

## Product datasheet for **MC205994**

### **Epha1 (NM\_023580) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Epha1 (NM_023580) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Epha1
Synonyms:	5730453L17Rik; AL033318; Eph; Esk
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**Fully Sequenced ORF:** >BC071215  
 GTCCCAGGTCCTCCGGCCGGCGCCATGGAGCGGCGCTGGCCCTGGGGCTTGCATTGCTGCTGCTGCTGCT  
 TGCGCCCCGCTGCCCCGGGGGCGCGCCGAGGAAGTCACTCTAATGGACACAAGCACAGCACAAAGCAG  
 AGCTGGGCTGGCTTCTGGATCCCCAGAGACTGGGTGGAGTGAGGTGCAACAAATGCTAAACGGGACACC  
 CCTGTACATGTACCAAGACTGCCAATACAGGAAGGTGGGGACTGACCACTGGCTTCGCTCCAATTGG  
 ATCTACCGGGAGAGGAAGCTTACGCATCTACGTGGAGCTGCAGTTCACCGTGGGGACTGTAAGAGTT  
 TCCCAGGGGGAGCTGGGCCTCTGGGATGCAAAGAGACTTCAACCTTTTCTACATGGAGAGTGACCAGGA  
 TGTGGGCATTAGCTCCGACGACCTTTGTTCCAAAAGGTAACAACCTGTGGCAGCAGACCAGAGCTTCACC  
 ATCAGAGACCTGGCATCTGGCTCTGTAAAGCTGAATGTAGAACGCTGCTCGTTGGGCCACCTCACCCGCC  
 GTGGCCTCTACTTAGCTTCCACAACCCGGGTTCTGTGTGGCGTAGTGTCTGTAAGGGTGTCTACCA  
 GCGCTGTGCCGAGACCGTGCATGGCTTGGCCACTTCCCTGACACTCTCCCTGGACCTGGAGGGTGGTT  
 GAAGTAGTGGAACTGCCTCTCCCATGCACAGATCAGCTTGGGGTCTCAGGTACACCACGAATGCACT  
 GCAGCCCTGATGGCGAGTGGCTGGTGCCTGTGGGTCAGTGCCAGTGCAGCCTGGCTATGAAGAAAGCAG  
 TGGAAATGTGGGATGCACTGCCTGTCTACTGGTTTCTATCGAGTGGACATGAATACACTCCGTTGTCTC  
 AAGTGCCCCAACATAGCATAGCAGAGTCTGAGGGGTCTACCATCTGTACCTGTGAGAATGGACATTATC  
 GAGCCCCGTGGGGAGGGTCCCCAGGTAGCATGCACACGTCACCCATCGGCTCCCCAAAATCTGAGCTTCTC  
 CACATCAGGGACTCAACTCTCCCTGCGCTGGGAGCCCCCAGAGATACAGGGGGACGCCATGATATCAGA  
 TACAGCGTGGAGTCTTGCAGTGTGGGGCATTGCACAGGATGGGGGTCCTGCCAACCTGTGGAAAAG  
 GTGTGCACTTTTCCCGGCTGCTTCCGGCTCACCACATCTACCGTGCAAGTGAAGGCCTCGAGCCTTA  
 CGCCAACACACATTTACCGTCAAAATCCAAAACAGAGTGTGAGGACTGGACAGTTCAGCCCTAGCAGC  
 GCCTCCCTCAGTATCAACATGGGGCAGCAGAGTCACTCTTGGCCTGTCACTGAAGCTGGTGAAGAAAG  
 AACCGAGGCAGCTGGAGCTGACTTGGGCAGGGTCCCGACCCCGAAATCCTGGAGGGAACTGAGCTATGA  
 GCTCAGCTGTGAATCAGGACGAAGAATGGCACCAGATGGTGTGGAACCCAGGGTCTTGTCTGACAAA  
 CTTGAGCCAGATACCACATACATTGTGAGAGTGGGAACACTGACCCCACTGGGGCCTTGGCCCTTCTCCC  
 CTGACCATGAGTTTCGGACAAGCCACCAAGTTTCCAGAAGCCTGACCCGAGGAGAGATTGTGGCCGTCAT  
 CTTTGGATTGCTGCTTGGAAATAGCTCTGCTGATCGGGATTTATGTCTTCCGTTCAAGGAGAGGCCAGAGA  
 CAGAGACAGCAGAGGCAGCGTGAACGCACCACCAATGTCGATCGAGAGGACAAGCTGTGGCTAAAACCTT  
 ATGTGGACCTCCAGGCCTATGAGGACCCTGCACAGGGAGCCTTAGACTTTGCCAGGAACCTGGACCCAGC  
 CTGGCTGATTGTGACACTGTATAGGAGAAGGGGAGTTTGGTGAAGTGTATCGGGGAGCCCTGAGACTC  
 CCCAGCCAAGATTGCAAGACTGTGGCCATTAAGACCTTGAAGATACATCCCAGATGGCTACTGGTGGGA  
 ATTTCTTTCGAGAGGCAACTATCATGGGCCAGTCAACCACCCACACATTCTACGCCTAGAAGGTGTCAT  
 CACAAAAGAAAGCCCATCATGATCATACAGAAATTTATGGAAAATGGAGCCCTGGATGCCTTTCTGAAG  
 GAACGGGAGGACCAACTAGCTCCTGGTCACTAGTGGCTATGCTACTGGGCATAGCATCAGGCATGAACT  
 GCCTCAGTGGCCACAATTATGTCATAGAGACCTGGCTGCCAGGAACATCTTGGTGAATCAGAACCTGTG  
 CTGCAAGGTGCTGACTTTGGCTTGACCCGCTCCTGGATGACTTTGACGGCACCTATGAAACCCAGGGA  
 GGAAAGATCCCCATCCGATGGACAGCCCCAGAAGCTATTGCCATCGGATCTTACCACAGCCAGTGATG  
 TGTGGAGCTTTGGGATTGTAATGTGGGAGGTGTGAGTTTGGCGACAAACCTATGGGGAGATGAGCAA  
 CCAAGAGGTAATGAAAAGCATTGAAGATGGGTACCGGTTGCCCTCCTGTGGACTGTCTGCCCCCTC  
 TATGAACTCATGAAGAACTGCTGGGCTTACGATCGTCCCGTGCACCCCACTTCTCCAGCTGCAGGCAC  
 ATCTGGAACAGTTGCTTACTGACCCCAATCCCTAAGGACAATTGCCAACTTTGACCCTAGGGTACCTT  
 ACGCCTGCCAGCCTGAGTGGCTCTGATGGGATCCCTTATCGAAGTGTCTCTGAGTGGCTTGAATCCATA  
 CGCATGAAGCGCTACATCCTGCACCTTCCGTTCCGCTGGGCTGGACACCATGGAGTGTGTGCTGGAGCTGA  
 CGGCTGAGGACCTGACGCAGATGGGAATAACGTTGCCAGGGCACCAGAAACGAATCTCTGCAGTATTCA  
 AGGATTTAAGGACTGAGCATCCACTGAAAAGATGCTCCAGCCCTCTGCCTGCCTCCATTAGCAAGGACGG  
 GGCTACAGTCAACTCCCTGGGCTTTCTCAGCCTACGAAATGTAGGCTATTGGTGTCTCTGCCAG  
 TCAATCAGAACTCTGCCTTTGAACCAAGGAGCCTTTGTTTATAAAGGGGGTGGATGGGTACAAGTGAAGG  
 GGACTGTGGTGGGTTCTGGGGGAGGGTTAATATATACACTTACATATGCATTATCTATTTTTGTAAT  
 AAACAAGAGTTGAGTTTTCAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI  
**ACCN:** NM\_023580

<b>Insert Size:</b>	2934 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="#">BC071215</a> , <a href="#">AAH71215</a>
<b>RefSeq Size:</b>	3254 bp
<b>RefSeq ORF:</b>	2934 bp
<b>Locus ID:</b>	13835
<b>UniProt ID:</b>	<a href="#">Q60750</a>
<b>Cytogenetics:</b>	6 B2.1
<b>Gene Summary:</b>	Receptor tyrosine kinase which binds promiscuously membrane-bound ephrin-A family ligands residing on adjacent cells, leading to contact-dependent bidirectional signaling into neighboring cells. The signaling pathway downstream of the receptor is referred to as forward signaling while the signaling pathway downstream of the ephrin ligand is referred to as reverse signaling. Binds with a low affinity EFNA3 and EFNA4 and with a high affinity to EFNA1 which most probably constitutes its cognate/functional ligand. Upon activation by EFNA1 induces cell attachment to the extracellular matrix inhibiting cell spreading and motility through regulation of ILK and downstream RHOA and RAC. Plays also a role in angiogenesis and regulates cell proliferation. May play a role in apoptosis.[UniProtKB/Swiss-Prot Function]