

Product datasheet for **MR205205**

Efnb1 (NM_010110) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Efnb1 (NM_010110) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Efnb1
Synonyms:	Cek5-; Cek5-L; EFL-; EFL-3; Elk; Elk-L; Ep; Epl; Epl2; Eplg2; Ler; LERK; LERK-2; Lerk2; St; Stra1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205205 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCCCGCTGGGCAGCGTTGGCTCAGCAAGTGGCTTGTGGCTATGGTCGTGCTGACGCTGTGCCGGC
TTGCCACGCCGTTGGCCAAGAACCTGGAGCCCGTGTCTGGAGCTCTCTAACCCTAAGTTCCTAAGTGG
GAAGGGCTTGGTATCTACCCGAAGATTGGAGACAAGCTGGACATCATCTGCCCCGAGCAGAAGCAGGG
CGGCCCTACGAGTACTACAAGCTGTACCTGGTGGCCAGAGCAGGCGGCTGCTGCAGCACTGTGCTTG
ATCCCAATGTACTGGTCACTTGAACAAGCCACACCAGGAAATCCGCTTACCATCAAGTCCAAGAGTT
CAGCCCCAACTACATGGGCCTGGAATTCAAAAAGTACCACGATTACTACATTACATCAACGTCCAATGGG
AGCTTGGAGGGACTGGAGAACCAGGGAGGGAGGTGTGTGTCGCACCCGCACTATGAAGATCGTTATGAAGG
TTGGGCAAGATCCAAATGCTGTGACACCCGAGCAGTTGACTACCAGCCGCAAGCAAGGAGTCAGACAA
CACTGTCAAGACAGCCACACAGGCTCCTGGTCGGGGATCCAGGGTACTCTGACGGCAAGCATGAGACT
GTGAACCAGGAAGAGAAGAGTGGCCAGGTGCAGGTGGCGGTGGCAGCGGGGACTCTGACAGCTTCTTCA
ACTCAAGGTAGCATTGTTTCGACGCCGTCGGCGCCGGCTGTGTCTTCTGCTCATCATCTTCTT
GACAGTCTACTACTCAAGCTCCGCAAGCGCCATCGCAAGCATAACAGCAGCGGGCGGCTGCCCTCTCG
CTCAGTACCCTAGCCAGCCCCAAAGGGGTAGTGGTACAGCGGGCACCGAGCCAGCCAGCATCATCTCC
CCTTACGGACTACAGAGAACAACACTACTGCCCCACTATGAGAAGGTGAGTGGGGACTACGGGCATCTGT
CTACATCGTCCAGGAGATGCCCCCTCAGAGCCCGCAACATCTACTACAAGTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205205 protein sequence
Red=Cloning site Green=Tags(s)

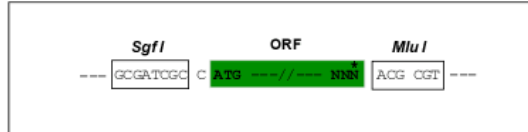
MARPGQRWLSKWL VAMVVL T L C R L A T P L A K N L E P V S W S S L N P K F L S G K L V I Y P K I G D K L D I I C P R A E A G
 R P Y E Y Y K L Y L V R P E Q A A A C S T V L D P N V L V T C N K P H Q E I R F T I K F Q E F S P N Y M G L E F K K Y H D Y Y I T S T S N G
 S L E G L E N R E G G V C R T R T M K I V M K V G Q D P N A V T P E Q L T T S R P S K E S D N T V K T A T Q A P G R G S Q G D S D G K H E T
 V N Q E E K S G P G A G G G S G D S D S F F N S K V A L F A A V G A G C V I F L L I I I F L T V L L L K L R K R H R K H T Q Q R A A A L S
 L S T L A S P K G S G T A G T E P S D I I I P L R T T E N N Y C P H Y E K V S G D Y G H P V Y I V Q E M P P Q S P A N I Y Y K V

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_010110

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_010110.5](#)

RefSeq Size: 3258 bp

RefSeq ORF: 1038 bp

Locus ID: 13641

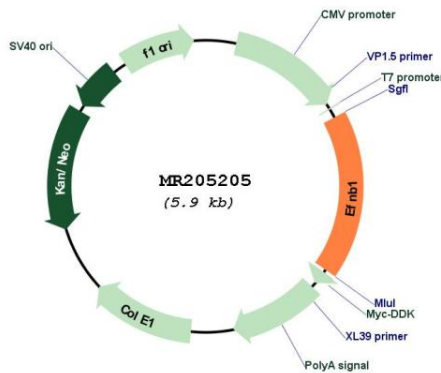
UniProt ID: [P52795](#)

Cytogenetics: X 43.22 cM

MW: 37.9 kDa

Gene Summary: This gene encodes a membrane protein that acts as a ligand for Eph family receptors. Signalling occurs bidirectionally in both the cell containing the receptor and the cell expressing this protein. Activity of this protein is important in neuronal axon growth and other developmental processes. [provided by RefSeq, May 2015]

Product images:



Circular map for MR205205