

## Product datasheet for **SC309495**

### Ephrin A4 (EFNA4) (NM\_182690) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ephrin A4 (EFNA4) (NM_182690) Human Untagged Clone
Tag:	Tag Free
Symbol:	Ephrin A4
Synonyms:	EFL4; EPLG4; LERK4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC309495 representing NM_182690. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG  
 GATCCGGTACCGAGGAGATCTGCCGCC**CGCATCGCC**  
 ATGCGGCTGCTGCCCCTGCTGCGGACTGTCTCTGGGCCGCGTTCTCGGCTCCCCTCTGCGCGGGGGC  
 TCCAGCCTCCGCCACGTAGTCTACTGGAAGTCCAGTAACCCAGGTTGCTTCGAGGAGACGCCGTGGTG  
 GAGCTGGGCCTCAACGATTACCTAGACATTGTCTGCCCCACTACGAAGGCCAGGGCCCCCTGAGGGC  
 CCCGAGACGTTTGCTTTGTACATGGTGGACTGGCCAGGCTATGAGTCCTGCCAGGCAGAGGGCCCCCGG  
 GCCTACAAGCGCTGGGTGTGCTCCCTGCCCTTTGGCCATGTTCAATTCTCAGAGAAGATTCAGCGCTTC  
 ACACCTTCTCCCTCGGCTTTGAGTTCTTACCTGGAGAGACTTACTACTACATCTCGGTGCCCACTCCA  
 GAGAGTTCTGGCCAGTGCTTGAGGCTCCAGGTGTCTGTCTGCTGCAAGGAGAGGAACCTTCCTCTCAT  
 CCCAAGGAGCCAGAGTCCCTCCCAAGATCCCTGGAGGAGGAGGGATCCCTGCTGCCTGCACTGGGGGTG  
 CCAATTCAGACCGACAAGATGGAGCAT**TGA**  
**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT  
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:	Sgfl-MluI
ACCN:	NM_182690
Insert Size:	582 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).


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<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_182690.2</a>
<b>RefSeq Size:</b>	1111 bp
<b>RefSeq ORF:</b>	582 bp
<b>Locus ID:</b>	1945
<b>UniProt ID:</b>	<a href="#">P52798</a>
<b>Cytogenetics:</b>	1q21.3
<b>Protein Families:</b>	Secreted Protein
<b>Protein Pathways:</b>	Axon guidance
<b>MW:</b>	21.7 kDa
<b>Gene Summary:</b>	<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. Three transcript variants that encode distinct proteins have been identified. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (3), also known as ephrin-A4 (s), uses an alternate splice site in the 3' coding region, compared to variant 1, that results in a downstream translation termination. It encodes isoform c which has a distinct and slightly shorter C-terminus compared to isoform a. Isoform c lacks a characteristic transmembrane domain and the GPI-signal sequence contained in isoform a. Isoform c is a secreted molecule.</p>