

Product datasheet for MR202249

Efna2 (NM_007909) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Efna2 (NM_007909) Mouse Tagged ORF Clone

Tag: Myc-DDK

Symbol: Efna2

Synonyms: CEK7L; Elf1; Epl6; Eplg6; Lerk6

Mammalian Cell

Selection:

Neomycin

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >MR202249 representing NM_007909

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR202249 representing NM_007909

Red=Cloning site Green=Tags(s)

MAPAQRPLLPLLLLLPLRARNEDPARANADRYAVYWNRSNPRFQVSAVGDGGGYTVEVSINDYLDIYCP HYGAPLPPAERMERYILYMVNGEGHASCDHRQRGFKRWECNRPAAPGGPLKFSEKFQLFTPFSLGFEFRP GHEYYYISATPPNLVDRPCLRLKVYVRPTNETLYEAPEPIFTSNSSCSGLGGCHLFLTTVPVLWSLLGS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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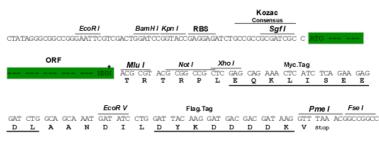
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Chromatograms: https://cdn.origene.com/chromatograms/mm9088 g06.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_007909

ORF Size: 627 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: <u>NM 007909.3, NP 031935.3</u>

RefSeq Size: 2153 bp RefSeq ORF: 630 bp Locus ID: 13637



UniProt ID: P52801

Cytogenetics: 10 39.72 cM MW: 23.6 kDa

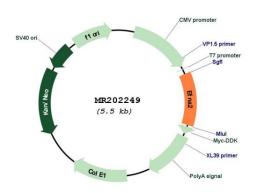
Gene Summary: Cell surface GPI-bound ligand for Eph receptors, a family of receptor tyrosine kinases which

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. 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. With the EPHA2 receptor

may play a role in bone remodeling through regulation of osteoclastogenesis and

osteoblastogenesis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR202249