

## Product datasheet for **MC228109**

### **Tcf12 (NM\_001253864) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Tcf12 (NM_001253864) Mouse Untagged Clone
Tag:	Tag Free
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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**Fully Sequenced ORF:** >MC228109 representing NM\_001253864  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTACTGTGCTTATCCTGTCCCTGGAATGGGCAACAATCTTTGATGTATTACTACAATGGGAAAACGG  
 TATATGCACCATCCCAAATCTGACGATTTCAACCGTGAATCTCCTAGTTACCCATCTCCAAGCCACC  
 AACCAAGTATGTTTCGCTAGCACTTTCTTTATGCAAGATGGGACCCACAGTCTTCTGACCTTTGGAGTTCA  
 TCGAATGGGATGAGCCAGCCTGGTTTTGGTGAATTCTGGGGACCTCCACATCCACATGTCTCAGTCCA  
 GTAGTTATGGCAGCCTTCATTCACATGACCGCTTGAGTTATCCTCCACACTCAGTGTACCAACAGACAT  
 AAACACAAGTCTTCGCCAATGTCCAGCTTCCACCGTGGTAGTACCAGCAGCTCACCATATGTTGCCGCC  
 TCACATACTCTCCCATCAATGGATCAGATAGCATCCTAGGAACCAGAGGGAATGCTGCTGGAAGCTCAC  
 AGACGGGTGATGCACTTGGGAAGGCCTTGGCATCTATTTATCCCTGACCACACAAGCAGTAGTTTTCC  
 ATCAAACCCATCAACACCAGTGGGATCTCCTTACCTCTCACAGTACCAGTACAGTGGCCAGAGCTGGA  
 GGGCAAGCTCCTTCATCTCCAAGCTATGAAAACACTTCACTCCCTGCAGTCTCGAATGGAAGACCGCT  
 TAGACAGGCTGGATGATGCTATCCATGTGTACGAAACCATGCAGTTGGACCTTCTACCAGTCTGCCTAC  
 TAGCCACAGTGACATACAGATTTGCTGGGACCATCCCATAATGCATCAATTGGAACCTCAATCAAAC  
 TATGGAGGATCCAGCCTTGTTACAAATAGTCGATCAGCTTCGATGGTCCGGAACACATCGGGAAGATTCAG  
 TCAGTCTCAATGGCAATCATTCCGTCTGTCTAGTACTGTTGCTGCCTCAAACACAGAAGTGAACCATAA  
 AACACCAGAAAATTTAGAGGTGGTGTACAAAATCAGTCTGGAAGTGTGTTCCAACAGAAAATCAAGACT  
 GAAAACAAGAAAAGATGAAAACCTTCATGAACCTCCTTCATCAGATGACATGAAATCAGATGATGAGT  
 CCTCCCAGAAAGACATCAAGGTCTCATCTAGGGGCAGAACAGCAGTACCAATGAAGACGAGGATCTGAA  
 TCCAGAACAGAAAATCGAAAGGGAGAAGGAAAGCGGATGGCTAACAATGCCAGAGAGCGCTGCGCGTG  
 CGGGATATTAACGAGGCGTTCAAGGAGCTTGGCCGAATGTGTCAGCTTCATTTGAAGAGTAAAAACCTC  
 AGACAAAACCTTCTCATTCTTCATCAGGCCGTGGCAGTCACTTCTAGTCTAGAACAGCAAGTGAAGAGAG  
 GAACCTCAACCCCAAAGCAGCCTGCCTTAAGAGAAGAGAAGAAGAAAAGTCTCTGCTGCGTCAGCAGAG  
 CCGCCCAACACGTTGCCAGGAGCCATCTGGGCTTAGTGAGTCTACCAACCTATGGGTCATCT**GTA**A

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001253864
- Insert Size:** 1539 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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\\_001253864.1](#), [NP\\_001240793.1](#)

**RefSeq Size:** 3957 bp

**RefSeq ORF:** 1539 bp

**Locus ID:** 21406

**Cytogenetics:** 9 39.85 cM

**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]  
Transcript Variant: This variant (4) has a different 5' end and lacks several exons in the coding region, which results in the use of a downstream start codon, compared to variant 1. The resulting protein (isoform 4) is shorter and has a distinct N-terminus when it is compared to isoform 1.