

Product datasheet for **MR224591**

Ebf2 (NM_010095) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ebf2 (NM_010095) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide Sequence:

>MR224591 representing NM_010095
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTTGGGATTCAAGATACGCTAGGAAGAGACCAGCTCTGAAAGACAAGTCGCTGGTGCCGAGATGG
 ATTCGGTCAGGTCTGGGTCCGGAATGTCGGCGTGGTGGACGCCAATGTCGCGGCTCAGAGCGGAGTTGC
 TCTGTCCCGGCCATTTTAAAAAGCAACCTCCTTCAAACCTTGAGGAAATCCAACCTCTTTCATTTTGTCT
 CTGGCGCTCTACGACAGGCAGGGACAGCCGGTGGAGATTGAGCGCACAGCCTTCGTGGACTTTGTGGAGA
 ATGACAAAAGACAAAGCAATGAGAAGACCAACAATGGTACTACTACAAGTTACAGCTCCTTTACAGCAA
 CGGTGTCCGCACGGAGCAGGACCTGTATGTCAGGCTCATCGACTCTGTACCAAACAGCCCATAGCCTAT
 GAGGGACAGAATAAGAATCCCGAAATGTCAGAGTTCTGTGACACAGAGGTGATGTGCAGTCGATGCT
 GTGAGAAGAAGAGCTGCGGGAACCGGAACGAGACCCCTTCAGACCCGGTATCATCGACAGATTCTTTTT
 AAAATTTTCTGAAGTGAATCAGAATTGTTTAAAACAGCGGAAACCAAGGGACATGAGGCGGTTTC
 CAGGTCGTGTTGCCACAACAGTAAATGTGGATGGACATGTGCTGGCTGTTTCTGACAACATGTTTGTTTC
 ATAACAATTCTAAGCATGGAAGGAGAGCAAGAAGGCTTGACCCATCTGAAGCTACACCCTGCATCAAAGC
 CATCAGCCCAAGTGAAGGCTGGACCACAGGAGGGGCCATGGTCATCATCATTGGTGACAACCTTTTTGAT
 GGTCTCCAGGTTGTGTTGGTACCATGCTTGTATGGAGTGAGCTCATAACCCCTCATGCCATCAGAGTAC
 AGACCCCTCCCGGCATATCCCTGGAGTTGTGGAAGTGACACTATCTTATAAATCCAAACAGTTCTGCAA
 AGGAGCCCCGGCAGGTTTCATCTACACAGCCTTAAATGAACCCACCATAGACTATGGCTTCCAAAGATTG
 CAGAAAGTCAATCCAAGGCACCCAGGTGACCTGAGAGGCTAGCTAAGGAAATGCTGTTGAAAAGAGCTG
 CGGACCTGGTGAAGCCCTCTACGGCACACCACAATAATCAGGACATCATTTTAAAGCTGTGCAGAC
 CATTGCTGAAGCCCTGTACAGTGTCCCGAAGCAACCCAGCCAGATTCCAGCTCTTTCAGCTCCCGAGCT
 CACAGCGGTATGATGGGTATCAACTCTTACGGCAGCCAGCTCGGCGTCAGCATTTCAGAGTCCACACAAG
 GAAATAACCAAGGATACATCCGCAACACAAGCAGCATCTCCCGCGGGGATACTCCTCCAGCTCCACGCC
 TCAGCAATCTAATTACAGCACCTCCAGCAACAGCATGAACGGCTACAGCAATGTTCTATGGCCAACCTG
 GGTGTGCCAGGATCCCGGGATTCTGAATGGCTCACCCAGGGCTCCCATATGGAATCATGTCTTCAA
 GCCCCACCGTGGGATCCTCCAGCACGTCTCCATCCTCCCGTTCCTCTCAGTTTTCTGCTGTCAA
 ACAGAAGAGTGCCTTTGCCCTGTATCAGGCCCAAGGCTCCCATCGCTGCCTGCTCCAGCGGCAAT
 GGAACCGATTACAGCCATGACAGGACTTGTGTTCCCCGATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR224591 representing NM_010095
 Red=Cloning site Green=Tags(s)

MFGIQDTLGRGPALKDKSLGAEMDSVRSWVRNVGVVDANVAAQSGVALSRAHFQPPSNLRKSNFFHFV
 LALYDRQQPVEIERTAFVDFVENDKEQNEKTNNGTHYKQLLYSNGVRTEQDLYVRLIDSVTKQPIAY
 EGQKNPEMCRVLLTHEVMCSRCEKKSCGNRNETPSDPVIDRFFLKFFLKCNQNLKTAGNPRDMRRF
 QVVLSTTVNVDGHVLAUSDNMFVHNSKHGRRARRLDPEATPCIKAIISPSEGWTTGGAMVIIIGDNFFD
 GLQVVFVGTMLVWSELITPHAIRVQTPPRHIPGVVEVTL SYKSKQFCKGAPGRFIYALNEPTIDYGFQRL
 QKVIPRHPGDPERLAKEMLLKRAADLVEALYGTPHNNQDIILKRAADIAEALYSVPRNPSQIPALSSSPA
 HSGMMGINSYGSQLVGSIESTQGNQGYIRNTSSI SPRGYSSSSTPQQSNYSTSSNSMNGYSNVPANL
 GVPGPSGFLNGSPTGSPYIMSSSPTVGSSTSSILPFSSSVFPAVKQKSAFAPVIRPQGSPPACSSGN
 GNGFRAMTGLVPPM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

ACCN:

NM_010095

ORF Size:

1725 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](#)

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

RefSeq Size: 5527 bp

RefSeq ORF: 1728 bp

Locus ID: 13592

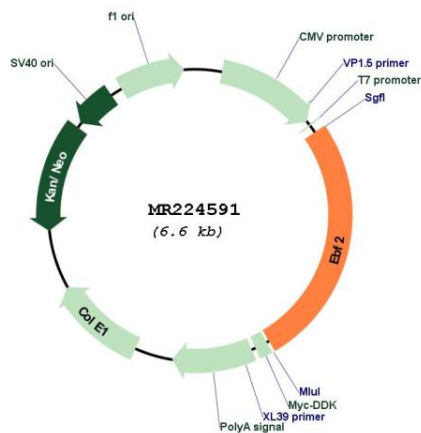
UniProt ID: [O08792](#)

Cytogenetics: 14 D1

MW: 63.1 kDa

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]

Product images:



Circular map for MR224591