

Product datasheet for **MR226276**

Efna4 (NM_007910) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Efna4 (NM_007910) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Efna4
Synonyms: EFL-4; Epl4; LERK-4
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR226276 representing NM_007910
Red=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGGCTGCTGCCCTGCTGCGGACTGTGCTCTGGGCCGCGCTGCTCGGCTCGCGCTGCCGGGTGCT
CCAGCCTCCGCCACCAATCTACTGGAACCTCTAACCCAGGTTGCTCCGAGGAGATGCCGTGGTGA
GCTGGGCTTCAACGATTACCTAGACATCTTCTGCCACATTATGAAAGCCAGGGCCCCAGAAGGCCCG
GAAACCTTTGCATTATACATGGTGGACTGGTCAAGCTACGAGGCCTGCACGGCAGAGGGGGCAAATGCCT
TCCAGCGCTGGAATTGCTCGATGCCTTTTGCCCTTTTCAGCCCTGTTTCGATTCTCAGAAAAGATTACGCG
CTACACACCTTCCCGCTGGGCTTTGAGTTCTTGCCTGGAGAGACTTACTACTACATCTCGGTGCCGACT
CCGGAGAGTCTTGGCCGGTGCCTGAGACTCCAGGTGTCTGTCTGCTGCAAGGAGAGCGGGTCATCACATG
AGTCAGCTCATCTGTTGGGAGTCTGGAGAAAGCGGTACGTCCGGGTGGCGGGGAGGACACGCGCCAG
CCCCCTGTGTCTTGTGCTGTGCTGCTCCCAATCCTCCGTCTCTGAGAGTTCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR226276 representing NM_007910
Red=Cloning site **Green**=Tags(s)

MRLLPLLRTVLWAALLGSRLPGCSSLRHPIYWNSSNPRLLRGDAVVELGFNDYLDIFCPHYESPGPPEGP
ETFALYMVDWSGYEACTAEGANAFQRWNCMPFAPFSPVRFSEKIQRYPFPLGFEFLPGETYYYYISVPT
PESPGRCLRLQSVCKESGSSHESAHPVGSPGESGTSWVRGGHAPSPLCLLLLLLPIRLRLVL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

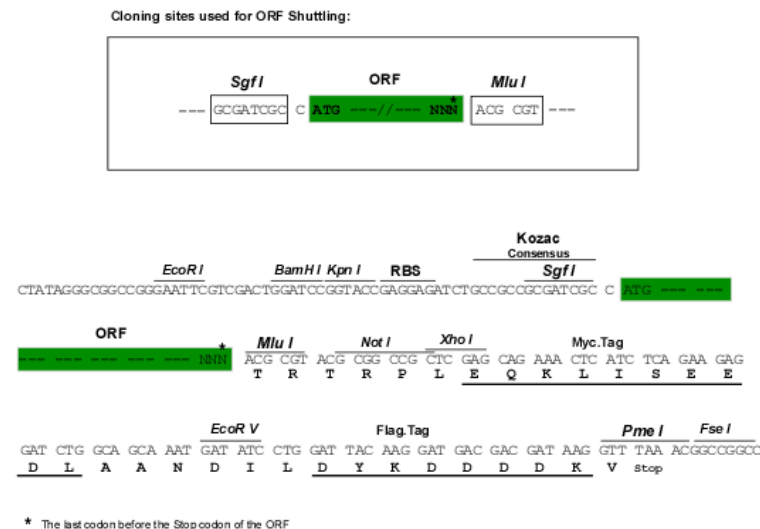


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Chromatograms: https://cdn.origene.com/chromatograms/mm9008_b06.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM 007910

ORF Size: 618 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_007910.2](#), [NP_031936.2](#)

RefSeq Size: 1596 bp

RefSeq ORF: 621 bp

Locus ID: 13639

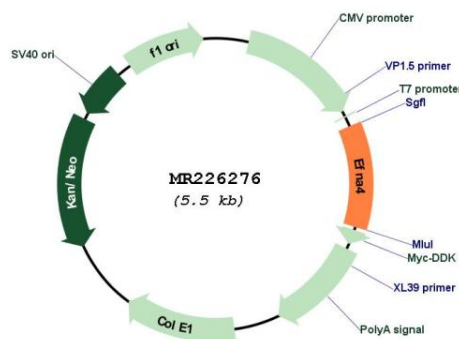
UniProt ID: [O08542](#)

Cytogenetics: 3 39.07 cM

MW: 23.3 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. May play a role in the interaction between activated B-lymphocytes and dendritic cells in tonsils (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR226276