

Product datasheet for MC206077

Efnb2 (BC057009) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Efnb2 (BC057009) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Efnb2
Synonyms:	ELF-2, Htk-L, LERK-5, NLERK-1, Eplg5, Lerk5
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>BC057009
 CTGCGCTCCAGGACATGGAACCGCGCCGACGCGGCGCTCGCTTGCCCGGGCCACTGCCCGCTGTCTCTGGA
 TCTATAGTCAGGGGCCCCCTCTCGGGGAGCAGCACCCGCGCCTCACACCGACTCGTCTCTCCGCTGCGG
 GCCTTTGTCCCGGCCAGTGCCCTCGCCGCGCCCGCCCTCCGCGGCTGGCCCGGACCCTGGAGCCGCAC
 GGGAGCCGACTGTCCAGCTGCGTCCGGCGCAGCGCCCGGAGCCCGAGTCCGCGAGCCGCGCCGCCCC
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 AGCAGCATCTTAGGAGAAGTTGCGCACCAGGCCGGCCCTGCCTCCACGTTTCTGCCGTGCACACTGG



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ACTTATCACTTGGACCTCGGGTTCAGTAAGGTTTTCAAAGATCTCTAGTGTTTAGTCCTCACTCACTCAC
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GTGAAGACGCTGTAATAGGTTCCAGATCTTACCGTCTATGGATTCCGGGTGTACAGTAGCCTTATTCACC
TTTTTAATAAAAAATACACATGAAAACGAAAAAAAAAAAAAAAAAAAAA
    
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- Restriction Sites:** Ascl-NotI
- ACCN:** BC057009
- Insert Size:** 1011 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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: [BC057009](#), [AAH57009](#)

RefSeq Size: 4176 bp

RefSeq ORF: 1011 bp

Locus ID: 13642

Cytogenetics: 8 3.42 cM

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. Binds to receptor tyrosine kinase including EPHA4, EPHA3 and EPHB4. Together with EPHB4 plays a central role in heart morphogenesis and angiogenesis through regulation of cell adhesion and cell migration. EPHB4-mediated forward signaling controls cellular repulsion and segregation from EFNB2-expressing cells. May play a role in constraining the orientation of longitudinally projecting axons.[UniProtKB/Swiss-Prot Function]