

Product datasheet for **MR230038**

Tcf12 (NM_001253865) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tcf12 (NM_001253865) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tcf12
Synonyms:	A130037E08Rik; ALF1; bHLHb20; HEB; HEBAIt; HTF-4; HTF4; ME1; REB
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR230038 representing NM_001253865
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTTTCGCTAGCACTTTCTTTATGCAAGATGGGACCCACAGTTCTTCTGACCTTTGGAGTTCATCGAATG
 GGATGAGCCAGCCTGGTTTTGGTGAATTCTGGGGACCTCCACATCCACATGTCTCAGTCCAGTAGTTA
 TGGCAGCCTTCATTACATGACCCTTGAGTTATCCTCCACACTCAGTGTACCAACAGACATAAACACA
 AGTCTTCCGCCAATGTCCAGTTCACCGTGGTAGTACCAGCAGCTCACCATATGTTGCCGCTCACATA
 CTCCTCCCATCAATGGATCAGATAGCATCTTAGGAACCAGAGGAATGCTGCTGGAAGCTCACAGACGGG
 TGATGCACTTGGGAAGGCCTTGGCATCTATTTATCCCCTGACCACACAAGCAGTAGTTTTCCATCAAAC
 CCATCAACACCAGTGGGATCTCCTTCACCTCTCACAGTACCAGTCACTGGCCAGAGCTGGAGGGCAAG
 CTCCTTCACTCCAAGCTATGAAAACCTCACTTCACTCCCTGCAGTCTCGAATGGAAGACCGCTTAGACAG
 GCTGGATGATGCTATCCATGTGCTACGAAACCATGCAGTTGGACCTTCTACCAGTCTGCCTACTAGCCAC
 AGTGACATACACAGTTTGTCTGGGACCATCCCAATGCATCAATTGGAAACCTCAATTCAACTATGGAG
 GATCCAGCCTTGTACAATAGTCGATCAGCTTCGATGGTTCGGAACACATCGGGAAGATTCAATCAGTCT
 CAATGGCAATCATTTCGGTCTGTACTGTGCTGCCTCAAACACAGAACTGAACATAAAACACCA
 GAAAATTTAGAGGTGGTGTACAAAATCAGTCTGGAAGTGTGTTCCAACAGAAATCAAGACTGAAAACA
 AAGAAAAGATGAAAACCTTCATGAACCTCCTTCATCAGATGACATGAAATCAGATGATGAGTCTCCCA
 GAAAGACATCAAGGTCTCATCTAGGGCAGAACAGCAGTACCAATGAAGACGAGGATCTGAATCCAGAA
 CAGAAAATCGAAAGGAGAAGGAAAGGCGGATGGCTAACAAATGCCAGAGAGCGCCTGCGCGTGGGGATA
 TTAACGAGGCGTTCAAGGAGCTTGGCCGAATGTGTCAGTTCATTTGAAGAGTAAAAACCTCAGACAAA
 ACTTCTCATTCTCATCAGGCCGTGGCAGTCACTCTTAGTCTAGAACAGCAAGTGAGAGAGAGGAAACCTC
 AACCCCAAAGCAGCCTGCCTTAAGAGAAGAGAAGAAAAGTCTCTGCTGCGTCAGCAGAGCCGCCCA
 ACACGTTGCCAGGAGCCCATCTGGGCTTAGTGAGTCTACCAACCTATGGGTCATCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230038 representing NM_001253865
 Red=Cloning site Green=Tags(s)

MFASTFFMQDGHSSSDLWSSSNGMSQPGFGGILGTSTSHMSQSSSYGSLHSHDRLSYPPHSVSPDINT
 SLPPMSSFHRGSTSSSPYVAASHTPPINGSDSLILGTRGNAAGSSQTGDALGKALASIYSPDHTSSSFPSN
 PSTPVGSPSPLTGTSQWPRAGGQAPSSPSYENSLHSLQSRMEDRLDRLDDAIHVLNRHAVGPSTSLPTSH
 SDIHSLLGPSHNASIGNLSNYGGSSLVNRSASVMVGTHTREDSVSLNGNHSVLSTVAASNTLNHKTP
 ENFRGGVQNGSGSVVPTIEIKTENKEKDNLHEPPSSDDMKSDDESSQDKIKVSSRGRSTSTNEDEDLNPE
 QKIEREKERRMANNARERLRVRDINEAFKELGRMCQLHLKSEKPQTKLLILHQAVAVILSLEQQVREARNL
 NPKAACLKRREEEKVSAASAEPNTPGAHPGLSESTNPMGHL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

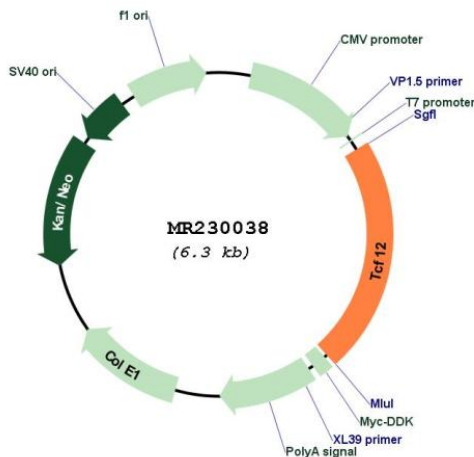
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001253865

ORF Size: 1389 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_001253865.1](#), [NP_001240794.1](#)

RefSeq Size: 4204 bp

RefSeq ORF: 1392 bp

Locus ID: 21406

UniProt ID: [Q61286](#)

Cytogenetics: 9 39.85 cM

MW: 50.1 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]