

Product datasheet for **MR202737**

Efna5 (NM_207654) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Efna5 (NM_207654) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Efna5
Synonyms:	AL-1; AV158822; EFL-5; Ephrin-A5; Epl7; LERK-7; RAGS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR202737 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTGCACGTGGAGATGTTGACGCTGCTCTTTCTGGTCTGGATGTGTGTTCAGCCAGGACCCGG
GCTCCAAAGTCGTCGCCGACCGCTACGCCGCTACTGGAACAGCAGCAACCCAGATTCCAGAGGGTGA
CTACCACATTGATGTCTGTATCAATGACTACCTGGATGTTTTCTGCCCTCACTATGAGGACTCTGTCCA
GAAGACAAGACTGAGCGCTACGTCCTGTACATGGTGAATTTTGATGGGTACAGTGCCTGCGACCACGT
CCAAAGGGTTCAAGAGATGGGAATGTAACCGCCCTCACTCCCAACGGACCGCTGAAGTTCTCGAAAA
ATTCCAGCTCTTCACTCCCTTTCTTTAGGATTTGAATTCAGGCCAGGCCGAGAGATTTTCTACATCTCC
TCTGCAATCCCAGACAACGGAAGAAGGTCTGTCTAAAGCTCAAAGTCTTTGTGAGACCAACAAATAGCT
GTATGAAAATATAGGTGTTTCATGATCGTGTTTTCGATGTTAACGACAAAGTAGAAAATTCATTAGAACC
AGCAGATGACACCGTACATGAGTCAGCCGAGCCATCCCGCGGTGAGAACGCGCGCAGACACCAAGGATA
CCCAGCCGCTTTTGGCAATCCTACTGTTCTCTGCGGATGCTTTTGACATTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR202737 protein sequence
 Red=Cloning site Green=Tags(s)

MLHVEMLTLLFLVLWMCVFSQDPGSKVVADRYAVYWSSNPRFQRGDYHIDVCINDYLDVFCPHYEDSVP
 EDKTERYVLYMVNFDGYSACDHTSKGFKRWE CNRPHSPNGPLKFSEKFQLFTPFSLGFEFRPGREYFYIS
 SAIPDNGRRSCLKLVFVRPTNSCMKTI GVHDRVFDVNDKVENSLPADDTVHESAEP SRGENAAQT PRI
 PSRLLA ILLFLLA MLTL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_207654

ORF Size: 687 bp

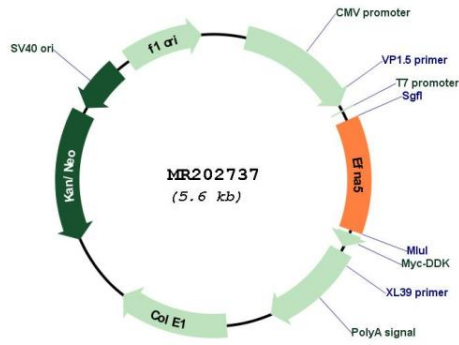
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_207654.2 , NP_997537.1
RefSeq Size:	5259 bp
RefSeq ORF:	687 bp
Locus ID:	13640
UniProt ID:	O08543
Cytogenetics:	17 32.57 cM
MW:	26.3 kDa
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. 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. Induces compartmentalized signaling within a caveolae-like membrane microdomain when bound to the extracellular domain of its cognate receptor. This signaling event requires the activity of the Fyn tyrosine kinase. Activates the EPHA3 receptor to regulate cell-cell adhesion and cytoskeletal organization. With the receptor EPHA2 may regulate lens fiber cells shape and interactions and be important for lens transparency maintenance. May function actively to stimulate axon fasciculation. The interaction of EFNA5 with EPHA5 also mediates communication between pancreatic islet cells to regulate glucose-stimulated insulin secretion. Cognate/functional ligand for EPHA7, their interaction regulates brain development modulating cell-cell adhesion and repulsion.[UniProtKB/Swiss-Prot Function]</p>

Product images:



Circular map for MR202737