

Product datasheet for **RG207068**

EFHB (NM_144715) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	EFHB
Synonyms:	CFAP21
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence: >RG207068 representing NM_144715
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGAACCAAGACAGGAATGAAAAAGAGTCTACCTGTGTTTAAATGAAACCAACACAGAGATTAAGC
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 ACTTCCCAGGCTAATTACTCCACTGAAGCAAAAAAGTATTTCAACTTCAGATATCCACTGCTGGAGTA
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

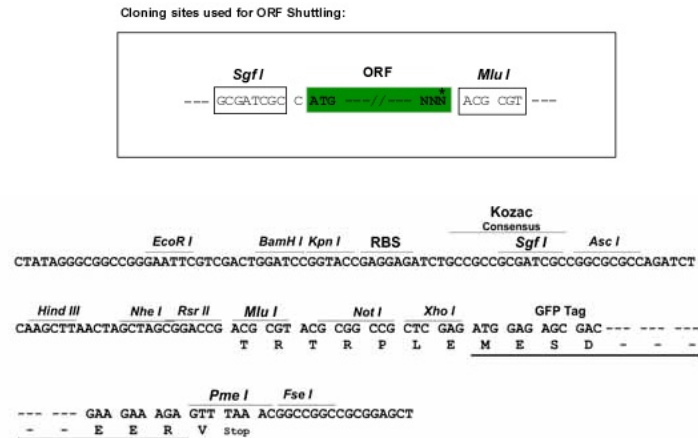
Protein Sequence: >RG207068 representing NM_144715
 Red=Cloning site Green=Tags(s)

MEPRQEMEKESTCVLMKPNTTEIKLPVEVDIGLTQAEGPDETKNTEPQMGLVIEPPQCQFAQQHEQRKEAG
 NIESGVEPPDIRPIYSGKFFDRTPCWPSAGKVIPVGYRVATCLTEKLRLITPPEAKKYFNFRYPAGV
 ERVFGGRANDPQIAPYLTHGIRSKISILANTLINPQPIITTFQQIKDKKESIYLSNRRAPLKGSHDQAPG
 LPKGMDTINTTFTGTAIKEYSAKDVVNPPKSYEEVFKEGNEGHDLVYVSHNDYYAGEAKNRKYNPSSFHR
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 GACLPEEYGVGDLIHNRLPDEYLRGKDQRALIAAVRHHLKKVNYQKFDLLAAFRHYDKKGDMIDKD
 ELQEACDQANLSLDDKLLDQLFDYCDVDNDGFINYLEFANFLNWKDKMLLKEYEERVIKGRKPCVNP
 EANVEEPEQTLLIKPEDIVLKEAGSTEKTLRLTLRPSDKVSNNYKTSSEINAIIVGAIPSTCYPICGVPT
 IRSDIPAPRIIRISDRNYGEEGSAYSLLYPTIFARKGVFERDFKTRSKEEIAEILCNIGVKLSDEEFE
 NVWNLASKKHHRGEVCVENIRNVLDLRLHADRIKCKTLM

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_144715

ORF Size: 2007 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.

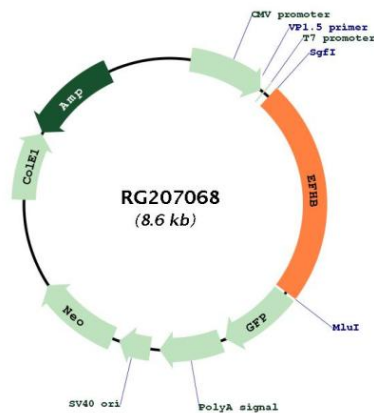
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_144715.2](#), [NP_653316.2](#)

RefSeq Size: 2857 bp

RefSeq ORF:	2502 bp
Locus ID:	151651
UniProt ID:	Q8N7U6
Cytogenetics:	3p24.3
Gene Summary:	Cytosolic sensor for calcium, modulates the interaction of STIM1 and ORAI1 upon store depletion, the activation of store-operated Ca^{2+} entry (SOCE) and NFAT translocation from cytosol to nucleus.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG207068