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Product datasheet for SC111624

Ephrin A4 (EFNA4) (NM_005227) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ephrin A4 (EFNA4) (NM_005227) Human Untagged Clone
Tag:	Tag Free
Symbol:	Ephrin A4
Synonyms:	EFL4; EPLG4; LERK4
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_005227, the custom clone sequence may differ by one or more nucleotides

ATGCGGCTGCTGCCCCTGCTGCGGACTGTCCTCTGGGCCGCGTTCCTCGGCTCCCCTCTGCGCGGGGGCT
CCAGCCTCCGCCACGTAGTCTACTGGAACTCCAGTAACCCCAGGTTGCTTCGAGGAGACGCCGTGGTGGA
GCTGGGCCTCAACGATTACCTAGACATTGTCTGCCCCCACTACGAAGGCCCAGGGCCCCCTGAGGGCCCC
GAGACGTTTGCTTTGTACATGGTGGACTGGCCAGGCTATGAGTCCTGCCAGGCAGAGGGCCCCCGGGCCT
ACAAGCGCTGGGTGTGCTCCCTGCCCCTTTGGCCATGTTCAATTCTCAGAGAAGATTCAGCGCTTCACACC
CTTCTCCCTCGGCTTTGAGTTCTTACCTGGAGAGACTTACTACTACATCTCGGTGCCCACTCCAGAGAGT
TCTGGCCAGTGCTTGAGGCTCCAGGTGTCTGTCTGCTGCAAGGAGAGGAAGTCTGAGTCAGCCCATCCTG
TTGGGAGCCCTGGAGAGAGTGGCACATCAGGGTGGCGAGGGGGGGACACTCCCAGCCCCCTCTGTCTCTT
GCTATTACTGCTGCTTCTGATTCTTCGTCTTCTGCGAATTCTGTGA

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5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_005227 unedited
AAAAAAGTTTTCATATTTGTATACGACTCACTATAGGCGGCCGCGAATTCGCACGAGGTG
AAGCGGGCCGGGACCTGCCAGGCCAGACCAAACCGGACCTCGGGGGCGATGCGGCTGCTG
CCCCTGCTGCGGACTGTCCTCTGGGCCGCGTTCCTCGGCTCCCCTCTGCGCGGGGGCTCC
AGCCTCCGCCACGTAGTCTACTGGAACTCCAGTAACCCCAGGTTGCTTCGAGGAGACGCC
GTGGTGGAGCTGGGCCTCAACGATTACCTAGACATTGTCTGCCCCCACTACGAAGGCCCA
GGGCCCCCTGAGGGCCCCGAGACGTTTGCTTTGTACATGGTGGACTGGCCAGGCTATGAG
TCCTGCCAGGCAGAGGGCCCCCGGGCCTACAAGCGCTGGGTGTGCTCCCTGCCCTTTGGC
CATGTTCAATTCTCAGAGAAGATTCAGCGCTTCACACCCTTCTCCCTCGGCTTTGAGTTC
TTACCTGGAGAGACTTACTACTACATCTCGGTGCCCACTCCAGAGAGTTCTGGCCAGTGC
TTGAGGCTCCAGGTGTCTGTCTGCTGCAAGGAGAGGAGAGCCAGAGTCCTCCCAAGATCC
CCTGGAGGAGGAGGGATCCCTGCTGCCTGCACTGGGGGTGCCAATTCAGACCGACAAGAT
GGAGCATTGATGGGGGAGATCAGAGGGTCTGAGGTGACTCTTGCANGAGCCTGTCCNCTC
ATCACAGGCTAAAGAAGAGCAGTANACAGCCCTGGACACTCTGAAGCAGGAGCAAGACAA
ACACAGGCGCCTTTGCAAGCTGCTCTGAGGGTCTCAGCCCATCCCCCAGGAGACTGGGAT
TTGGTATGATCAAATC
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Restriction Sites: NotI-NotI

ACCN: NM_005227

Insert Size: 1350 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_005227.2, NP_005218.1

RefSeq Size: 1276 bp

RefSeq ORF: 606 bp

Locus ID: 1945

UniProt ID: P52798

Cytogenetics: 1q21.3

Domains: Ephrin

Protein Families: Secreted Protein

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. Three transcript variants that encode distinct proteins have been identified. [provided by RefSeq, Jul 2008]
Transcript Variant: This variant (1), also known as ephrin-A4 (m), is the longest transcript and it encodes isoform a. Isoform a is a membrane-bound protein.