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# Product datasheet for SC127873

## Ephrin A2 (EFNA2) (NM_001405) Human Untagged Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | Ephrin A2 (EFNA2) (NM_001405) Human Untagged Clone |
| **Tag:** | Tag Free |
| **Symbol:** | Ephrin A2 |
| **Synonyms:** | ELF-1; EPLG6; HEK7-L; LERK-6; LERK6 |
| **Mammalian Cell Selection:** | None |
| **Vector:** | pCMV6-XL4 |
| **E. coli Selection:** | Ampicillin (100 ug/mL) |

**Fully Sequenced ORF:**

>OriGene ORF within SC127873 sequence for NM_001405 edited (data generated by NextGen Sequencing)

```
ATGGCGCCCGCGCAGCGCCCGCTGCTCCCGCTGCTGCTCCTGCTGTTACCGCTGCCGCCG
CCGCCCTTCGCGCGCGCCGAGGACGCCGCCCGCGCCAACTCGGACCGCTACGCCGTCTAC
TGGAACCGCAGCAACCCCAGGTTCCACGCAGGCGCGGGGGACGACGGCGGGGGCTACACG
GTGGAGGTGAGCATCAATGACTACCTGGACATCTACTGCCCGCACTATGGGGCGCCGCTG
CCGCCGGCCGAGCGCATGGAGCACTACGTGCTGTACATGGTCAACGGCGAGGGCCACGCC
TCCTGCGACCACCGCCAGCGCGGCTTCAAGCGCTGGGAGTGCAACCGGCCCGCGGCGCCC
GGGGGGCCGCTCAAGTTCTCGGAGAAGTTCCAGCTCTTCACGCCCTTCTCCCTGGGCTTC
GAGTTCCGGCCCGGCCACGAGTATTACTACATCTCTGCCACGCCTCCCAATGCTGTGGAC
CGGCCCTGCCTGCGACTGAAGGTGTACGTGCGGCCGACCAACGAGACCCTGTACGAGGCT
CCTGAGCCCATCTTCACCAGCAATAACTCGTGTAGCAGCCCGGGCGGCTGCCGCCTCTTC
CTCAGCACCATCCCCGTGCTCTGGACCCTCCTGGGTTCCTAG

Clone variation with respect to NM_001405.3
```



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**5' Read Nucleotide Sequence:**

```
>OriGene 5' read for NM_001405 unedited
GGCCGCGATATCGAATCTATGGCGCCCGCGCAGCGCCCGCTGCTCCCGCTGCTGCTCCTG
CTGTTACCGCTGCCGCCGCCGCCCTTCGCGCGCGCCGAGGACGCCGCCCGCGCCAACTCG
GACCGCTACGCCGTCTACTGGAACCGCAGCAACCCCAGGTTCCACGCAGGCGCGGGGGAC
GACGGCGGGGGCTACACGGTGGAGGTGAGCATCAATGACTACCTGGACATCTACTGCCCG
CACTATGGGGCGCCGCTGCCGCCGGCCGAGCGCATGGAGCACTACGTGCTGTACATGGTC
AACGGCGAGGGCCACGCCTCCTGCGACCACCGCCAGCGCGGCTTCAAGCGCTGGGAGTGC
AACCGGCCCGCGGCGCCCGGGGGGCCGCTCAAGTTCTCGGAGAAGTTCCAGCTCTTCACG
CCCTTCTCCCTGGGCTTCGAGTTCCGGCCCGGCCACGAGTATTACTACATCTCTGCCACG
CCTCCCAATGCTGTGGACCGGCCCTGCCTGCGACTGAAGGTGTACGTGCGGCCGACCAAC
GAGACCCTGTACGAGGCTCCTGAGCCCATCTTCACCAGCAATAACTCGTGTAGCAGCCAC
GGGCGGCTGCCGCCTCTTCCTCAGCACCATCCCCGTGCTCTGGACCCTCCTGGGTTCCTA
GTCTAGAATTGCGCCGCGGTCATAGCTGTTTCCTGAACAGATCCCGGGTGGCATCCCTGT
GACCCCTCCCAGTGCCTCTCCTGCCCCTGGAAGTGCCACTCCAGTGCCCACCAGCCTTGT
CCTAATAAAATTAAAGTGCATCATTTTGTCTGACTAGGTGTCCTTCTATATATATGGGTG
AGGGGGGGGGGGGGTTTTGGAACAAGGGGCAATTTTGGAAAAAAACTA
```

**Restriction Sites:** Please inquire

**ACCN:** NM_001405

**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_001405.2, NP_001396.2

**RefSeq Size:** 642 bp

**RefSeq ORF:** 642 bp

**Locus ID:** 1943

**UniProt ID:** O43921

**Cytogenetics:** 19p13.3

**Protein Families:** Druggable Genome

**Protein Pathways:** Axon guidance

**Gene Summary:** This gene encodes a member of the ephrin family. The protein is composed of a signal sequence, a receptor-binding region, a spacer region, and a hydrophobic region. The EPH and EPH-related receptors comprise the largest subfamily of receptor protein-tyrosine kinases and have been implicated in mediating developmental events, particularly in the nervous system. 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. Posttranslational modifications determine whether this protein localizes to the nucleus or the cytoplasm. [provided by RefSeq, Jul 2008]