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Product datasheet for MR205095

Efnb3 (NM_007911) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Efnb3 (NM_007911) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Efnb3
Synonyms:	EFL-6; ELF-3; Elk-L3; Epl8; LERK-8; NLERK-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR205095 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGGCCCCCCCATTTTGGGCCAGGGGGTGTGCAAGTCGGGGCCCTGCTGCTGTTAGGTTTTGCGGGGC
TGGTATCTGGACTCAGCCTGGAGCCTGTCTACTGGAACTCGGCGAATAAGAGGTTCCAGGCAGAGGGCGG
TTACGTGCTTTATCCTCAGATCGGGGACCGGCTAGATCTACTTTGTCCCCGGGCTCGGCCTCCTGGCCCC
CACTCCTCTCCTAGTTATGAGTTCTACAAACTGTACCTGGTAGAGGGTGCCCAGGGTCGGCGTTGTGAGG
CACCCCCTGCCCCAAACCTTCTTCTCACATGTGACCGGCCAGACCTGGACCTCCGCTTCACCATCAAGTT
CCAGGAATACAGCCCTAACCTCTGGGGCCACGAGTTCCGATCCCACCACGATTACTACATAATTGCCACA
TCAGACGGGACCCGGGAAGGCCTTGAGAGCTTGCAAGGAGGCGTGTGCCTAACCAGAGGCATGAAGGTGC
TTCTGCGAGTGGGACAAAGTCCCCGAGGAGGAGCTGTACCCCGAAAACCTGTGTCTGAAATGCCCATGGA
GAGAGACAGAGGGGCAGCTCACAGCGCGGAACCTGGGAGGGACACCATACCAGGTGACCCCAGCAGCAAT
GCAACCTCCCGGGGTGCTGAAGGCCCCCTGCCCCCTCCCAGCATGCCCGCAGTGGCTGGGGCAGCAGGGG
GGATGGCGCTGCTCTTGCTGGGCGTGGCAGGGGCTGGGGGTGCCATGTGTTGGCGGAGACGGCGGGCCAA
GCCTTCGGAGAGTCGCCACCCTGGTCCTGGCTCCTTTGGGAGGGGAGGGTCTCTGGGCCTGGGTGGTGGA
GGAGGGATGGGGCCTCGGGAAGCTGAGCCTGGGGAGCTAGGAATAGCCCTGCGGGGTGGTGGGACTGCAG
ACCCCCCCTTCTGCCCTCACTACGAGAAGGTGAGCGGTGACTATGGGCACCCTGTGTACATTGTGCAGGA
TGGGCCCCCCCAGAGCCCTCCGAACATCTATTACAAGGTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

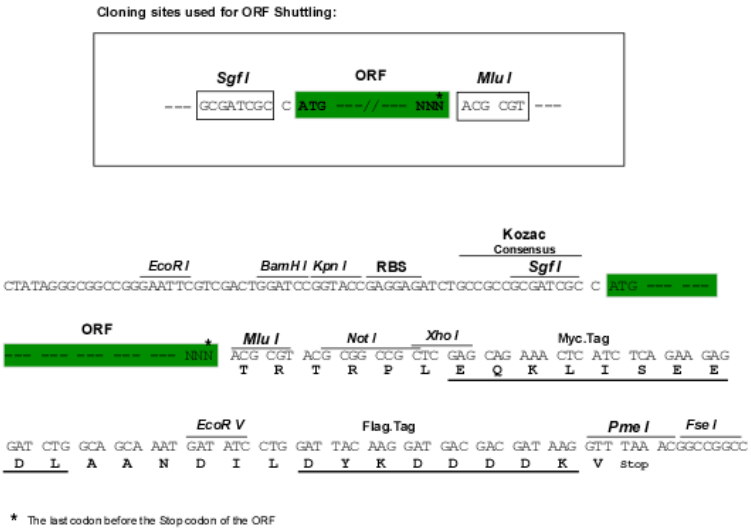
>MR205095 protein sequence
Red=Cloning site Green=Tags(s)

MGAPHFGPGGVQVGALLLLGFAGLVSGLSLEPVYWNSANKRFQAEGGYVLYPQIGDRLDLLCPRARPPGP
HSSPSYEFYKLYLVEGAQGRRCEAPPAPNLLLTCDRPDLDLRFTIKFQEYSPNLWGHEFRSHHDYYIIAT
SDGTREGLESLQGGVCLTRGMKVLLRVGQSPRGGAVPRKPVSEMPMERDRGAAHSAEPGRDTIPGDPSSN
ATSRGAEGPLPPPSMPAVAGAAGGMALLLLGVAGAGGAMCWRRRRAKPSESRHPGPGSFGRGGSLGLGGG
GGMGPREAEPGELGIALRGGGTADPPFCPHYEKVSGDYGHPVYIVQDGPPQSPPNIYYKV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_007911

ORF Size: 1023 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_007911.5

RefSeq Size: 3231 bp

RefSeq ORF: 1023 bp

Locus ID: 13643

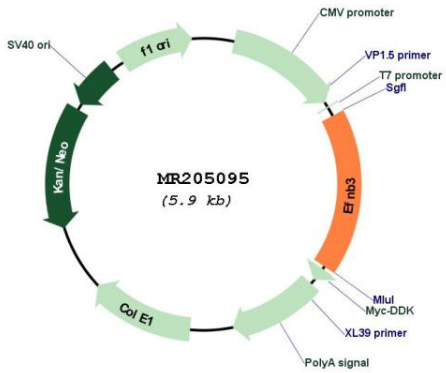
UniProt ID: O35393

Cytogenetics: 11 42.8 cM

MW: 35.9 kDa

Gene Summary: Cell surface transmembrane ligand for Eph receptors, a family of receptor tyrosine kinases which are crucial for migration, repulsion and adhesion during neuronal, vascular and epithelial development. Binds promiscuously Eph receptors residing on adjacent cells, leading to contact-dependent bidirectional signaling into neighboring cells. The signaling pathway downstream of the receptor is referred to as forward signaling while the signaling pathway downstream of the ephrin ligand is referred to as reverse signaling. May play a pivotal role in forebrain function. Binds to, and induce the collapse of, commissural axons/growth cones in vitro. May play a role in constraining the orientation of longitudinally projecting axons. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205095