

Product datasheet for RC212122

Ephrin A1 (EFNA1) (NM 182685) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Ephrin A1 (EFNA1) (NM 182685) Human Tagged ORF Clone

Tag: Myc-DDK
Symbol: Ephrin A1

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 >RC212122 representing NM_182685

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGAGTTCCTCTGGGCCCCTCTCTTGGGTCTGCTGCTGCAGTCTGGCCGCTGCTGATCGCCACACCGTCT
TCTGGAACAGTTCAAATCCCAAGTTCCGGAATGAGGACTACACCATACATGTGCAGCTGAATGACTACGT
GGACATCATCTGTCCGCACTATGAAGATCACTCTGTGGCAGACGCTGCCATGGAGCAGTACATACTGTAC
CTGGTGGAGCATGAGGAGTACCAGCTGTGCCAGCCCCAGTCCAAGGACCAAGTCCGCTGGCAGTGCAACC
GGCCCAGTGCCAAGCATGGCCCGGAGAAGCTGTCTGAGAAGTTCCAGCGCTTCACACCTTTCACCCTGGG
CAAGGAGTTCAAAGAAGGACACAGCTACTACTACATCTCTCACAGTCCTCAGGCCCATGTCAATCCACAG
GAGAAGAGACTTGCAGCAGATGACCCAGAGGTGCGGGTTCTACATCGGTCACAGTGCTGCCCCAC
GCCTCTTCCCACTTGCCTGGACTGTGCTGCTCCTTCCACTTCTGCTGCTGCAAACCCCG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC212122 representing NM_182685

Red=Cloning site Green=Tags(s)

MEFLWAPLLGLCCSLAAADRHTVFWNSSNPKFRNEDYTIHVQLNDYVDIICPHYEDHSVADAAMEQYILY LVEHEEYOLCOPOSKDOVRWOCNRPSAKHGPEKLSEKFORFTPFTLGKEFKEGHSYYYISHSPOAHVNPO

EKRLAADDPEVRVLHSIGHSAAPRLFPLAWTVLLLPLLLLQTP

TRTRPLEQKLISEEDLAANDILDYKDDDDK**V**

Chromatograms: https://cdn.origene.com/chromatograms/mk6487 a05.zip



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Restriction Sites:

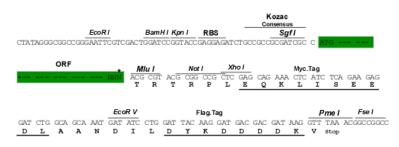
Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shuttling:

Sgf I ORF Miu I

--- GCGATCGC C ATG --- Max ACG CGT ---



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

ACCN: NM_182685

ORF Size: 549 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 182685.1, NP 872626.1</u>

RefSeq Size: 1524 bp
RefSeq ORF: 552 bp
Locus ID: 1942
UniProt ID: P20827



Cytogenetics: 1q22

Protein Families: Druggable Genome

Protein Pathways: Axon guidance

MW: 19.3 kDa

Gene Summary: 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

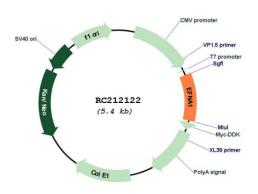
the ephrin-A (EFNA) class, which are anchored to the membrane by a

glycosylphosphatidylinositol linkage, and the ephrin-B (EFNB) class, which are

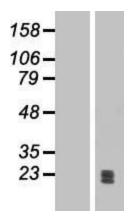
transmembrane proteins. This gene encodes an EFNA class ephrin which binds to the EPHA2, EPHA4, EPHA5, EPHA6, and EPHA7 receptors. Two transcript variants that encode different

isoforms were identified through sequence analysis. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC212122



Western blot validation of overexpression lysate (Cat# [LY405448]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC212122 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).