

Product datasheet for **MG209745**

Tcf3 (NM_011548) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tcf3 (NM_011548) Mouse Tagged ORF Clone
Tag:	TurboGFP
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-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209745 representing NM_011548
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATGAACCACTCTCAGAGAATGGCACCCGTGGGCTCTGACAAGAACTGAGTGACCTCCTGGACTTCA
 GCATGATGTTCCCGCTACCTGTGGCCAATGGGAAGAGCCGGCCCGCTCCCTCGGGGAACCCAGTTTGC
 AGGCTCAGGACTGGAGGACCGACCCAGCTCAGGCTCCTGGGGCAGCAGTGACCAGAACAGTTCTTCTTT
 GACCTAGCCGGACATACAGCGAAGGTGCCACTTCAGTGACTCCACAGCAGCCTGCCGCTTCCACGT
 TCCTAGGAGCTGGGCTTGGAGGCAAGGGCAGTGAGCGAATGCCTATGCCACCTTTGGGAGAGACCCAG
 TGTTGGCACCTTGAGTCAGGCTGGCTTCTGCCAGGTGAGCTGAGCCTCAGCAGTCCCGGCCACTGTCC
 CCATCGGGCATCAAGAGCAGCTCCAGTATTACCCCTCATTCCCAGCAACCCTCGTCGGAGAGCTGCAG
 ATGGTGGCTGGATACTCAGCCGAAGAAGTCCGAAGGTTCCGCTGGTCTCCCTTCTCGGTGTATCC
 GCCCAGCTCAGGTGACAGCTACAGCAGGATGCTGCAGCCTACCCCTCCGCAAGACCCAGCAGCGCT
 TACCCCTCCCTTCTAGTGGCAGATGGCAGCCTGCACCATCAGCTGAGCTCTGGAGTACGCCTAGCC
 AGGTGGGCTTTGGGCCATGCTAGGTGACGGCTTCCCTCTGCCCCTGCACCGGCAGCAGCTCCGT
 GGGCAGTGGTACCTTTGGGGCCTCCAGCAGCAGGATCGCATGGGCTACCAGCTGCATGGATCTGAGGT
 AATGGCTCGTCCAGCTGTATCCAGCTTTTCGGCTGCCCTGGCACTTACAGTGGGACTTCCGGCCACA
 CGCCCCGTGTGAGTGGGGCCGAGCTGAAAGCCTCCTAGGCACCCGAGGGACTACAGCCAGCAGCTCAGG
 GGATGCCCTTGGGAAGGCACTGGCTCGATCTACTCCCGGATCACTCCAGCAATAATTTCTCACCTAGC
 CCCTCAACGCCTGTGGGTTACCCAGGGCTGCCAGGGACATCAGTGGCCCCGGGCAGGAGCGCCCA
 GTGCCCTATCCCCAACTACGATGCAGGTCTCCATGGCTGAGCAAGATGGAGGACCGCTTGGACGAGGC
 CATCCATGTCCTGCGAAGCCACGCTGTTGGCACCGCTAGCGATCTCCATGGGCTTTTGCCTGGCCATGGC
 GCACTGACCACGAGCTTACCCGGCCCATGCTACTGGGCGGGCGCATGCCGGCTGGTCCGGGGGAAGCC
 ATCCTGAGGAGGGCTCACAAGTGGGGCAGTCTTTTGCATAACCATGCCAGCCTCCCAGCCAGCCAG
 TTCCCTCCCTGACCTCTCACAGAGACCTCCCGACTCCTATAGTGGACTCGGGAGGGCAGGCACAACAGCG
 GGTGCCAGCGAGATCAAGCGGGAGGAGAAAGAGGATGAGGAAATCGCATCAGTAGCCGACCCGAAGAGG
 ACAAGAAGGACCTGAAGTCCCACGCACGCGCACCAGCAGTACAGATGAGGTGCTGTCCCTGGAGGAGAA
 GGACCTGAGGGACCGGGAGAGGCGTATGGCCAATAACGCTCGGGAGCGGGTGCCTGCGGGACATTAAC
 GAGGCTTCCGGGAGCTGGGCCCATGTGCCAGCTGCACCTCAAGTCGGATAAGGCGCAGACCAAGCTGC
 TCATCCTGCAGCAGGCGGTGCAGGTTCCTGGGCTGGAGCAGCAGGTGCGAGAACGCAACCTGAACCC
 CAAAGCAGCCTGCTTGAAGCGGAGGGAGGAGGAGAAGGTGCTGGCGTGGTCCGGGACCCACAGTCCCC
 CTGTACGCGCCACCCGGGCTGGGTGAGGCCACAACCCAGCCGGGCACCTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG209745 representing NM_011548
 Red=Cloning site Green=Tags(s)

MMNQSQRMAPVGSDELSDLLDFSMFPLPVANGKSRPASLGGTQFAGSGLEDRPSSGWSGSSDQNSSSF
 DPSRTYSEGAHFSHSSLPSTFLGAGLGGKGSERNAYATFGRDTSVGTLSQAGFLPGELSLSSPGPLS
 PSGIKSSQYYPSPNRRRAADGGLDTQPKVVRKVPPLPSSVYPPSSGDSYRDAAA YPSAKTPSSA
 YPSPFYVADGSLHPSAELWSTPSQVGFPM LGDSSPLPLAPGSSSVGSGTFGGLQQQDRMGYQLHGSEV
 NGS LPAVSSFSAPGTYSGTSGHTPPVSGAAAESLLGTRGTTASSSGDALGKALASIYSPDHSSNNFSPS
 PSTPVGSPQGLPGTSQWPRAGAPSALSPNYDAGLHGLSKMEDRLDEAIHVL RSHAVGTASDLHGLLPGHG
 ALTTSFTGPMSLGGRHAGLVGGSHPEEGLTSGASLLHNHASLPSQPSLPDL SQRPPDSYSLGRAGTTA
 GASEIKREEKEDEEIASVADAEDKDLKVPRTSSTDEVLSLEEKDLRDRERRMANNARERVRVDIN
 EAFRELGRMCQLHLKSDKAQTLLILQQAVQVILGLEQQVREERNLNPKAACLKRREEEKVSGVVGDPQLP
 LSAHPGLGEAHPAGHL

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



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

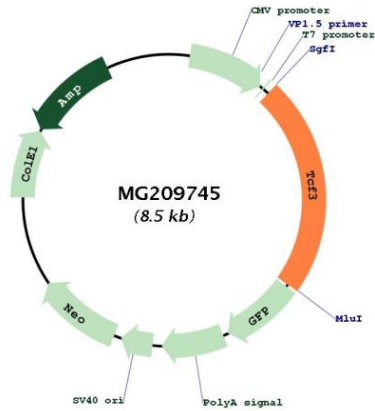
Locus ID: 21423

UniProt ID: [P15806](#)

Cytogenetics: 10 39.72 cM

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 MG209745