

Product datasheet for **MC202522**

Tcf4 (NM_013685) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tcf4 (NM_013685) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tcf4
Synonyms:	5730422P05Rik; ASP-I2; bHLHb19; E2-2; E2.2; ITF-2; ITF-2b; ITF2; ME2; MITF-2A; MITF-2B; SEF-2; SEF2
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF:

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>BC043050 sequence for NM_013685
GTGATTTTGTAAAATGCATCACCAACAGCGAATGGCTGCCTTAGGGACGGACAAAGAGCTGAGTGATTT
ACTGGATTTTCAGTGCGATGTTTTTCGCCTCCTGTAAAGCAGTGGGAAAAATGGACCAACTTCTTTGGCGAGT
GGACATTTCACTGGCTCAAATGTAGAAGACAGAAGTAGCTCAGGGTCTGGGAACTGGAGGCCATCCAA
GCCCGTCCAGGAAGTATGGAGATGGGACTCCCTATGACCACATGACTAGCAGGGATCTTGGGTACATGA
CAATCTCTCTCCACCTTTTGTCAATCCAGAATACAAAGTAAAAACAGAAAGGGGCTCATACTCATCTTAT
GGGAGAGAAAAACGTTTCAGGGTTGCCACCAGCAGAGTCTCCTCGGAGGGGACATGGATATGGGCAATCCAG
GAACCCTTTTCGCCACCAAACTGGCTCCCACTATCAGTATTCAAGCAATAATGCCCGCCGGAGGCC
TCTTACAGTAGTGCCATGGAGGTACAGACAAAGAAAGTCCGAAAAGTTCCTCCGGTTTTCGCTTCTCA
GTCTACGCTCCTTCAGCCAGCACTGCCACTACAACAGGGACTCGCCAGGCTATCCTTCCCAAGCCAG
CAGCCAGCACTTTCCCTAGCTCCTTCTTCATGCAAGATGGCCATCACAGCAGCGACCCCTGGAGCTCCTC
CAGCGGGATGAATCAGCCCGCTACGGAGGGATGCTGGGCAATTCTTCTCATATCCACAGTCCAGCAGC
TACTGTAGCTGCATCCACATGAACGTTTGAGCTATCCATCCCACTCCTCGGCAGACATCAACTCCAGTC
TTCTCCGATGTCCACGTTCCATCGTAGTGGCACAAACCATTACAGCACCTTCTCCTGCACACCCCTGC
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GTCATCTCCAATTATGAAGGACCTTGCCTACTGCAAGCCGAATCGAAGACCGTTTGGAAAGACTG
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ACATGCATGGGATCATGGGACCTCCCAACGGAGCGATGGGTAGCCTGGGCTCAGGGTACGGAAGTAG
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TGACCCAGAGCAGAAGGCTGAGCGGAGAAGGAACGGAGGATGGCCAATAATGCCCGTGAAGCGCTGAG
GGTCCGAGATATCAACGAGGCTTCAAGGAGCTTGGCCGTATGGTGCAGCTCCACCTGAAGAGCGACAAG
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AAAGGAATCTGAACCCGAAAGCTGCCTGTCTGAAAAGAAGGGAGGAAGAGAAGGTGCTCAGAGCCTCC
CCCCTCCTTGGCTGGCCACACCCTGGGATGGGAGACGCAGCGAATCACATGGGACAGATGTGAAAA
GGTCCAAGTTGCTACCTTCTTAAACAAGAGACCACTTCTTAAACAGCTGATTACCTTAAACCCA
CATAAACACTGCCTTAAACCCGTTTTTTTTTGTAAATAAAGACAAGTCTGAGTAGTTATGAATCGCAG
ACGCAAGAGGTTTCAGCATTCCCAATTATCAAAAAACAGAAAAACAAACAAAAAATGAATGAAAGAAAG
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TAAACTTCTTTGGAAAAAATAAATTAATTTGTAAGTCTGAAAAAATATTTAATTTAAAAAATA
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CGTCAGCTAGTGTCTAATACCGGATATTGAATAGGGGAAGCCCGGCTGCCCTCGTAACAAAACAGC
AAACCTCTGATGGCAACGAAGTATGACATTAGCCATTCCTTAGGGTAGGAGGGACAGATGGATGTTAT
AGACCTATGACAAATATATATATAAATATATATAAATATATATAAATATATATAAATTTAGTGACTATGGTAAAGC
TTTTGTTGATTTGTTTCAGACTTTTTTCTCCTGTAAAAAATAGTACTGATTAACTTTTTAAAAAGAAAG
ATTTTACTGTAATATGGATTTTTTTTTTGTCTGATTTTTGTCCCTTCCCCCGTTTGTATCGTAACC
TGTAGTGCAACTCTGCTTCCGGAGGGCAGTGCAGGACGAAATGCTGACCCTGAAGTGTCTTCTCATT
ACAAATAGTAAAAAGTTGTTTCTCCAGTCTTTGGGAACACAGGACTTAAAGTACATCATGTGTAGGA
ATTACATGCAGCATTGCCCGGGCAGGCAAAAAGCGTTTGTCTGGCTGTGGCGTGCCTTGTACCTT
CCCCTGGGATTTTTCAGAGGTACACGTTTGAATGCTACAATGTTACCCTGTGCCTTCCAATGTTTATAT
CATCGAAACATAACATAATCAAAGTGGCTGTGATTTAACAAAAAACGATTCAAGTGTACCTACCTG
TGTAGCCGAAGTAGTGTGCAAGTACCGAGACGTTTCTGAATACATGGTCAGATTTTTTTTTGGAAAAATA
CAAAAATTAATAAAAAAAAAAAAAAAAAA
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Restriction Sites:

Ascl-NotI

ACCN:	NM_013685
Insert Size:	2013 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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:	<ol style="list-style-type: none"> 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:	BC043050 , AAH43050
RefSeq Size:	3318 bp
RefSeq ORF:	2013 bp
Locus ID:	21413
UniProt ID:	Q60722
Cytogenetics:	18 E2
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and it encodes the longer protein (isoform a).</p>