

Product datasheet for **MR230561**

Ebf2 (NM_001276387) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ebf2 (NM_001276387) 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:

>MR230561 representing NM_001276387
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTTGGGATTCAAGATACGCTAGGAAGAGACCAGCTCTGAAAGACAAGTCGCTGGTGCCGAGATGG
 ATTCGGTCAGGTCTGGGTCCGGAATGTCGGCGTGGTGGACGCCAATGTCGCGGCTCAGAGCGGAGTTGC
 TCTGTCCCGGCCCATTTTAAAAAGCAACCTCCTTCAAACCTTGAGGAAATCCAACCTCTTTCATTTTGTCT
 CTGGCGCTCTACGACAGGCAGGGACAGCCGGTGGAGATTGAGCGCACAGCCTTCGTGGACTTTGTGGAGA
 ATGACAAAAGAGCAAGGCAATGAGAAGACCAACAATGGTACTACTACAAGTTACAGCTCCTTTACAGCAA
 CGGTGTCCGCACGGAGCAGGACCTGTATGTCAGGCTCATCGACTCTGTACCAAACAGCCATAGCCTAT
 GAGGGACAGAATAAGAATCCCGAAATGTCAGAGTTCTGTGACACAGAGGTGATGTGCAGTCGATGCT
 GTGAGAAGAAGAGCTGCGGGAACCGGAACGAGACCCCTTCAGACCCGGTATCATCGACAGATTCTTTTT
 AAAATTTTCTGAAGTGAATCAGAATTGTTTAAAACAGCGGAAACCAAGGGACATGAGGCGGTTTC
 CAGGTCGTGTTGCCACAACAGTAAATGTGGATGGACATGTGCTGGCTGTTTCTGACAACATGTTTGTTTC
 ATAACAATTCTAAGCATGGAAGGAGAGCAAGAAGGCTTGACCCATCTGAAGCTACACCCTGCATCAAAGC
 CATCAGCCCAAGTGAAGGCTGGACCACAGGAGGGGCCATGGTCATCATCATTGGTGACAACCTTTTTTGAT
 GGTCTCCAGGTTGTGTTGGTACCATGCTTGTATGGAGTGAGCTCATAACCCCTCATGCCATCAGAGTAC
 AGACCCCTCCCGGCATATCCCTGGAGTTGTGGAAGTGACACTATCTTATAAATCCAAACAGTTCTGCAA
 AGGAGCCCCGGCAGGTTTCATCTACACAGCCTTAAATGAACCCACCATAGACTATGGCTTCCAAAGATTG
 CAGAAAGTCAATCCAAGGCACCCAGGTGACCCCTGAGAGGCTAGCTAAGGAAATGCTGTTGAAAAGAGCTG
 CGGACCTGGTGAAGCCCTCTACGGCACACCACACAATAATCAGGACATCATTTTTAAGCGTGTGCAGA
 CATTGCTGAAGCCCTGTACAGTGTCCCGAGGAACCCAGCCAGATTCCAGCTCTTTCCAGCTCCCGAGCT
 CACAGCGGTATGATGGGTATCAACTCTTACGGCAGCCAGCTCGGCGTCAGCATTTCAGAGTCCACACAAG
 GAAATAACCAAGGATACATCCGCAACACAAGCAGCATCTCCCGCGGGGATACTCTCCAGCTCCACGCC
 TCAGCAATCTAATTACAGCACCTCCAGCAACAGCATGAACGGCTACAGCAATGTTCTATGGCCAACCTG
 GGTGTGCCAGGATCCCGGGATTCTGAATGGCTCACCCAGGGCTCCCATATGGAATCATGTCTTCAA
 GCCCCACCGTGGGATCTCCAGCACGTCTCCATCCTCCCGTTCTCTTTCAGTTTTCTGCTGTCAA
 ACAGAAGAGTGCCTTTGCCCTGTATCAGGCCCAAGGCTCCCATCGCTGCCTGCTCCAGCGGCAAT
 GGAACGGATTACAGCCATGACAGGACTTGTGTTCCCCGATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230561 representing NM_001276387
 Red=Cloning site Green=Tags(s)

MFGIQDTLGRGPALKDKSLGAEMDSVRSWVRNVGVVDANVAAQSGVALSRAHFQPPSNLRKSNFFHFV
 LALYDRQQPVEIERTAFVDFVENDKEQGNEKTNNGTHYKQLLYSNGVRTEQDLYVRLIDSVTKQPIAY
 EGQKNPEMCRVLLTHEVMCSRCEKKSCGNRNETPSDPVIDRFFLKFFLKCNQNLKTAGNPRDMRRF
 QVVLSTTVNVDGHVLAUSDNMFVHNSKHGRRARRLDPEATPCIKAIISPSEGWTGAMVIIIGDNFFD
 GLQVVFVGTMLVWSELITPHAIRVQTPPRHIPGVVEVTL SYKSKQFCKGAPGRFIYALNEPTIDYGFQRL
 QKVIPRHPGDPERLAKEMLLKRAADLVEALYGTPHNNQDIILKRAADIAEALYSVPRNPSQIPALSSSPA
 HSGMMGINSYGSQLVGSIESTQGNQGYIRNTSSI SPRGYSSSSTPQQSNYSTSSNSMNGYSNVPANL
 GVPGPSGFLNGSPTGSPYGMSSSPTVGSSTSSILPFSSSVFPAVKQKSAFAPVIRPQGSPPACSSGN
 GNGFRAMTGLVPPM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001276387

ORF Size: 1725 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_001276387.1](#), [NP_001263316.1](#)

RefSeq Size: 5532 bp

RefSeq ORF: 1728 bp

Locus ID: 13592

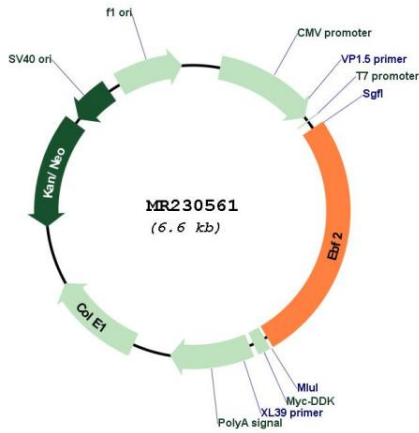
UniProt ID: [O08792](#)

Cytogenetics: 14 D1

MW: 62.6 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 MR230561