAGCTCTGGAGTACGCCTA  
 GCCAGGTGGGCTTTGGGCCATGCTAGGTGACGGCTTCCCCTCTGCCCTTGACCCGGGCGAGCAGCTC  
 CGTGGGCGAGTGGTACCTTTGGGGCCCTCCAGCAGCAGGATCGCATGGGCTACCAGCTGCATGGATCTGAG  
 GTTAATGGCTCGCTCCAGCTGTATCCAGCTTTTCGGCTGCCCTGGCACTTACAGTGGGACTTCCGGCC  
 ACACGCCCCCTGTGAGTGGGGCCGAGCTGAAAGCCTCCTAGGCACCCGAGGGACTACAGCCAGCAGCTC  
 AGGGGATGCCCTTGGGAAGGCACTGGCTCGATCTACTCCCGGATCACTCCAGCAATAATTTCTCACCT  
 AGCCCCCAACGCCTGTGGTTTACCCAGGGCTGCCAGGACATCACAGTGGCCCCGGGCGAGGAGCGC  
 CCAGTGCCTTATCCCCAACTACGATGCAGGTCTCCATGGCCTGAGCAAGATGGAGGACCGCTTGGACGA  
 GGCCATCCATGTCTGCGAAGCCACGCTGTTGGCACCGCTAGCGATCTCCATGGGCTTTTGCCTGGCCAT  
 GGCGCACTGACCACGAGCTTACCCGCCCCATGTCACTGGGCGGGCGGCATGCCGGCTGGTCCGGGGAA  
 GCCATCTGAGGAGGGCCTCACAAGTGGGGCCAGTCTTTTGCATAACCATGCCAGCCTCCCAGCCAGCC  
 CAGTTCCTCCTGACCTCTCACAGAGACTCCCGACTCTATAGTGGACTCGGGAGGGCAGGCACAACA  
 GCGGGTGCAGCGAGATCAAGCGGGAGGAGAAAGAGGATGAGGAAATCGCATCAGTAGCCAGCAGCCGAA  
 AGGACAAGAAGGACCTGAAGTCCCACGCACGCGCACCAGCCAGACGAGGACGAGGACGACCTTCTCCC  
 CCCAGAGCAGAAGGCGGAGCGGGAGAAGGAGCGCCGGTGGCCAATAATGCCGAGAGCGCTGCGGGTC  
 CGCGACATCAATGAGGCCTTAAGGAGCTCGGCCGATGTGCCAGCTGCACCTCAGCAGCGAGAAGCCGC  
 AGACCAAAGTGCATCCTGCACCAGGCGTGGCCGTCATCCTCAGCCTGGAGCAGCAGGTGCGGAGAACG  
 CAACCTGAACCCAAAGCAGCCTGCTTGAAGCGGAGGGAGGAGGAGAAGGTGTCTGGCGTGGTCCGGGAC  
 CCACAGCTGGCCCTGTCAGCCGCCACCCGGGCTGGGTGAGGCCACAACCCAGCCGGGACCTGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001164148

**Insert Size:** 1959 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\\_001164148.1](#), [NP\\_001157620.1](#)

**RefSeq Size:** 3317 bp

**RefSeq ORF:** 1959 bp

**Locus ID:** 21423

**UniProt ID:** [P15806](#)

**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 (2) has an alternate splice site in the coding region, compared to variant 1. The resulting isoform (2) lacks an internal aa, 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.