

## Product datasheet for **MR211365**

### **Epha1 (NM\_023580) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Epha1 (NM_023580) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Epha1
Synonyms:	5730453L17Rik; AL033318; Eph; Esk
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR211365 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAGCGGCGCTGGCCCTGGGGCTTGCAATTGCTGCTGCTGCTGCTGCTGCGCCCGCTGCCCCGGGG  
 CGCGCGCCGAGGAAGTCACTCTAATGGACACAAGCACAGCACAAGCAGAGCTGGGCTGGCTTCTGGATCC  
 CCCAGAGACTGGGTGGAGTGAGGTGCAACAAATGCTAAACGGGACACCCCTGTACATGTACCAAGACTGC  
 CCAATACAGGAAGGTGGGGACACTGACCACTGGCTTCGCTCCAATTGGATCTACCGCGGAGAGGAAGCTT  
 CACGCATCTACGTGGAGCTGCAGTTCACCGTGGGGACTGTAAGAGTTTCCAGGGGGAGCTGGGCCTCT  
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 GAAGAATGGCACCAGATGGTGTGGAACCCAGGGTCTTGTGACAAAACCTCAGCCAGATACCACATACA  
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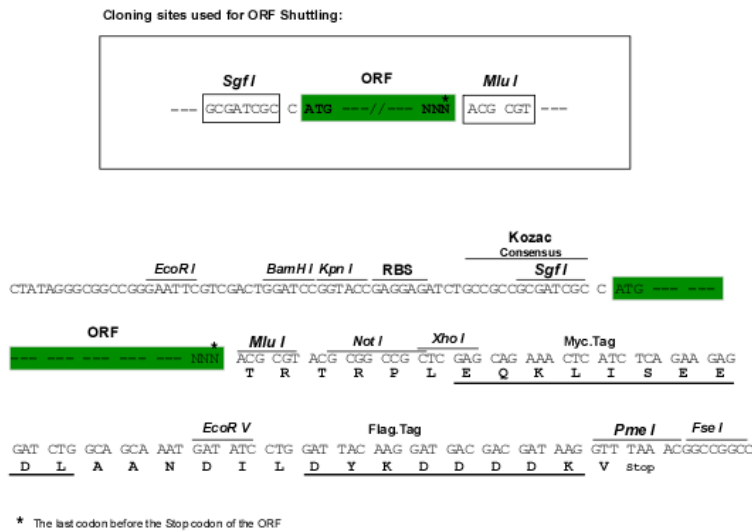
**Protein Sequence:** >MR211365 protein sequence  
 Red=Cloning site Green=Tags(s)

MERRWPLGLALLLLLLCAPLPPGARAEVTLMDTSTAQAEWGLLDPPETGWSEVQQLNGTPLYMYQDC  
 PIQEGGTDHWRNSNWIYRGEASRIYVELQFTVRDCKSFPGGAGPLGCKETFNLFYMESDQDVGILRR  
 PLFQKVTVAADQSFTIRDLASGSVKLNVERCSLGHLTRRGLYLAFHNPGSCVALVSVRVFYQRCVETVH  
 GLAHFPDTPGPGGLVEVAGTCLSHAQISLGSSTPRMHCSPDGEWLPVVGQCQCEPGYEESSGNVGTCTA  
 CPTGFYRDMNTRCLKCPQHSIAESEGSTICTENGHYRAPGEGPQVACTRPPSAPQNLFSSTSGTQLS  
 LRWEPPRDTGGRHDIRYSVECLQCRGIAQDGGPCQPCGKGVHFSAAASGLTTSTVQVQGLEPYANYTFTV  
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 EEWHQMVLPRVLLTKLQPDTTYIVRVRTLTPLGPGFSPDHEFRTSPPVSRSLTGGEIVAVIFGLLLGI  
 ALLIGIYVFRSRGQRQRQRERTTNVDREDKLWPKYVDLQAYEDPAQGDALFAQELDPAWLIVDTV  
 IGEGEFGEVYRGALRLPSQDCKTVAIKTLKDTSPDGYWNFLREATIMQGFNHPHILRLEGVITKRKPI  
 IITFEMENGALDAFLKEREDQLAPGQLVAMLLGIASGMNCLSGHNYVHRDLAARNILVNQNLCKVSDFG  
 LTRLLDDFDGTETQGGKIPIRWTAPEIAHRIFTTASDVWSFGIWMWEVLSFGDKPYGEMSNQEVMSI  
 EDGYRLPPPVDPCAPLYELMKNWAYDRARRPHFLQLQAHLQLLTDPHSLRTIANFDPRVTLRLPSLSG  
 SDGIPYRSVSEWLESIRMKRYILHFRSAGLDTMECVLELTAEDLTQMGITLPGHQKIRILCSIQGFKD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

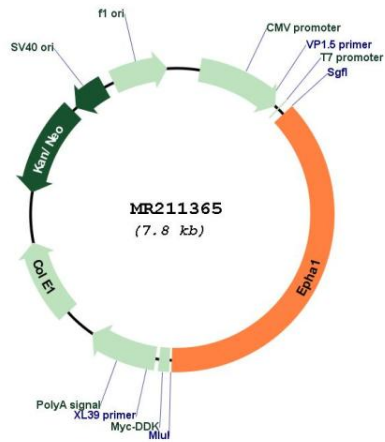
**Cloning Scheme:**



**ACCN:** NM\_023580  
**ORF Size:** 2934 bp

<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_023580.1</a> , <a href="#">NM_023580.2</a> , <a href="#">NM_023580.3</a> , <a href="#">NM_023580.4</a> , <a href="#">NP_076069.2</a>
<b>RefSeq Size:</b>	3273 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>MW:</b>	108.6 kDa
<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]

Product images:



Circular map for MR211365