

## Product datasheet for **SC117586**

### Ephrin B2 (EFNB2) (NM\_004093) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ephrin B2 (EFNB2) (NM_004093) Human Untagged Clone
Tag:	Tag Free
Symbol:	Ephrin B2
Synonyms:	EPLG5; Htk-L; HTKL; LERK5
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_004093, the custom clone sequence may differ by one or more nucleotides

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ATGGCTGTGAGAAGGGACTCCGTGTGGAAGTACTGCTGGGGTGTTTTGATGGTTTTATGCAGAAGTGC  
TTTCCAAATCGATAGTTTTAGAGCCTATCTATTGGAATTCCTCGAACTCCAAATTTCTACCTGGACAAG  
ACTGGTACTATACCCACAGATAGGAGACAAATTGGATATTATTTGCCCAAAGTGGACTCTAAAAGTGT  
GGCCAGTATGAATATTATAAAGTTTATATGGTTGATAAAGACCAAGCAGACAGATGCACTATTAAGAAG  
AAAATACCCCTCTCCTCAACTGTGCCAAACCAGACCAAGATATCAAATTCACCATCAAGTTTCAAGAATT  
CAGCCCTAACCTCTGGGGTCTAGAATTTGAGAAGAACAAAGATTATTACATTATATCTACATCAAATGG  
TCTTTGGAGGGCCTGGATAACCAGGAGGGAGGGTGTGCCAGACAAGAGCCATGAAGATCCTCATGAAAG  
TTGGACAAGATGCAAGTTCTGCTGGATCAACCAGGAATAAAGATCCAACAAGACGTCAGAACTAGAAGC  
TGGTACAAATGGAAGAAGTTCGACAACAAGTCCCTTTGTAAAACCAAATCCAGGTTCTAGCACAGACGGC  
AACAGCGCCGGACATTCGGGGAACAACATCCTCGGTTCCGAAGTGGCCTTATTTGCAGGGATTGCTTCAG  
GATGCATCATCTTCATCGTCATCATCATCAGCTGGTGGTCTCTTGCTGAAGTACCGGAGGAGACACAG  
GAAGCACTCGCCGAGCACACGACCAGCTGTGCTCAGCACACTGGCCACACCAAGCGCAGCGGCAAC  
ACAACGGCTCAGAGCCCAGTGACATTATCATCCCGCTAAGGACTGCGGACAGCGTCTTCTGCCCTCACT  
ACGAGAAGGTGAGCGGGGACTACGGGCACCCGGTGTACATCGTCCAGGAGATGCCCCGCAGAGCCCGGC  
GAACATTTACTACAAGGTCTGA
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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_004093 unedited</p> <pre> NGGTTGCCATTTGTATACGACTCACTATAGGCGCCGCGATTCCGGCACCAGNAGGATTGG GGGTCCCAGCCTGCGTCCCGTCAGTCCCTTCTTGGCCCGGAGTGCGCGGAGCTGGGAGTG GCTTCGCCATGGCTGTGAGAAGGACTCCGTGTGGAAGTACTGCTGGGGTGTTTTATGATGG TTTTATGCAGAACTGCGATTTCCAAATCGATAGTTTTAGAGCCTATCTATTGGAATTCCT CGAACTCCAAATTTCTACCTGGACAAGGACTGGTACTATACCCACAGATAGGAGACAAAT TGGATATTATTTGCCCAAAGTGGACTCTAAAAGTGTGGCCAGTATGAATATTATAAAG TTTATATGGTTGATAAAGACCAAGCAGACAGATGCACTATTAAGAAGGAAAATACCCCTC TCCTCAACTGTGCCAAACCAGACCAAGATATCAAATTCACCATCAAGTTTCAAGAATTCA GCCCTAACCTCTGGGGTCTAGAATTTTCAGAAGAACAAGATTATTACATTATATCTACAT CAAATGGGTCTTTGGAGGGCCTGGATACCAGGAGGGAGGGGTGTGCCAGACAAGGCCAT GAAGATCCTCATGANAGTTGGACAAGATGCAAGTTCTGCTGNGATCAACCAGAATAAAGA TCCAACAAGACGTCAGAACTAGAAGCTGGTACANATGGAAGAAGTTCGACACCCAGTCC CTTTGTANAACCAATCCAGTTCTAGCACAGACCGGCACAGCGCCGACATTCCGGNAA ACACATCCNTCGTCCGAAGTGGCCTTATTTGCAGGNATTGCTTCAGGATGCATCATCTT CATCGNCATCATCATCAGCTGGTGGGTCTTGTCTGAAGTCCCGNAGGAGACACAGGA AGCACTCGNCGNACACACGACCAGCTGTGCTCAGACACTGGCCACACCCAGCGCAAG </pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_004093 unedited</p> <pre> NCCCGCCTTGGGAATATTTTCATTTTTTAAAAACAAATCATTTGAAACANAGTGGAA GTGACTTCACGGATTTTCATTTCTGGGGCTAACTGCAATGTGAACTAAAGCAGATTTAA AACCTATGACAGGCTATTAATAAAAACAAAGAAAGAAAAAATATTTATAACTCAGGCA TAATACTGTGTTACTTACAAATTGGACAACGAAATTTTAAATAAATATTCATGGTACATA ATTACGGCACAATATGCAGCAATTTGGCAACCTTTTATACCATTTTTTCTCATTACAG TGCAAAGGGGAATGACACTGCCGTTAAACAAGCTGTAGCTAAATACATTGCAAAATTCAG ATTTTATACAAAACATCTTGCTTAGACTTTATAAAAAACCAACATTGCTCTATGTACACA ATCTGGGTAAGAAAAGCCATTTCTTTCTGTTTTTCATGTGATTTTTTATAAAAAGGTGA ATAAGGCTACTGTAACACCCCAATCCATAGACAGTAAATCTGAACCTATTTACAGCAT CTTCACTGAAACATGATGGTGCAATTTCCAAAGTCGGGTGACCAGNGACGATCATACAAG CAAGGCATTTACAGTAACTTTCCAAAGCTAAACCAACTTCAAACAAGGGACAGTTGGTA GATTGTCAATTTCTGCACCAGACACAAAACAGACGCACAGAACAACCTTTTCAATTGGTTGC AGGGAACCTTTTTATCAATTCATCTGATTTTTTACAGTTTATGCATAGAACCAAAACGTAG CCAACCTGATGATACATACTTTTGATTTTCAATTAATAATCAGACTATTTCCATTTTTTCCCT TTNTTGCCTCTCCCCAATCCTAAAATTACTTCTGATGGCTTAAAGAACTCTTGCTG GATTGCAC </pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_004093
<b>Insert Size:</b>	4700 bp
<b>OTI Disclaimer:</b>	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).
<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_004093.2</a> , <a href="#">NP_004084.1</a>
<b>RefSeq Size:</b>	4335 bp
<b>RefSeq ORF:</b>	1002 bp
<b>Locus ID:</b>	1948
<b>UniProt ID:</b>	<a href="#">P52799</a>
<b>Cytogenetics:</b>	13q33.3
<b>Domains:</b>	Ephrin
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Axon guidance
<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 EFNB class ephrin which binds to the EPHB4 and EPHA3 receptors. [provided by RefSeq, Jul 2008]</p>