

## Product datasheet for **RG201886**

### Ephrin B1 (EFNB1) (NM\_004429) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ephrin B1 (EFNB1) (NM_004429) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ephrin B1
Synonyms:	CFND; CFNS; EFB1; EFL3; Elk-L; EPLG2; LERK2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201886 representing NM_004429 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTCGGCCTGGGCAGCGTTGGCTCGGCAAGTGGCTTGTGGCGATGGTCGTGTGGCGCTGTGCCGGC  
TCGCCACACCGCTGGCCAAGAACCTGGAGCCCGTATCCTGGAGCTCCCTCAACCCCAAGTTCCTGAGTGG  
GAAGGGCTTGGTATCTATCCGAAAATTGGAGACAAGCTGGACATCATCTGCCCCGAGCAGAAGCAGGG  
CGGCCCTATGAGTACTACAAGCTGTACCTGGTGGCCCTGAGCAGGCAGCTGCCTGTAGCACAGTTCCTCG  
ACCCCAACGTGTTGGTCACCTGCAATAGGCCAGAGCAGGAAATACGCTTTACCATCAAGTCCAGGAGTT  
CAGCCCCAACTACATGGGCCTGGAGTTCAGAAGCACCATGATTACTACATTACCTCAACATCCAATGGA  
AGCCTGGAGGGGCTGGAAAACCGGGAGGGCGGTGTGTGCCGCACACGCACCATGAAGATCATCATGAAGG  
TTGGGCAAGATCCCAATGCTGTGACGCCTGAGCAGCTGACTACCAGCAGGCCCAGCAAGGAGGCAGACAA  
CACTGTCAAGATGGCCACACAGGCCCTGGTAGTCGGGGCTCCCTGGGTGACTCTGATGGCAAGCATGAG  
ACTGTGAACCAGGAAGAGAAGAGTGGCCAGGTGCAAGTGGGGCAGCAGCGGGGACCCTGATGGCTTCT  
TCAACTCCAAGGTGGCATTGTTTCGGGCTGTCCGTGCCGTTGCGTCATCTTCTGCTCATCATCATCTT  
CCTGACGGTCTACTACTGAAGTACGCAAGCGGCACCGCAAGCACACAGCAGCGGGCGGCTGCCCTC  
TCGCTCAGTACCCTGGCCAGTCCAAGGGGGCAGTGGCACAGCGGGCACCAGCCAGCGACATCATCA  
TTCCCTTACGGACTACAGAGAACAATACTGCCCCACTATGAGAAGGTGAGTGGGGACTACGGGCCACC  
TGCTACATCGTCCAAGAGATGCCGCCAGAGCCCGGCAACATCTACTACAAGGTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG201886 representing NM\_004429  
Red=Cloning site Green=Tags(s)

MARPGQRWL GKVLVAMVVWALCRLATPLAKNLEPVSWSSLNPKFLSGKGLVIYPKIGDKLDIICPRAEAG  
 RPYEYYKLYLVRPEQAAACSTVLDPNVLVTCNRPEQEIRFTIKFQEFSPNYMGLEFKKHHDDYYITSTNSG  
 SLEGLENREGGVCRTTRMKIIMKVGQDPNAVTPPEQLTTSRPSKEADNTVKMATQAPGSRGSLGSDSGKHE  
 TVNQEEKSGPGASGGSSGDPDGFNFNSKVALFAAVGAGCVIFLLIIIFLTVLLKLRKRHRKHTQQRRAAL  
 SLSTLASPKGGSGTAGTEPSDIIIPLRRTENNYCPHYEKVSGDYGHPVYIVQEMPPQSPANIYYKV

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_004429

**ORF Size:** 1038 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\\_004429.5](#)

**RefSeq Size:** 3346 bp

**RefSeq ORF:** 1041 bp

**Locus ID:** 1947

**UniProt ID:** [P98172](#)

**Cytogenetics:** Xq13.1

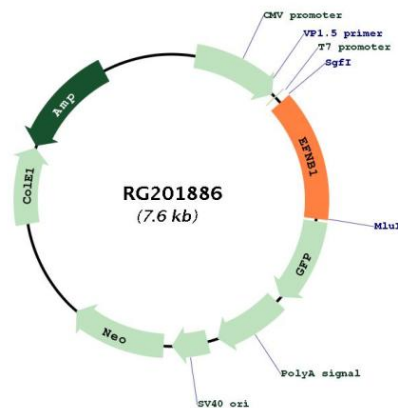
**Domains:** Ephrin

**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** Axon guidance

**Gene Summary:** The protein encoded by this gene is a type I membrane protein and a ligand of Eph-related receptor tyrosine kinases. It may play a role in cell adhesion and function in the development or maintenance of the nervous system. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RG201886