

Product datasheet for **MR209745**

Tcf3 (NM_011548) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tcf3 (NM_011548) 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
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>MR209745 representing NM_011548
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGATGAACCACTCTCAGAGAATGGCACCCGTGGGCTCTGACAAGAACTGAGTGACCTCCTGGACTTCA
GCATGATGTTCCCGCTACCTGTGGCCAATGGGAAGAGCCGGCCCGCTCCCTCGGGGAACCCAGTTTGC
AGGCTCAGGACTGGAGGACCGACCCAGCTCAGGCTCCTGGGGCAGCAGTGACCAGAACAGTTCTTCTTT
GACCTAGCCGGACATACAGCGAAGGTGCCACTTCAGTGACTCCACAGCAGCCTGCCGCCTTCCACGT
TCCTAGGAGCTGGGCTTGGAGGCAAGGGCAGTGAGCGAATGCCTATGCCACCTTTGGGAGAGACCCAG
TGTTGGCACCTTGAGTCAGGCTGGCTTCTGCCAGGTGAGCTGAGCCTCAGCAGTCCCGGCCACTGTCC
CCATCGGGCATCAAGAGCAGCTCCAGTATTACCCCTCATTCCCAGCAACCCTCGTCGGAGAGCTGCAG
ATGGTGGCTGGATACTCAGCCGAAGAAGTCCGGAAGTTCCGCCTGGTCTCCCTTCTCGGTGTATCC
GCCAGCTCAGGTGACAGCTACAGCAGGGATGCTGCAGCCTACCCCTCCGCCAAGACCCCAAGCAGCGCT
TACCCCTCCCTTCTAGTGGCAGATGGCAGCCTGCACCATCAGCTGAGCTCTGGAGTACGCCTAGCC
AGGTGGGCTTTGGGCCATGCTAGGTGACGGCTTCCCTCTGCCCCTTGACCCGGGCAGCAGCTCCGT
GGGAGTGGTACCTTTGGGGCTCCAGCAGCAGGATCGCATGGGCTACCAGCTGCATGGATCTGAGGTT
AATGGCTCGTCCAGCTGTATCCAGCTTTTCGGCTGCCCTGGCACTTACAGTGGGACTTCCGGCCACA
CGCCCCGTGTGAGTGGGGCCGAGCTGAAAGCCTCCTAGGCACCCGAGGGACTACAGCCAGCAGCTCAGG
GGATGCCCTTGGGAAGGCACTGGCTCGATCTACTCCCGGATCACTCCAGCAATAATTTCTCACCTAGC
CCCTCAACGCCTGTGGTTCACCCAGGGCTGCCAGGGACATCACAGTGGCCCCGGGCAGGAGCGCCCA
GTGCCTTATCCCCAACTACGATGCAGGTCTCCATGGCTGAGCAAGATGGAGGACCGCTTGGACGAGGC
CATCCATGTCCTGCGAAGCCACGCTGTTGGCACCGCTAGCGATCTCCATGGGCTTTTGCCTGGCCATGGC
GCACTGACCACGAGCTTACCCGGCCCATGCTACTGGGCGGGCGCATGCCGGCTGGTCCGGGGAAAGCC
ATCCTGAGGAGGGCTCACAAGTGGGGCAGTCTTTGCATAACCATGCCAGCCTCCCAGCCAGCCAG
TTCCCTCCCTGACCTCTCACAGAGACCTCCCGACTCCTATAGTGGACTCGGGAGGGCAGGCACAACAGCG
GGTGCCAGCGAGATCAAGCGGGAGGAGAAAGAGGATGAGGAAATCGCATCAGTAGCCGACGCCGAAGAGG
ACAAGAAGGACCTGAAGGTCCACGCACGCGCACCAGCAGTACAGATGAGGTGCTGTCCCTGGAGGAGAA
GGACCTGAGGGACCGGGAGAGGCGTATGGCCAATAACGCTCGGGAGCGGGTGCCTGCGGGACATTAAC
GAGGCCTTCCGGGAGCTGGGCCGATGTGCCAGCTGCACCTCAAGTCGGATAAAGGCGCAGACCAAGCTGC
TCATCCTGCAGCAGGCGGTGCAGGTATCCTGGGCTGGAGCAGCAGGTGCGAGAACGCAACCTGAACCC
CAAAGCAGCCTGCTTGAAGCGGAGGGAGGAGGAGAAGGTGTCTGGCGTGGTCCGGGACCCACAGCTGCC
CTGTACGCGCCACCCGGGCTGGGTGAGGCCACAACCCAGCCGGGCACCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR209745 representing NM_011548
Red=Cloning site Green=Tags(s)

```
MMNQSQRMAPVGSDELSDLLDFSMFPLPVANGKSRPASLGGTQFAGSGLEDRPSSGSWGSSDQNSSSF
DPSRTYSEGAHFSDSHSSLPPSTFLGAGLGGKGSERNAYATFGRDTSVGTLSQAGFLPGELSLSSPGPLS
PSGIKSSSQYYPSFSPNRRRAADGGLDTPKKVRKVPPGLPSSVYPPSSGDSYSRDAAYPSAKTPSSA
YPSPFYVADGSLHPSAELWSTPSQVGFPMPLGDGSSPLPLAPGSSSVGSGTFGGLQQQDRMGYQLHGSEV
NGSLPAVSSFSAAPGTYSHTPPVSGAAESELLGTRGTTASSGDALGKALASIYSPDHSSNNFSPS
PSTPVGSPQGLPGTSQWPRAGAPSALSPNYDAGLHGLSKMEDRLDEAIHVLRSNAVGTASDLHGLLPGHG
ALTTSTGPMMLGRRHAGLVGGSHPEEGLTSGASLLHNHASLPSQPSSLPDLQRPPDSYSLGRAGTTA
GASEIKREEKEDEEIASVADAEDKDLKVPRTTSSTDEVLSLEEKDLRDRERRMANNRERVRVDIN
EAFRELGRMCQLHLKSDKAQTKLLILQQAVQVILGLEQQVREERLNPKAACLKRREEKVSQVGVDPQLP
LSAAHPGLGEAHPAGHL
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_011548

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_011548.3](#), [NP_035678.2](#)

RefSeq Size: 3305 bp

RefSeq ORF: 1947 bp

Locus ID: 21423

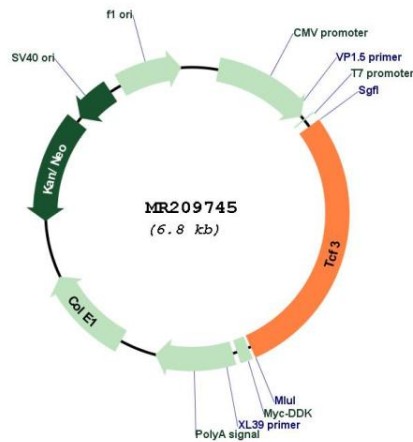
UniProt ID: [P15806](#)

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]

Product images:



Circular map for MR209745