

Product datasheet for **RG215467**

EBF4 (NM_020833) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	EBF4
Synonyms:	COE4; early B-cell factor 4; KIAA1442
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence: >RG215467 representing NM_020833
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGACGCTCTGCCCCGACGCGGGCTGAACCTGAAGGAGGAGCCGCTGCTGCCCGCCGGCCTGGGCTCAG
 TGCGCTCCTGGATGCAGGGCGCGGGCATCCTGGACGCCAGCACCGCGCGCAGAGTGGCGTGGGTCTGGC
 ACGAGCACATTTTGAAGAAGCAGCCTCCCTCCAACCTCAGGAAATCCAACCTTCTTCCACTTCGTGCTGGCC
 ATGTACGACCGGCAGGGGCGAGCCCTGGAGGTGGAGCGCACAGCCTTCATCGACTTCGTGAAAAAGGACC
 GAGAGCCCGGGGCGAAAGACTAACAATGGGATCCATTACCGCCTCCGGCTGGTGTATAACAATGGACT
 GCGGACAGAGCAAGACCTCTACGTGCGTCTCATCGACTCCATGTCCAAACAGGCCATCATCTATGAGGGG
 CAGGACAAGAACCCGAAATGTGCCGAGTGTCTCAGCATGAGATCATGTGCAGCCGGTGTGTGACC
 GGAAGAGCTGTGGCAACCGAATGAGACGCCCTCAGACCCCGTCATCATGACAGGTTCTTCTCAAGTT
 CTTCTCAATGCAACCAGAACTGCCTGAAGAATGCGGGGAATCCAGAGACATGCGCCGCTCCAGGTG
 GTGGTGTCCACGAGGTGAGCGTGGACGGACACGTGCTGGCCGTGTCCGACAACATGTTTGTGCACAACA
 ACTCCAAGCATGGCCGACGGGCGCGCCGCTGGACCCCTCCGAAGTGCACCCCTGCATCAAGGCCAT
 CAGCCCCGGGAGGGCTGGACACGGGCGCGCCACCGTCATTGTATCGGCGACAACCTTCTTCGACGGG
 TTGACGGTCTGTTCGAAACGTGCTCGTGTGGAGCGAGCTCATCACGCCACGCCATCCGGGTGCAGA
 CGCCCCCGCGGCACATCCCGGGGTGGTGGAGGTGACCTCTCCTACAAGTCCAAGCAGTTTGTCAAGGG
 ATGCCCGCGCGCTTTGTCTACACAGCTCTGAACGAGGCCACCATTTGACTACGATTCCAGAGGCTACAG
 AAAGTCATTCCAGACACCCCGGAGACCCGAGAGGCTGCCAAGGAAGTGTGCTGAAGCGGGCGGCCG
 ACTTGGCAGAAGCCCTGTACGAGTGCCTGGCAGTAACAGGAGCTGCTCTGAAGCGCGCGGCGGACGT
 GGCCGAGGCTCTGTACAGCACCCCGCGCACCCGGGCGCTCGCACCCCTGGCCCCGAGCCACCCACAC
 CCCGCGCTGTGGGATCAACGCTTCAGCAGCCCGCTGGCCATCGCCGTGCGGGACGCCACCCCGGGG
 CCGAGCCGGCTACGCGCGCAGCTGCAGCAGCGCTCCCCCGGGGTTTCGCGCCAGCCCGGCTCGCA
 GCAGAGCGCTACGGCGCGGCTCGGAGTGGCTGGGCGCTACGGCGCGCGGGGCTGGCCGGCCTC
 GGCGTGCTGGGTCCCCAGCTTCTCAATGGCTCCACGCCACCTCGCCCTTCGCCAAGGAGCGCCTTC
 GCCCCGTGTGCGCCCCCAAGCTCCCCACCCAGGCTGCCCCAGAGCCACGGAGAGGGCTTCCAG
 ACCAGTCTTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG215467 representing NM_020833
 Red=Cloning site Green=Tags(s)

MDALPRSGNLNKEEPLLPAGLGSVRSWMQAGILDASTAAQSGVGLARAHFEKQPPSNLRKSNFFHFVLA
 MYDRQGQPVVERTAFIDFVEKDREPGAETNNGIHYRLRLVYNNGLRTEQDLVYRLIDSMKQAIIEG
 QDKNPEMCRVLLTHEIMSRCCDRKSCGNRNETPSDPVVIDRFFLKFFLKCNQCNCLKNAGNPRDMRRFQV
 VVSTTVSVDGHVLAVSDNMFVHNNSKHGRRARRLDPSEAATPCIKAI SPGEGWTTGGATVIVIGDNFFDG
 LQVVFVGNVLVWSELITPHAIRVQTTPRHIPGVVEVTL SYKSKQFCKGCPGRFVYTALNEPTIDYGFQRLQ
 KVIPRHPGDPERLPKEVLLKRAADLAALYGVPGSNQELLLKRAADVAEALYSTPRAPGPLAPLAPSHPH
 PAVVGINAFSSPLAIAVGDATPGPEPGYARSCSSASPRGFAPSPGSQQSGYGGGLGAGLGGYGAPGVAGL
 GVPGPSFLNGSTATSPFAKERLRPRAAPPKLTPGLPQSPRRGASRPVF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_020833

ORF Size: 1620 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.

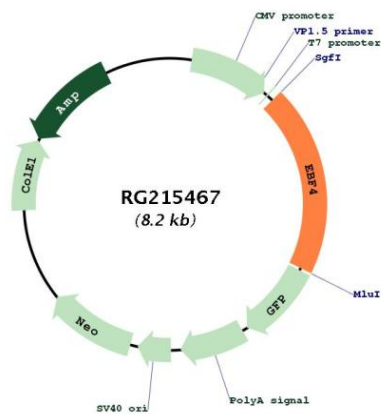
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_020833.2](#)

RefSeq Size: 2814 bp

RefSeq ORF:	1622 bp
Locus ID:	57593
Cytogenetics:	20p13
Gene Summary:	EBF4 belongs to the conserved Olf/EBF family of helix-loop-helix transcription factors, members of which play important roles in neural development and B-cell maturation (Wang et al., 2002 [PubMed 12139918]).[supplied by OMIM, Mar 2008]

Product images:



Circular map for RG215467