

Product datasheet for **MR224159**

Tcf12 (NM_011544) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tcf12 (NM_011544) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tcf12
Synonyms:	A130037E08Rik; ALF1; bHLHb20; HEB; HEBAIt; HTF-4; HTF4; ME1; REB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR224159 representing NM_011544
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAATCCCCAGCAGCAGCGCATGGCCGGATAGGGACCGACAAGGAGCTGAGCGACCTGCTGGACTTCA
GTGCGATGTTTTCTCCACCTGTTAATAGTGGGAAAACGAGACCAACAACACTGGGAAGTAGTCAGTTCAG
CGGGTCAGGTATGGATGAGCGTGGAGGAACAACATCTTGGGGAACAAGTGGTCAACCAAGCCCTCTAT
GATTCTACTAGAGGTTTTACAGACAGCCCTCATTACAGTGATCACTTGAATGACAGTCGATTAGGAACCC
ACGAAGGCTTGTCCCAACACCTTTTCACTGAACCTCAAATCTGATAGGGAAAACATCAGAGAGAGGCTCATT
TTCCCTGTACAGCAGAGACTCTGGACTCTCAGGCTGTCAGTCTAGTCTCCTGAGACAAGATCTAGGACTT
GGGAGCCCGGCACAGCTGTCTTCTCAGAAAGCCTGGAACACCATACTACTCATTCTCTGCCACAAGTT
CGAGAAGAAGACCGCTCCATGATTCTGTAGCCCTAGATCCTTTACAAGCGAAGAAAAGTAAAGAAAGGTGCC
TCCTGGCTACCTTCTTGTATATGCACCATCCCCAAATCTGACGATTTCAACCGTGAATCTCCTAGT
TACCCATCTCCAAGCCCAACCAAGTATGTTCCGCTAGCACTTTCTTTATGCAAGATGGGACCCACAGTT
CTTCTGACCTTTGGAGTTCATCGAATGGGATGAGCCAGCCTGGTTTTGGTGGGAATTCTGGGGACCTCCAC
ATCCCACATGTCTCAGTCCAGTAGTTATGGCAGCCTTCATTACATGACCGCTTGAGTTATCCTCCACAC
TCAGTGTACCAACAGACATAAACACAAGTCTTCCGCCAATGTCCAGCTTCCACCGTGGTAGTACCAGCA
GCTCACCATATGTTGCCGCTCACATACTCCTCCCATCAATGGATCAGATAGCATCTTAGGAACAGAGG
GAATGTGCTGGAAGCTCACAGACGGGTGATGCACTTGGGAAGGCCTTGGCATCTATTTATCCCTGAC
CACACAAGCAGTAGTTTTCCATCAAACCCATCAACACCAGTGGGATCTCCTTACCTCTCACAGGTACCA
GTCAGTGGCCAGAGCTGGAGGGCAAGCTCCTTCATCTCAAGCTATGAAAACACTCACTTCACTCCCTGAA
AAATCGAGTTGAGCAGCAACTTACAGCAGATTTGCAAGATGCAATGTCCTTCTTAAAGGATGTCTGTGAG
CAGTCTCGAATGGAAGACCGCTTAGACAGGCTGGATGATGCTATCCATGTGCTACGAAACCATGCAGTTG
GACCTTCTACAGTCTGCCTACTAGCCACAGTGACATACACAGTTTGTGGGACCATCCCATAATGCATC
AATTGGAAACCTCAATTCAAACTATGGAGGATCCAGCCTTGTACAAATAGTCGATCAGCTTCGATGGTC
GGAACACATCGGGAAGATTAGTCACTCAATGGCAATCATTCCGGTCTGTCTAGTACTGTTGCTGCCT
CAAACACAGAACTGAACCATAAAACACCAGAAAATTTAGAGGTGGTGTACAAAATCAGTCTGGAAGTGT
TGTTCCAACAGAAATCAAGACTGAAAACAAAGAAAAGATGAAAACCTTCATGAACCTCCTTCATCAGAT
GACATGAAATCAGATGATGAGTCTCCAGAAAGACATCAAGGTCTCATCTAGGGGCAGAACCAAGCAGTA
CCAATGAAGACGAGGATCTGAATCCAGAACAGAAAATCGAAAGGAGAAGGAAAGCGGATGGCTAACAA
TGCCAGAGAGCGCTGCGGTGCGGGATATTAACGAGGCGTTCAAGGAGCTTGGCCGAATGTGTCAGCTT
CATTTGAAGAGTAAAAACCTCAGACAAAACCTTCTCATTCTTCATCAGGCCGTGGCAGTCATCCTTAGTC
TAGAACAGCAAGTGAAGAGAGAGGAACCTCAACCCCAAAGCAGCCTGCCTTAAGAGAAGAGAAGAAAA
AGTCTCTGCTGCGTCAGCAGAGCCGCCAACACGTTGCCAGGAGCCATCCTGGGCTTAGTGAGTCTACC
AACCTATGGGTCATCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR224159 representing NM_011544
 Red=Cloning site Green=Tags(s)

MNPQQQRMAAIGTDKELSDLLDFSAMFSPVNSGKTRPTTLGSSQFSGSGMDERGGTTSWGTSGQPSPSY
 DSSRGFTDSPHYSDHLNDSRLGTHEGLSPTPFMNSNLIGKTSERGSFSLYSRDSGLSGCQSSLLRQDLGL
 GSPAQLSSSGKPGTPYYFSATSSRRRPLHDSVALDPLQAKKVRKVPPGLPSSVYAPSPNSDDFNRESPS
 YSPKPPPTSMFASTFFMQDGTSSSDLWSSNMGMSQPGFGGILGTSTSHMSQSSSYGSLHSHDRLSYPPH
 SVSPTDIINTSLPPMSSFHRGSTSSSPYVAASHTPPINGSDSILGTRGNAAGSSQTGDALGKALASIYSPD
 HTSSSFSPNPSTVPVGSPLTGTSSQWPRAAGQAPSSPSYENSLHSLKNRVEQQLHEHLQDAMSFLKDVCE
 QSRMEDRLDRLDDAIHVLNRHAVGPSTSLPTSHSDIHSLLGPSHNASIGNLNSNYGGSSLVTNSRSASMV
 GTHREDSVSLNGNHSVLSSTVAASNTLNHKTPEFRGGVQNGSGSVVPTIKTENKEKEDENLHEPPSSD
 DMKSDDESSQDKIKVSSRGRSTSTNEDEDLNPEQKIEREKERRMANNARERLRVRDINEAFKELGRMCQL
 HLKSEKPTKLLILHQAVAVILSLEQQVRERNLNPKAACLKREEEKVSAASAEPNTPGHPGLSEST
 NPMGHL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja2784_e01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



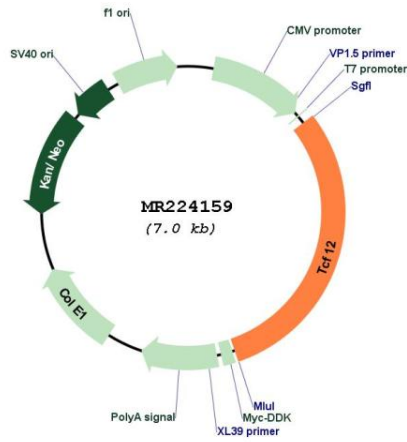
* The last codon before the Stop codon of the ORF

ACCN: NM_011544

ORF Size: 2121 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>
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:	<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:	NM_011544.3 , NP_035674.2
RefSeq Size:	4707 bp
RefSeq ORF:	2121 bp
Locus ID:	21406
UniProt ID:	Q61286
Cytogenetics:	9 39.85 cM
MW:	75.8 kDa
Gene Summary:	Transcriptional regulator. Involved in the initiation of neuronal differentiation. Activates transcription by binding to the E box (5'-CANNTG-3').[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR224159