

Product datasheet for **MR208151**

Tcf4 (BC014293) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tcf4 (BC014293) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tcf4
Synonyms:	ME2, ITF-2, SEF-2, MITF-2A, MITF-2B, TFE, E2-2, E2.2, ITF2, SEF2, ASP-I2, ITF-2b, SEF2-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208151 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTACTGCGCATACACCATCCCGGCATGGGCGCAACTCTTTGATGTACTACTATAATGGGAAAGCGG
 TCTACGCTCCTTCAGCCAGCACTGCCACTACAACAGGGATTCCGCCAGGCTATCCTTCTCCAAGCCAGC
 AGCCAGCACTTTCCCTAGCTCCTTCTTCATGCAAGATGGCCATCACAGCAGCGACCCCTGGAGCTCTCC
 AGCGGGATGAATCAGCCCGGCTACGGAGGGATGCTGGGCAATTCTTCTCATATCCACAGTCCAGCAGCT
 ACTGTAGCTGCATCCACATGAACGTTTGGAGCTATCCATCCCCTCCTCGGCAGACATCAACTCCAGTCT
 TCCTCCGATGTCCAGTTCATCGTAGTGGCACAACCATTACAGCACCTCTTCTGCACACCCCTGCC
 AACGGAACAGACAGTATAATGGCAAACAGAGGAACTGGGCGAGCAGGCTCCAGACTGGAGACGCTC
 TGGGAAAGCCCTAGCTTCGATCTATTCTCCTGACCACACGAACAACAGCTTTTCTCCAATCCTTCAAC
 TCCTGTGGGCTCCCTCCTTCACTCTCAGCAGGCACAGCTGTTTGGTCTAGAAATGGAGGACAGGCTCG
 TCATCTCCAATTATGAAGGACCCTTGACTCACTGCAAAGCCGAATCGAAGACCCTTTGGAAAGACTGG
 ACGATGCGATTATGTTCTCCGGAACCACGCAAGTGGGCCCGTCCACAGCTGTGCCTGGTGGGCATGGGGA
 CATGCATGGGATCATGGGACCCTCCCAACCGAGCGATGGGTAGCCTGGGCTCAGGGTATGGAAGTGT
 CTTCTCTCAGCCAACAGACACTCGCTCATGTTGGGGCCACCCTGAAGATGGCGTGGCTCTGAGAGGCA
 GCCATTCTCTCCTGCCAAACCAGTTCGGTCCCAACTTCCGGTCCAGTCTGCAACTTCCCCTGACTT
 GAACCCACCCCAAGACCTTACAGAGGGATGCCACCAGGTCTCCAGGGCCAGAGCGTGTCTTCTGGTAGC
 TCTGAGATCAAATCCGACGACGAGGGCGATGAGAACCTGCAAGACACAAAATCTTCTGAGGACAAGAAAT
 TAGATGACGACAAGAAGGATATCAAATCAATTAAGTACTAGCAATAACGATGATGAGGACCTGACCCAGAGCA
 GAAGGCTGAGCGGAGAAAGGAACGAGGATGGCCAATAATGCCCGTGAGCGCCTGAGGGTCCGAGATATC
 AACGAGGCTTTCAAGGAGCTTGGCCGATGGTGCAGCTCCACCTGAAGAGCGACAAGCCCCAGACCAAGC
 TCCTGATTCTCCACCAGGCCGTGGCTGTATCCTCAGCCTGGAGCAGCAAGTTCGAGAAAGGAATCTGAA
 CCCGAAAGCTGCCTGTCTGAAAAGAAGGGAGGAAGAGAAGGTGTCTCAGAGCCTCCCCACTCTCCTTG
 GCTGGCCACACCCTGGGATGGGAGACGACGGAATCACATGGGACAGATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208151 protein sequence
 Red=Cloning site Green=Tags(s)

MYCAYTIPGMGGNSLMYYYNGKAVYAPSASTADYNRDSPGYPSSKPAASTFPSSFFMQDGHSSDPWSSS
 SGMNQPGYGGMLGNSSHIPQSSSYCSLHPHERLSYPHSSADINSLPMMSTFHRSGTNHYSTSSCTPPA
 NGTDSIMANRGTGAAGSSQTGDALGKALASIYSPDHTNNSFSSNPSTPVGSPPSLSAGTAVWSRNGGQAS
 SSPNYEGLHSLQSRIEDRLERLDDAIHVLNRHAVGPSTAVPGGHGDMHGIMGPSHNGAMGSLGSGYGT
 LLSANRHSLMVGAREGVALRGSHSLLPNQVPVQPLPVQSATSPDLNPPQDPYRGMPPGLQGQSVSSGS
 SEIKSDDEGDENLQDTKSSDKKDDDKDIKISITSNDDDELTPAQKEREKERRMANNARERLRVRDI
 NEAFKELGRMVQLHLKSDKPQTKLLILHQAVAVILSLEQQVRERLNPKAAALKRREEEKVSSEPPPLSL
 AGPHPGMGDAANHMGQM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: BC014293

ORF Size: 1521 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: [BC014293](#), [AAH14293](#)

RefSeq Size: 1765 bp

RefSeq ORF: 1523 bp

Locus ID: 21413

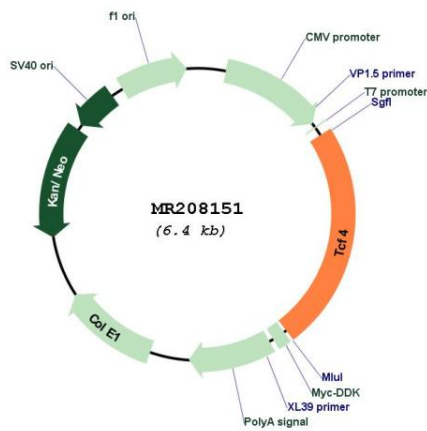
Cytogenetics: 18 E2

MW: 54.1 kDa

Gene Summary:

Transcription factor that binds to the immunoglobulin enhancer Mu-E5/KE5-motif. Involved in the initiation of neuronal differentiation. Activates transcription by binding to the E box (5'-CANNTG-3'). Isoform 2 inhibits MYOD1 activation of the cardiac alpha-actin promoter. Binds to the E-box present in the somatostatin receptor 2 initiator element (SSTR2-INR) to activate transcription. May have a regulatory function in developmental processes as well as during neuronal plasticity.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208151