

Product datasheet for **RG215222**

EBF3 (NM_001005463) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EBF3 (NM_001005463) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EBF3
Synonyms:	COE3; EBF-3; HADDS; O/E-2; OE-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG215222 representing NM_001005463
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTTGGGATTCAAGAGAATATTCGCGCGGGGGGACGACCATGAAGGAGGAGCCGCTGGCGACGGCA
 TGAACCCGGTGCCTCGTGGATGCACACGGCGGGCGTGGTGGACGCCAACACGGCCGCCAGAGCGCGT
 GGGGCTGGCGCGGGCGCACTTCGAGAAGCAGCCGCTTCCAACCTCCGGAATCCAATTTCTTCCACTTC
 GTGCTGGCGCTCTACGATAGGCAGGGGACGCGGTGGAGATTGAAAGGACCGCTTTTGTGGACTTTGTGG
 AGAAAGAGAAAGAGCCAAACAACGAGAAAACCAACAACGGCATCCACTATAAACTCCAGTTATTGTACAG
 CAACGGAGTCAGAACAGAGCAAGATCTGTATGTTGCGCTCATAGATTCAATGACCAAACAGGCCATCGTC
 TACGAGGGCCAGGACAAGAACCCGGAGATGTGCCGTGTGCTGCTGACCCACGAGATCATGTGCAGCCGGT
 GCTGTGACAAGAAAAGTTGTGGCAATAGAAACGAAACGCCCTCAGACCCTGTAATCATTGACAGATTCTT
 TCTAAAGTTTTCTCAAGTGAATCAGAACTGTTTGAAGAATGCAGGCAACCCTCGAGATATGCGGAGA
 TTCCAGGTTGTTGTATCGACAACAGTCAACGTGGACGGCCACGTGCTGGCCGTGTGAGACAACATGTTTG
 TGCACAACAATTCAAAACACGGGAGGCGGGCCCGCCCTAGACCCGTCAGAAGCCACTCCGTGCATCAA
 GGCCATCAGTCCCAGTGAAGGCTGGACCAGGGGGTGCCACCGTCATCATAATTGGCGACAACCTCTTT
 GACGGGTGCAAGTTGTATTGGAACATGTTGGTGTGGAGCGAGCTGATAACTCCCCATGCCATCCGAG
 TCCAGACCCCGCGGAGGCACATTCCTGGCGTGTGCAAGTGACCCCTCTCTACAAATCCAAGCAGTTCTG
 CAAAGGTGCTCCTGGCGCTTTGTCTACACCGCCCTTAATGAACCAACCATAGATTACGGCTTTAGAGG
 TTGCAGAAAGTGATCCCAAGACATCCGGGTGATCCCGAAAGGTTACCCAAGGAGGTGTTACTGAAGCGGG
 CGGCGGACCTGGTGAAGCCTTATACGGAATGCCTCACAACAACAGGAGATCATCTTGAAGCAGCGGC
 GGACATCGCCGAGGCGCTGTACAGCGTTCCCGCAATCACAACCAGATCCCACCCCTGGGCAACAACCCCT
 GCACACACGGGCATGATGGGCGTCAACTCCTTACGAGCCAGCTAGCCGTCAACGTGTGAGAGAGCTCAC
 AAGCCAACGACCAAGTCGGCTACAGTCGCAATACAAGCAGCGTGTCCCGCGAGGCTACGTCCCCAGCAG
 TACTCCCCAGCAGTCCAATTACAACACAGTCAGCACTAGCATGAATGGATATGGAAGTGGCGCCATGGCC
 AGTCTAGGGTCCCTGGCTCGCTGGATTTCTTAATGGCTCCTCCGCTAACTCTCCCTACGGCATGAAAC
 AGAAGAGCGCCTTCGCGCCCGTGGTCCGGCCCCAAGCCTCTCCTCCTCCTCCTGCACCAGCGCCAACGG
 GAATGGACTGCAAGCTATGTCTGGGCTGGTAGTCCCGCCAATG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG215222 representing NM_001005463
 Red=Cloning site Green=Tags(s)

MFGIQENIPRGGTTMKEEPLGSGMNPVRSWMHTAGVVDANTAAQSGVGLARAHFEKQPPSNLRKSNFFHF
 VLALYDRQGQPVEIERTAFVDFVEKEKEPNNEKTNNGIHYKLQLLYSNGVRTEQDLVYVRLIDSMTKQAIY
 YEGQDKNPEMCRVLLTHEIMCSRCCDKKSCGNRNETPSDPVIIDRFLLKFFLKCNQCLKNAGNPRDMRR
 FQVVVSTTVNVDGHVLAUSDNMFVHNNSKHGRRARRLDPSEATPCIKAIISPSEGWTTGGATVIIIGDNFF
 DGLQVVFGTMLVWSELITPHAIRVQTPPRHIPGVVEVTL SYKSKQFCKGAPGRFVYALNEPTIDYGFQR
 LQKVI PRHPGDPERLPKEVLLKRAADLVEALYGMPHNNQEIILKRAADIAEALYSVPRNHNQIPTLGNNP
 AHTGMMGVNSFSSQLAVNVSETSQANDQVGYSRNTSSVSPRGYVPSSTPQQSNYNTVSTSMNGYSGAMA
 SLGVPGSPGFLNGSSANSPLYGMKQKSAFAPVVRPQASPPPSCTSANGNGLQAMSGLVVPPM

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001005463

ORF Size: 1653 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_001005463.3](#)

RefSeq Size: 4361 bp

RefSeq ORF: 1656 bp

Locus ID: 253738

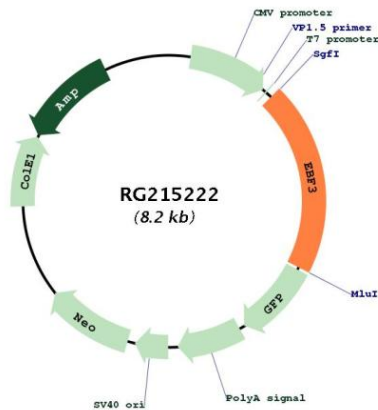
UniProt ID: [Q9H4W6](#)

Cytogenetics: 10q26.3

Protein Families: Transcription Factors

Gene Summary: This gene encodes a member of the early B-cell factor (EBF) family of DNA binding transcription factors. EBF proteins are involved in B-cell differentiation, bone development and neurogenesis, and may also function as tumor suppressors. The encoded protein inhibits cell survival through the regulation of genes involved in cell cycle arrest and apoptosis, and aberrant methylation or deletion of this gene may play a role in multiple malignancies including glioblastoma multiforme and gastric carcinoma. [provided by RefSeq, Sep 2011]

Product images:



Circular map for RG215222