

Product datasheet for RC207228

Ephrin B3 (EFNB3) (NM_001406) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ephrin B3 (EFNB3) (NM_001406) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ephrin B3
Synonyms:	EFL6; EPLG8; LERK8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC207228 representing NM_001406 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGCCCCCATTCTGGGCCGGGGCGTGCAGTCGGGGCCCTGCTGCTGCTGGGGTTTTGGGGC
TGGTGTCTGGGCTCAGCCTGGAGCCTGTCTACTGGAACCTCGGCAATAAGAGTTCCAGGCAGAGGGTGG
TTATGTGCTGTACCCTCAGATCGGGACC GGCTAGACCTGCTCTGCCCGGGCCCGCCTCCTGGCCCT
CACTCCTCTCCTAATTATGAGTTCTACAAGCTGTACCTGGTAGGGGTGCTCAGGGCCGGCGCTGTGAGG
CACCCCTGCCCAAACCTCCTTCTCACTTGTGATCGCCAGACCTGGATCTCCGCTTACCATCAAGTT
CCAGGAGTATAGCCCTAATCTCTGGGGCCACGAGTTCCGCTCGCACACGATTACTACATCATTGCCACA
TCGGATGGGACCCGGGAGGGCCTGGAGAGCCTGCAGGGAGGTGTGTGCCTAACCGAGGCATGAAGGTGC
TTCTCCGAGTGGGACAAAGTCCCGAGGAGGGGCTGTCCCCGAAAACCTGTGTCTGAAATGCCCATGGA
AAGAGACCGAGGGGCAGCCACAGCCTGGAGCCTGGGAAGGAGAACCTGCCAGGTGACCCACCAGCAAT
GCAACCTCCCGGGGTGCTGAAGGCCCTGCCCTCCAGCATGCCTGCAGTGGCTGGGCAGCAGGGG
GGCTGGCGCTGCTTGTCTGGGCGTGGCAGGGGCTGGGGTGCCATGTGTGGCGGAGACGGCGGGCCAA
GCCTTCGGAGAGTCGCCACCCTGGTCTGGCTCCTTCGGGAGGGGAGGGTCTCTGGGCTGGGGGTGGA
GGTGGATGGGACCTCGGGAGGCTGAGCCTGGGAGCTAGGATAGCTCTGCGGGTGGCGGGGCTGCAG
ATCCCCCTTCTGCCCACTATGAGAAGGTGAGTGGTGAATATGGGCATCCTGTGTATATCGTGCAGGA
TGGCCCCCAGAGCCCTCAAACATCTACTACAAGGTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC207228 representing NM_001406
Red=Cloning site Green=Tags(s)

MGPPHSGPGGVRVVGALLLLGVLGLVSGLSLEPVYWNSANKRFQAEGGYVLYPQIGDRLDLLCPRARPPGP
HSSPNYEFYKLYLVGGAQRRCEAPPAPNLLLTCDRPDLDRFTIKFQEYSPNLWGHEFRSHHDYIIAT
SDGTREGLQGGVCLTRGMKVLRLVQSPRGGAVPRKPVSEMPMERDRGAHSLPEPKENLPGDPTSN
ATSRGAEGPLPPSPMPAVAGAAGGLALLLLGVAGAGGAMCWRRRRAKRPSESRRHPGPGSFGRGSLGLGGG
GGMGPREAEPGELGIALRGGGAADPPFCPHYEKVSGDYGHPVYIVQDGGPPQSPNNIYYKV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1651_e12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001406

ORF Size: 1020 bp

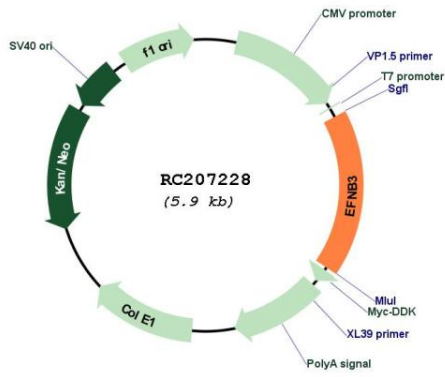
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<ol style="list-style-type: none">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_001406.4
RefSeq Size:	3236 bp
RefSeq ORF:	1023 bp
Locus ID:	1949
UniProt ID:	Q15768
Cytogenetics:	17p13.1
Domains:	Ephrin
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Axon guidance
MW:	35.83 kDa
Gene Summary:	<p>EFNB3, a member of the ephrin gene family, is important in brain development as well as in its maintenance. Moreover, since levels of EFNB3 expression were particularly high in several forebrain subregions compared to other brain subregions, it may play a pivotal role in forebrain function. The EPH and EPH-related receptors comprise the largest subfamily of receptor protein-tyrosine kinases and have been implicated in mediating developmental events, particularly in the nervous system. EPH Receptors typically have a single kinase domain and an extracellular region containing a Cys-rich domain and 2 fibronectin type III repeats. The ephrin ligands and receptors have been named by the Eph Nomenclature Committee (1997). Based on their structures and sequence relationships, ephrins are divided into the ephrin-A (EFNA) class, which are anchored to the membrane by a glycosylphosphatidylinositol linkage, and the ephrin-B (EFNB) class, which are transmembrane proteins. The Eph family of receptors are similarly divided into 2 groups based on the similarity of their extracellular domain sequences and their affinities for binding ephrin-A and ephrin-B ligands. [provided by RefSeq, Jul 2008]</p>

Product images:



Circular map for RC207228