

## Product datasheet for **MR225783**

### **Tcf3 (NM\_001164150) Mouse Tagged ORF Clone**

#### **Product data:**

<b>Product Type:</b>	Expression Plasmids
<b>Product Name:</b>	Tcf3 (NM_001164150) Mouse Tagged ORF Clone
<b>Tag:</b>	Myc-DDK
<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



[View online »](#)

ORF Nucleotide  
Sequence:

>MR225783 representing NM\_001164150  
Red=Cloning site Blue=ORF Green=Tags(s)

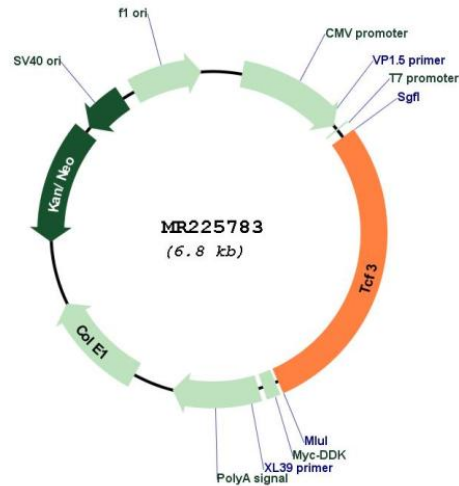
TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGATGAACCACTCTCAGAGAATGGCACCCGTGGGCTCTGACAAGGAAGTGAAGTACCTCCTGGACTTCA  
GCATGATGTTCCCGCTACCTGTGGCCAATGGGAAGAGCCGGCCCGCTCCCTCGGGGAACCCAGTTTGC  
AGGCTCAGGACTGGAGGACCGACCCAGCTCAGGCTCCTGGGGCAGCAGTGACCAGAACAGTTCTTCTTT  
GACCTAGCCGGACATACAGCGAAGGTGCCACTTCAGTGACTCCACAGCAGCCTGCCGCTTCCACGT  
TCCTAGGAGCTGGGCTTGGAGGCAAGGGCAGTGAGCGAATGCCTATGCCACCTTTGGGAGAGACCCAG  
TGTTGGCACCTTGAGTCAGGCTGGCTTCTGCCAGGTGAGCTGAGCCTCAGCAGTCCCGGCCACTGTCC  
CCATCGGGCATCAAGAGCAGTCCAGTATTACCCCTCATTCCCAGCAACCCTCGTCGGAGAGCTGCAG  
ATGGTGGCTGGATACTCAGCCGAAGAAGTCCGGAAGTTCCGCCTGGTCTCCCTTCTCGGTGTATCC  
GCCAGCTCAGGTGACAGCTACAGCAGGATGCTGCAGCCTACCCCTCCGCAAGACCCAGCAGCGCT  
TACCCCTCCCTTCTAGTGGCAGATGGCAGCCTGCACCATCAGCTGAGCTCTGGAGTACGCCTAGCC  
AGGTGGGCTTTGGGCCATGCTAGGTGACGGCTTCCCTCTGCCCCTGCACCGGCAGCAGCTCCGT  
GGGAGTGGTACCTTTGGGGCTCCAGCAGCAGGATCGCATGGGCTACCAGCTGCATGGATCTGAGGTT  
AATGGCTCGTCCAGCTGTATCCAGCTTTTCGGCTGCCCTGGCACTTACAGTGGGACTTCCGGCCACA  
CGCCCCGTGTAGTGGGGCCGAGCTGAAAGCCTCCTAGGCACCCGAGGGACTACAGCCAGCAGCTCAGG  
GGATGCCCTTGGGAAGGCACTGGCTCGATCTACTCCCGGATCACTCCAGCAATAATTTCTCACCTAGC  
CCCTCAACGCCTGTGGTTCACCCAGGGCTGCCAGGGACATCACAGTGGCCCCGGGCAGGAGCGCCCA  
GTGCCTTATCCCCAACTACGATGCAGTCTCCATGGCTGAGCAAGATGGAGGACCGCTTGGACGAGGC  
CATCCATGTCCTGCGAAGCCACGCTGTTGGCACCCTAGCGATCTCCATGGGCTTTTGCCTGGCCATGGC  
GCACTGACCACGAGCTTACCGGCCCATGTCAGTGGGCGGGCGCATGCCGCTGGTCCGGGGAAAGCC  
ATCCTGAGGAGGGCTCACAAGTGGGGCAGTCTTTGCATAACCATGCCAGCCTCCCAGCCAGCCAG  
TTCCCTCCCTGACCTCTCACAGAGACCTCCGACTCCTATAGTGGACTCGGGAGGGCAGGCACAACAGCG  
GGTGCCAGCGAGATCAAGCGGGAGGAGAAAGAGGATGAGGAAATCGCATCAGTAGCCGACGCCGAAGAGG  
ACAAGAAGGACCTGAAGTCCCACGCACGCGCACCAGCAGTACAGATGAGGTGCTGTCCCTGGAGGAGAA  
GGACCTGAGGGACCGGGAGAGGCGTATGGCCAATAACGCTCGGGAGCGGGTGCCTGCGGGACATTAAC  
GAGGCCTTCCGGAGCTGGGCCCATGTGCCAGCTGCACCTCAAGTCGGATAAGGCGCAGACCAAGCTGC  
TCATCCTGCAGCAGGCGGTGCAGGTATCCTGGGCTGGAGCAGCAGGTGCGAGAACGCAACCTGAACCC  
CAAAGCAGCCTGCTTGAAGCGGAGGGAGGAGGAGAAGGTGCTGGCGTGGTCCGGGACCCACAGCTGCC  
CTGTACGCGCCACCCGGGCTGGGTGAGGCCACAACCCAGCCGGGCACCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



## Plasmid Map:



ACCN: NM\_001164150

ORF Size: 1944 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:

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

MW: 68.1 kDa

**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]