

Product datasheet for RC210635

Ephrin A1 (EFNA1) (NM_004428) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ephrin A1 (EFNA1) (NM_004428) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: EFNA1
Synonyms: B61; ECKLG; EFL1; EPLG1; GMAN; LERK-1; LERK1; TNFAIP4
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC210635 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGTTCCTCTGGGCCCTCTCTGGGTCTGTGCTGCAGTCTGGCCGCTGCTGATCGCCACACCGTCT
 TCTGGAACAGTTCAAATCCCAAGTTCGGGAATGAGGACTACACCATACATGTGCAGCTGAATGACTACGT
 GGACATCATCTGCCACTATGAAGATCACTCTGTGGCAGACGCTGCCATGGAGCAGTACATACTGTAC
 CTGGTGGAGCATGAGGAGTACCAGCTGTGCCAGCCCCAGTCCAAGGACCAAGTCCCGTGGCAGTGAAC
 GGCCAGTGCCAAGCATGGCCCGAGAAGCTGTCTGAGAAGTCCAGCGTTACACCTTTCACCCTGGG
 CAAGGAGTTCAAAGAAGGACACAGCTACTACTACATCTCAAACCCATCCACCAGCATGAAGACCGTGC
 TTGAGGTTGAAGGTGACTGTCAAGTGGCAAATCACTCACAGTCCCTCAGGCCCATGACAATCCACAGGAGA
 AGAGACTTGCAGCAGATGACCCAGAGGTGCGGGTCTACATAGCATCGGTACAGTGTGCCCCACGCT
 CTCCCACTTGCCTGGACTGTGCTGCTCCTTCCACTTCTGCTGCTGCAAACCCCG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

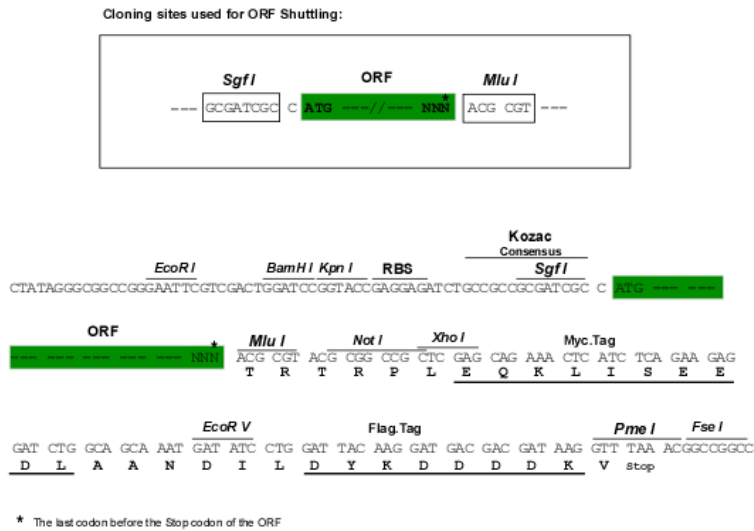
>RC210635 protein sequence
 Red=Cloning site Green=Tags(s)
 MEFLWAPLLGLCCSLAADRHTVFNSSNPKFRNEDYTIHVQLNDYVDIICPHYEDHSVADAAMEQYILY
 LVEHEEYQLCQPQSKDQVRWQCNRPSAKHGPEKLSEKQRFPTPLGKEFKEGHSYYYISKPIHQHEDRC
 LRLKVTVSGKITHSPQAHDNPQEKRLAADDPEVRVLHSHGSAAPRLFPLAWTVLLLPLLLLQTP
TRTRPLEQKLISEEDLAANDILDYKDDDDKV



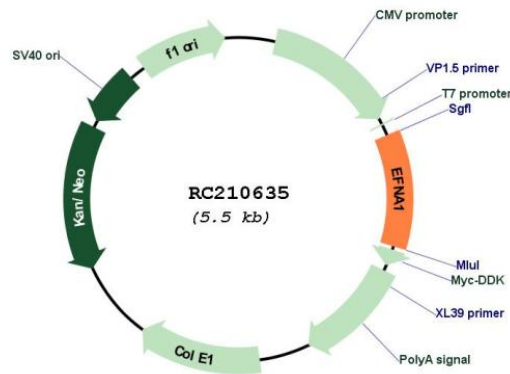
Chromatograms: https://cdn.origene.com/chromatograms/mk6005_e09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:

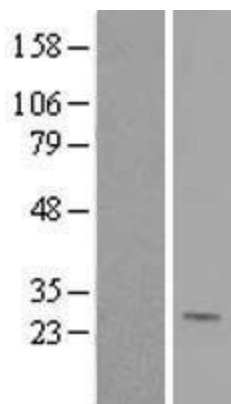


ACCN: NM_004428

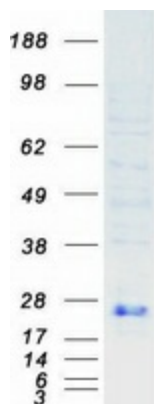
ORF Size: 615 bp

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_004428.3
RefSeq Size:	1590 bp
RefSeq ORF:	618 bp
Locus ID:	1942
UniProt ID:	P20827
Cytogenetics:	1q22
Domains:	Ephrin
Protein Families:	Druggable Genome
Protein Pathways:	Axon guidance
MW:	23.8 kDa
Gene Summary:	<p>This gene encodes a member of the ephrin (EPH) family. The ephrins and EPH-related receptors comprise the largest subfamily of receptor protein-tyrosine kinases and have been implicated in mediating developmental events, especially in the nervous system and in erythropoiesis. 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. This gene encodes an EFNA class ephrin which binds to the EPHA2, EPHA4, EPHA5, EPHA6, and EPHA7 receptors. Two transcript variants that encode different isoforms were identified through sequence analysis. [provided by RefSeq, Jul 2008]</p>

Product images:

Western blot validation of overexpression lysate (Cat# [LY401408]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210635 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified EFNA1 protein (Cat# [TP310635]). The protein was produced from HEK293T cells transfected with EFNA1 cDNA clone (Cat# RC210635) using MegaTran 2.0 (Cat# [TT210002]).