

Product datasheet for **SC107521**

Ephrin A1 (EFNA1) (NM_182685) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ephrin A1 (EFNA1) (NM_182685) Human Untagged Clone
Tag:	Tag Free
Symbol:	Ephrin A1
Synonyms:	B61; ECKLG; EFL1; EPLG1; GMAN; LERK-1; LERK1; TNFAIP4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC107521 sequence for NM_182685 edited (data generated by NextGen Sequencing) ATGGAGTTCCTCTGGGCCCTCTCTTGGGTCTGTGCTGCAGTCTGGCCGCTGCTGATCGC CACACCGTCTTCTGGAACAGTTCAAATCCCAAGTTCCGGAATGAGGACTACACCATACAT GTGCAGCTGAATGACTACGTGGACATCATCTGTCCGCACTATGAAGATCACTCTGTGGCA GACGCTGCCATGGAGCAGTACATACTGTACCTGGTGGAGCATGAGGAGTACCAGCTGTGC CAGCCCCAGTCCAAGGACCAAGTCCGCTGGCAGTGCAACCGGCCAGTGCCAAGCATGGC CCGGAGAAGCTGTCTGAGAAGTTCAGCGCTTCACACCTTTCACCCTGGGCAAGGAGTTC AAAGAAGGACACAGCTACTACTACATCTCTCACAGTCTCAGGCCATGTCAATCCACAG GAGAAGAGACTTGCAGCAGATGACCCAGAGGTGCGGGTCTACATAGCATCGGTCACAGT GCTGCCCCAGCCTCTTCCCACTTGCTGGACTGTGCTGCTCCTCCACTTCTGCTGCTG CAAACCCCGTGA Clone variation with respect to NM_182685.1 410 a=>t



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_182685 unedited
 NGGTGCAAATATTTGTATACGACTCACTTATAGGGCGGCCGGAATTCGCACGAGGCAGAC
 CCCATAGGAGACCCCGCTCCCGCTCGGCCTGGCCAGGCCCGCGCTATGGAGTTCCTCT
 GGGCCCTCTCTTGGGTCTGTGCTGCAGTCTGGCCGCTGCTGATCGCCACACCGTCTTCT
 GGAACAGTTCAAATCCCAAGTCCGGAATGAGGACTACACCATAACATGTGCAGCTGAATG
 ACTACGTGGACATCATCTGTCCGCACTATGAAGTCACTCTGTGGCAGACGCTGCCATGG
 AGCAGTACATACTGTACCTGGTGGAGCATGAGGAGTACCAGCTGTGCCAGCCCCAGTCCA
 AGGACCAAGTCCCGCTGGCAGTGAACCGGCCAGTGCCAAGCATGGCCCGGAGAAGCTGT
 CTGAGAAGTTCACGCGCTTCCACCTTTTACCCTGNGCAAGGAGTTCAAAGAAGGACACA
 GCTACTACTACATCTCTCACAGTCTCAGGCCATGTCAATCCACAGGAGAAGAGACTTG
 CAGCAGATGACCCAGAGGTGCGGGTTCTACATAGCATCGGTACAGTGTGCCACAGCC
 TCTTCCCACTTGCTGGACTGTGCTGCTCCTTCCACTTCTGTGCTGCAAACCCCGTGA
 GGTGTATGCCACCTGGCCTTANAGAGGGACAGGCTGAAGAGAGGGACAGGCACTCCAN
 ACCTGTCTTGGGCCACTNTCAGAGCCCCAGCCCTGGAACCACTCCCACCACAGGCAT
 AAGCTATCACCTAGCAGCCTCAAACGGGTCAAGTAAAGTTTTTACCAGGAAGGGAGCC
 AACCCAGCCCGAAGTCCATCCCACCTTACCTCGNAGGGATGGAGAAAGAGTGGAGAC
 AGTCCTT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_182685 unedited
 GCGGCCGCAATCTAGAATCGAGTTTTTTTTTTTTTTTTTCCGAAAAACACATTGCTTT
 ATTTTGAGACAAAGAATTGTATAAAAAAACCAGTTGTAGAAATCAGGACAGACACA
 CAGCAACTTATACAGATACTATACAGTGGGCCCTGCCCTTTAGGCTACACTTAGGC
 AGAATGTACACATGGGCACTGCCCTTACAGCTACACTCTAAGAACAGGTTGGCACAGCC
 CCCTGCTGGCACAGCTCTGGGGAGTGTGCCCCAGGATGGGAGAGAATGCAGTACCTGGC
 TACAAACTTCTCTGTGGCAGCTCCACAGATGAGGTCTTGTGGGAGATGTGGGTGAGCC
 CAAGCATGCTGCCTCTCCTGTACCTGGCTTCCAAGCAAGAACTGTTTCTTGCTTTTCT
 TCAGTCAGTTCATCTGGGCATCCTGGCTCTCCTGGAGGGGCATCTTTGACAAGCTTT
 GCCCATCCACGTGGCCCTTCCAGCTCAGCTCCCACTGTGCCTAAGGGACCATGCCTGC
 ACAGCTTGTCTTTGGCTTAAAGGCAGGAATGGTGGGAAAGGACTGTCTCCACTCTTT
 CTCCATCCCTCCGAGGTGAAGGTGGNGATGGCACTGTGGGCTGGTTGGCCTCCTCCGG
 TTGAAAACCTTAATACTGACCCGTTNTGAGGCTGCTAGGTGATAGCTTATGCCTGTGGG
 GGAGTGGTCCCAGGCTGGGCTCTGAAAGTGCCCCAGACAAGTTTGGAGTGCCTGTCCC
 TCTCTCAGCCTGTCCCTTATAGCCAGGGTGGGATACACCTTACGGGGNTTGCAGCAC
 CAAAAGTGGGAAGGGCACCACAGTCCANGCAAGGGGAAAAAGCGTGGGCAACCCTGGGAC
 CGATGCTATGAAAACCGCACCTTTGGTCATCTGTGCAAGCCCTCCTTCTGGGGATGGCT
 GA

Restriction Sites:

NotI-NotI

ACCN:

NM_182685

Insert Size:

1500 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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: [NM_182685.1](#), [NP_872626.1](#)

RefSeq Size: 1524 bp

RefSeq ORF: 552 bp

Locus ID: 1942

UniProt ID: [P20827](#)

Cytogenetics: 1q22

Protein Families: Druggable Genome

Protein Pathways: Axon guidance

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]
Transcript Variant: This variant (2) lacks an alternate in-frame segment, compared to variant 1. The resulting protein (isoform b) is shorter when compared to isoform a.