

Product datasheet for **MC200310**

Efna1 (NM_010107) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Efna1 (NM_010107) Mouse Untagged Clone
Tag: Tag Free
Symbol: Efna1
Synonyms: AI325262; B61; Efl1; Epl1; Eplg1; Lerk1
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC002046 sequence for NM_010107
GGAGAAGCCTGTGGGAACCTTACACTGCAGAGCTCTCGTCTGGCCTGGCTCGGCCCGGCCCGCGCTAT
GGAGTTCCCTTTGGGCCCTCTCTTGGGTCTGTGCTGCAGTCTGGCCGCTGCTGACCGCCACATCGTCTTC
TGGAACAGTTCAAATCCCAAGTTCCGTGAGGAGGACTACACGGTGCACGTGCAGCTGAATGACTACCTAG
ACATCATCTGCCACATTACGAGGACGACTCTGTGGCAGATGCAGCCATGGAGCGATACACTGTACAT
GGTGGAAACACCAGGAGTATGTGGCATGCCAACCCAGTCCAAGGACCAGGTCCGTTGGAATTGCAACCGG
CCCAGTGCCAAGCATGGCCCGGAGAAGCTGTCTGAGAAATTCAGCGCTTCACGCCTTTTATCTTGGGCA
AGGAGTTCAAGGAAGGACACAGCTACTACTACATCTCCAAACCTATCTACCATCAGGAATCCAGTGCTT
GAAGCTGAAGGTGACTGTCAATGGCAAATCACTATAATCCCCAGGCCATGTCAACCCACAGGAGAAG
AGACTCCAAGCAGATGACCCGGAAGTACAGTTTTGCACAGCATTGGTTACAGTGCCGCCCCCGCCTCT
TCCCAGTGGTCTGGGCAGTATTGCTCCTACCAGTCTGCTGCTGCAATCTCAGTGAGGGTGTACGCTTGC
CCTGGCTTATGGATTGGAATGGGACTAAGGGGAGCCCGAGCCCTGGGAACCTCTCCCAGTACACCCACA
AGACGCCACCATGAAGCCTCAAAAGGTTTCAAGTATTAAGGGTTTTAACCGAAAAGAGTTTAAACAGCCAA
CTGTGCCATCCCTGCCTCCACTTCAGAGGGATGGAGAAAGAAGTGGAGAAGGTCTTAACCTGCAGTTTC
TGCCTTTAAGCCAAAGAAACAAGCTGTGCGGACCTGGCCATTAAGAGGCCTCAGTGGGAGAAGGGCTAA
AAAGAGCCTGAGGTGATGCGGTTGGACACTGAACCTGGTAAAGACGTCCTTCCCCAAGGAAGCCATAATG
TGCAGATGAAGTACCGAAGGAAAAGCTTGAGACAGCTTCTGCGGGGAGCCAGGTACAGAAGAGGCAG
CTTGGGCTGACCCAGCATCTCTGCAAGATTTCCACCTGCTGGGCTGCCAGAGAGGTTTGTAGCCCCGCC
TGACTGCATCCTCCCCATCCCTGGGGCAACATTCCTGGAGCTGTGCCAACAGGAGGACTGAAGCAGCT
GGTTTTAGAGTGTAGCTGTAAGGGCAGTGCCCGTGTACAGTCTGTGGAGTTTGTAGCTTAAACGGGAGGG
CCCACATGTACAGTGTCTGTATATAAATGTGCTGTATCTGTTTCTATGACTGCAGGTTTTTTTTAT
ACAGTGTTTTTGGATTCAATAAATTGATGGTTTTTTATGGAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI
ACCN: NM_010107
Insert Size: 618 bp



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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:	<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:	<u>BC002046</u> , <u>AAH02046</u>
RefSeq Size:	1466 bp
RefSeq ORF:	618 bp
Locus ID:	13636
UniProt ID:	<u>P52793</u>
Cytogenetics:	3 39.04 cM
Gene Summary:	<p>Cell surface GPI-bound 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. Plays an important role in angiogenesis and tumor neovascularization. The recruitment of VAV2, VAV3 and PI3-kinase p85 subunit by phosphorylated EPHA2 is critical for EFNA1-induced RAC1 GTPase activation and vascular endothelial cell migration and assembly. Exerts anti-oncogenic effects in tumor cells through activation and down-regulation of EPHA2. Activates EPHA2 by inducing tyrosine phosphorylation which leads to its internalization and degradation. Acts as a negative regulator in the tumorigenesis of gliomas by down-regulating EPHA2 and FAK. Can evoke collapse of embryonic neuronal growth cone and regulates dendritic spine morphogenesis. [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>