

Product datasheet for **MR225785**

Tcf3 (NM_001164152) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tcf3 (NM_001164152) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tcf3
Synonyms:	A1; AA408400; ALF2; AW209082; bHLHb21; E2A; E12; E12/E47; E47; KA1; ME2; Pan1; Pan2; TCF-3; Tcfe2a
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide
Sequence:

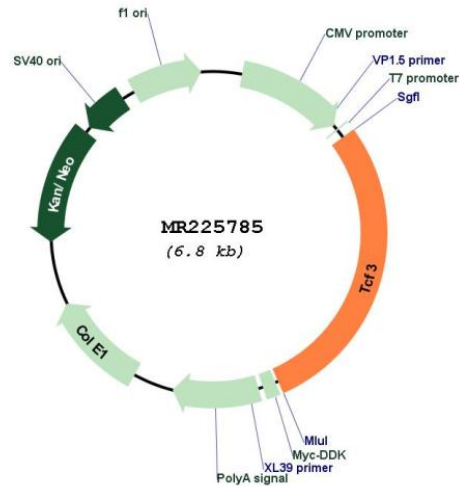
>MR225785 representing NM_001164152
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATGAACCACTCTCAGAGAATGGCACCCGTGGGCTCTGACAAGGAAGTGAAGTACCTCCTGGACTTCA
GCATGATGTTCCCGCTACCTGTGGCCAATGGGAAGAGCCGGCCCGCTCCCTCGGGGAACCCAGTTTGC
AGGCTCAGGACTGGAGGACCGACCCAGCTCAGGCTCCTGGGGCAGCAGTACCAGAACAGTTCTTCTTT
GACCTAGCCGGACATACAGCGAAGGTGCCACTTCAGTACTCCACAGCAGCCTGCCGCTTCCACGT
TCCTAGGAGTGGGCTTGGAGGCAAGGGCAGTGAAGGAAATGCCTATGCCACCTTTGGGAGAGACCCAG
TGTTGGCACCTTGAGTCAAGGCTGGCTTCTGCCAGGTGAGCTGAGCCTCAGCAGTCCCGGCCACTGTCC
CCATCGGGCATCAAGAGCAGTCCAGTATTACCCCTCATTCCCAGCAACCCTCGTCGGAGAGCTGCAG
ATGGTGGCTGGATACTCAGCCGAAGAAGTCCGGAAGTTCCGCTGGTCTCCCTTCTCGGTGTATCC
GCCAGCTCAGGTGACAGCTACAGCAGGATGCTGCAGCCTACCCCTCCGCAAGACCCAGCAGCGCT
TACCCCTCCCTTCTAGTGGCAGATGGCAGCCTGCACCCATCAGCTGAGCTCTGGAGTACGCCTAGCC
AGGTGGGCTTTGGGCCATGCTAGGTGACGGCTTTCCTCCTGCCCCCTGCACCGGCAGCAGCTCCGT
GGGAGTGGTACCTTTGGGGCTCCAGCAGCAGGATCGCATGGGCTACCAGCTGCATGGATCTGAGGTT
AATGGCTCGTCCAGCTGTATCCAGCTTTTCGGCTGCCCTGGCACTTACAGTGGGACTTCCGGCCACA
CGCCCCGTGTAGTGGGGCCGAGCTGAAAGCCTCCTAGGCACCCGAGGGACTACAGCCAGCAGCTCAGG
GGATGCCCTTGGGAAGGCACTGGCTCGATCTACTCCCGGATCACTCCAGCAATAATTTCTCACCTAGC
CCCTCAACGCCTGTGGGTTACCCAGGGCTGCCAGGGACATCACAGTGGCCCCGGCAGGAGCGCCCA
GTGCCTTATCCCCAACTACGATGCAGTCTCCATGGCTGAGCAAGATGGAGGACCGCTTGGACGAGGC
CATCCATGTCCTGCGAAGCCACGCTGTTGGCACCCTAGCGATCTCCATGGGCTTTTGCCTGGCCATGGC
GCACTGACCACGAGCTTACCGGCCCATGTCAGTGGGCGGGCGCATGCCGGCTGGTCCGGGGAAAGCC
ATCCTGAGGAGGGCTCACAAGTGGGGCAGTCTTTGCATAACCATGCCAGCCTCCCAGCCAGCCAG
TTCCCTCCCTGACCTCTCACAGAGACCTCCCGACTCCTATAGTGGACTCGGGAGGGCAGGCACAACAGC
GGTCCAGCGAGATCAAGCGGGAGGAGAAAGAGGATGAGGAAATCGCATCAGTAGCCGACGCCGAAGAGG
ACAAGAAGGACCTGAAGGTCCACGCACGCGCACCAGCAGTACAGATGAGGTGCTGTCCCTGGAGGAGAA
GGACCTGAGGGACCGGGAGAGGCGTATGGCCAATAACGCTCGGGAGCGGGTGCCTGCGGGACATTAAC
GAGGCCTTCCGGAGCTGGGCCCATGTGCCAGCTGCACCTCAAGTCGGATAAGGCGCAGACCAAGCTGC
TCATCCTGCAGCAGGCGGTGCAGGTATCCTGGGCTGGAGCAGCAGGTGCGAGAACGCAACCTGAACCC
CAAAGCAGCCTGCTTGAAGCGGAGGGAGGAGGAGAAGGTGTCTGGCGTGGTCCGGGACCCACAGTGCC
CTGTACGCGCCACCCGGGCTGGGTGAGGCCACAACCCAGCCGGGCACCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Plasmid Map:



ACCN: NM_001164152

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_001164152.1](#), [NP_001157624.1](#)

RefSeq Size: 3308 bp

RefSeq ORF: 1950 bp

Locus ID: 21423

Cytogenetics: 10 39.72 cM

MW: 67.9 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]