

Product datasheet for **MC219158**

Ebf2 (NM_010095) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ebf2 (NM_010095) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ebf2
Synonyms:	D14Ggc1e; EBF-2; Mmot1; O/E-3; OE-3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC219158 representing NM_010095
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTTGGGATTCAAGATACGCTAGGAAGAGGACCAGCTCTGAAAGACAAGTCGCTGGTGCCGAGATGG
 ATTCGGTCAGGTCTGGGTCCGGAATGTCGGCGTGGTGGACGCCAATGTCGCGGCTCAGAGCGGAGTTGC
 TCTGTCCCGGCCCATTTTAAAAAGCAACCTCCTTCAAACCTTGAGGAAATCCAACCTCTTTTCATTTTGT
 CTGGCGCTCTACGACAGGCAGGGACAGCCGGTGGAGATTGAGCGCACAGCCTTCGTGGACTTTGTGGAGA
 ATGACAAAGAGCAAGGCAATGAGAAGACCAACAATGGTACTACTACAAGTTACAGCTCCTTTACAGCAA
 CGGTGTCCGCACGGAGCAGGACCTGTATGTCAGGCTCATCGACTCTGTACCAAACAGCCCATAGCCTAT
 GAGGGACAGAATAAGAATCCCGAAATGTCAGAGTTCTGTGACACAGAGGTGATGTGCAGTCGATGCT
 GTGAGAAGAAGAGCTGCGGGAACCGGAACGAGACCCCTTCAGACCCGGTCATCATCGACAGATTCTTTTT
 AAAATTTTCTGAAGTGAATCAGAATTGTTTAAAACAGCGGAAACCCAAGGGACATGAGGCGGTTT
 CAGGTCGTGTTGCCACAACAGTAAATGTGGATGGACATGTGCTGGCTGTTTCTGACAACATGTTTGTTT
 ATAACAATTCTAAGCATGGAAGGAGAGCAAGAAGGCTTGACCCATCTGAAGCTACACCCTGCATCAAAGC
 CATCAGCCCAAGTGAAGGCTGGACCACAGGAGGGGCCATGGTCATCATCATTGGTGACAACCTTTTTTGAT
 GGTCTCCAGGTTGTGTTGGTACCATGCTTGTATGGAGTGAGCTCATAACCCCTCATGCCATCAGAGTAC
 AGACCCCTCCCGGCATATCCCTGGAGTTGTGGAAGTGACACTATCTTATAAATCCAAACAGTTCTGCAA
 AGGAGCCCCGGCAGGTTTCATCTACACAGCCTTAAATGAACCCACCATAGACTATGGCTTCCAAAGATTG
 CAGAAAGTCATCCAAGGCACCCAGGTGACCCTGAGAGGCTAGCTAAGGAAATGCTGTTGAAAAGAGCTG
 CGGACCTGGTGGAAAGCCCTCTACGGCACACCACACAATAATCAGGACATCATTTTAAAGCGTGCTGCAGA
 CATTGCTGAAGCCCTGTACAGTGTCCCGAGGAACCCAGCCAGATTCCAGCTCTTTCCAGCTCCCGAGT
 CACAGCGGTATGATGGGTATCAACTCTTACGGCAGCCAGCTCGGCGTCAGCATTTCAGAGTCCACACAAG
 GAAATAACCAAGGATACATCCGCAACACAAGCAGCATCTCCCGCGGGGATACTCTCCAGCTCCACGCC
 TCAGCAATCTAATTACAGCACCTCCAGCAACAGCATGAACGGCTACAGCAATGTTCTATGGCCAACCTG
 GGTGTGCCAGGATCCCGGGATTTCTGAATGGCTCACCCACGGGCTCCCATATGGAATCATGTCTTCAA
 GCCCACCGTGGGATCTCCAGCACGTCTCCATCCTCCCGTTCTCTTTCAGTTTTTCTGCTGTCAA
 ACAGAAGAGTGCCTTTGCCCTGTATCAGGCCCAAGGCTCCCATCGCTGCCTGCTCCAGCGGCAAT
 GGAACGGATTACAGCCATGACAGGACTTGTGTTCCCGGATG**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_010095
Insert Size: 1728 bp

OTI Disclaimer: 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.

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](#)

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_010095.6](#), [NP_034225.1](#)

RefSeq Size: 5527 bp

RefSeq ORF: 1728 bp

Locus ID: 13592

UniProt ID: [O08792](#)

Cytogenetics: 14 D1

Gene Summary: Transcription factor that, in osteoblasts, activates the decoy receptor for RANKL, TNFRSF11B, which in turn regulates osteoclast differentiation. Acts in synergy with the Wnt-responsive LEF1/CTNNB1 pathway. Recognizes variations of the palindromic sequence 5'-ATTCCCNNGGAATT-3'. [UniProtKB/Swiss-Prot Function]
 Transcript Variant: This variant (2) uses an alternate splice site in 5' UTR, compared to variant 1. Variants 1, 2 and 3 encode the same protein.