

## Product datasheet for **RG220630**

### **EBF2 (NM\_022659) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	EBF2 (NM_022659) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EBF2
Synonyms:	COE2; EBF-2; O/E-3; OE-3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG220630 representing NM\_022659  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTTTGAATTCAAGATACTTTAGGAAGAGGACCAACTCTGAAAGAGAAATCGCTGGGCGCGGAGATGG  
 ATTCGGTCAGGTCTGGGTCCGGAATGTCGGAGTGGTGGACGCTAATGTCGCCCGCAGAGCGGGTTCGC  
 CCTGTCCCGGCCCACTTTGAGAAAACAGCCTCCTTCCAACCTTGAGGAAATCCAACCTCTTCACTTCGTC  
 CTGGCGCTCTATGACAGGCAGGGCCAGCCGGTGGAGATCGAGCGGACGGCCTTCGTGGACTTTGTGGAGA  
 ATGACAAAAGAACAAGGCAACGAGAAGACCAACAACGGCACTACTACAAGTTACAGCTCCTCTACAGCAA  
 CGGTGTCCGCACGGAACAGGACCTCTATGTCAGGCTCATCGACTCGGTACCAAGCAGCCCATCGTTAC  
 GAGGGACAGAATAAGAATCCGGAATGTCCGAGTTCTCCTGACGCACGAAGTATGTGTAGTCGATGCT  
 GCGAAAAGAAAAGCTGTGAAACCGAAATGAGACTCCATCGACCAGTCATAATTGACAGATTCTTTTT  
 AAAATTTTCTCAAGTCAATCAGAATTGTTTAAAACAGCAGGAAACCAAGGGACATGAGACGGTTT  
 CAGGTTGTGTGCAACAACGGTGAATGTGGATGGACACGTCCTGGCTGTTTCTGACAACATGTTGTTC  
 ATAACAACCTCAAGCATGGACGGAGAGCAAGAAGACTCGATCCATCGGAAGCTACCCCTGCATCAAAGC  
 CATTAGCCCGAGTGAAGGCTGGACCACAGGAGGCCATGGTCATCATCATCGGGGACAACCTTCTTTGAT  
 GGTCTCCAAGTGGTGTGGGACTATGCTTGTATGGAGCGAGCTAATAACCCCTCATGCCATCAGAGTAC  
 AGACTCCTCCCGGCACATCCAGGCGTGGTAGAGGTGACATTATCTTATAAATCTAAACAGTTCTGCAA  
 AGGAGCCCCAGGAAGGTTCAATTTACACAGCATTAATGAACCCACCATAGACTATGGCTTCCAGAGACTG  
 CAGAAGGTACCCCTAGGCATCCTGGAGATCCTGAGAGATTAGCTAAGGAGATGCTGTTGAAAAGAGCTG  
 CAGATCTAGTGAAGCTCTTTATGGCACACCACACAATAACCAGGACATCATTTTGAAGCGAGCCGACGA  
 CATTGCTGAAGCTCTCTACAGCGTCCCCAGGAATCCCAGCCAGCTTCCAGCCCTCTCTAGCTCCCCAGCG  
 CACAGTGGCATGATGGGAATCAACTCCTATGGCAGCCAGCTTGGGGTCAGCATCTCAGAGTCAACACAAG  
 GAAATAATCAAGGTACATCCGCAACACAAGCAGCATCTCTCCGCGGGGATACTCTTCCAGCTCCACGCC  
 TCAACAGTCTAATTACAGTACCTCCAGCAACAGTATGAATGGCTACAGCAATGTCCCATGGCCAACCTG  
 GGTGTTCCAGGTTACCAGGATTTCTAAATGGCTACCCACCGGCTCTCCTTATGGAATCATGTCATCAA  
 GTCCACCGTTGGGTCTTCCAGCACATCCTCCATCCTCCATTTCTCTCAGTTTTCTCTGCTGTCAA  
 ACAGAAGAGTGCCTTTGCCCTGTATCAGGCCCAAGGCTCCCCTTACCTGCCTGCTCCAGCGGCAAT  
 GGAAATGGATTACAGCCATGACCGGACTTGTGTACCCCGATG

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG220630 representing NM\_022659  
 Red=Cloning site Green=Tags(s)

MFGIQDTLGRGPTLKEKSLGAEMDSVRSWVRNVGVVDANVAAQSGVALSRAHFEKQPPSNLRKSNFFHFV  
 LALYDRQGQPVEIERTAFVDFVENDKEQNEKTNNGTHYKQLLYSNGVRTEQDLVYRLIDSVTKQPIAY  
 EGQNKNPMECRVLLTHEVMCSRCEKSKCGNRNETPSDPVIIDRFLLKFFLKNQNLKTAGNPRDMRRF  
 QVVLSTTVNVDGHVLAUSDNMFVHNSKHGRRARRLDPSEATPCIKAIISPSEGWTGGAMVIIIGDNFFD  
 GLQVVFMTLVWSELITPHAIRVQTPPRHIPGVVEVTLVSYKSKQFCGAPGRFIYALNEPTIDYGFQRL  
 QKVIPRHPGDPERLAKEMLLKRAADLVEALYGTPHNNQDIILKRAADIAEALYSVPRNPSQLPALSSSPA  
 HSGMMGINSYGSQLVSISESTQGNQYIRNTSSISPRGYSSSSTPQQSNYSTSSNSMNGYSNVPANL  
 GVPGSPGFLNGSPTGSPYIMSSSPTVGSSTSSILPFSSSVFPAVKQKSAFAPVIRPQGSPPACSSGN  
 NGFRAMTGLVPPM

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_022659

**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](mailto: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).

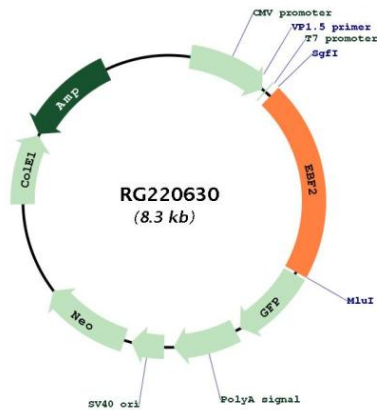
**Reconstitution Method:**

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\\_022659.4](#)  
 RefSeq Size: 2297 bp  
 RefSeq ORF: 1728 bp  
 Locus ID: 64641  
 UniProt ID: [Q9HAK2](#)  
 Cytogenetics: 8p21.2

**Gene Summary:** The protein encoded by this gene belongs to the COE (Collier/Olf/EBF) family of non-basic, helix-loop-helix transcription factors that have a well conserved DNA binding domain. The COE family proteins play an important role in variety of developmental processes. Studies in mouse suggest that this gene may be involved in the differentiation of osteoblasts. [provided by RefSeq, Oct 2011]

**Product images:**



Circular map for RG220630