

## Product datasheet for **RR204341**

### Ephb6 (NM\_001107857) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ephb6 (NM\_001107857) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Ephb6  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR204341 representing NM\_001107857  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGATCGCC

ATGGCTTCTGAGAACACGGCTGGGTGAGGAGCAGAGTGGCGGGCATGGTGTACAGTCTATGGCTCCTGG  
 TTCTGGGGCCCTCAGTTCTAGCTCTGGAAGAGGTGCTGCTGGATACCACAGGAGAGACCTCTGAGATTGG  
 CTGGCTCACCTACCCACCAGGTGGGTGGGATGAGGTGAGTGTCTAGACGACCAGCGCCGCTGACTCGG  
 ACCTTCGAAGCATGCCAGTTCGACAGGGCTCCCTCCCGGTTCTGGGCAGGACAATTGGCTACAGACACACT  
 TTGTGGAGCGGCCAGGGGCCAGAGGGCACACATCCGTCTTCACTTCTCTGTGCGAGCCTGTTCCAGCCT  
 GGGCGTGAAGTGGAGGTACCTGCCGAGAGACCTTACCCTTTACTACCGGCAGGCTGATGAACCAGACAGC  
 CCTGACAGTATTTGCGCCTGGCACCTCAAACGCTGGACCAAAGTGGACACAATCGCAGCAGATGAGAGCT  
 TCCCTGCCTCCTTCTTCTTCTCCTGGGCTGTGGGACCCACAGGACTGATCAGCGGGTGGGACTGCA  
 GCTGAATGTCAAAGAGCGCAGTTTTGGTCTCTCACTCAGCGTGGCTTCTACGTGGCCTTCCAGGACACA  
 GGGGCTGCCTGGCCCTGTAGCAGTCAAGCTCTTCTCCTATACCTGTCCCTCCGCTCTGCGCCCTTTG  
 CCTTTTTCTGAGACACAGGCCAGCGGAGCTGGAGGTGCCTCCTTAGTAGCTGTGTGGGCACCTGTGT  
 AGCTCATGCGGAACCCGAGGAGGATGGCGTAGGAGGCCAGGCAGGGGGCAGCCACCAAGGTTACACTGT  
 AATGGGGAAGGAAGGTGGATGGTAGCTGTGGGAGGCTGTCGCTGCCAGCCTGGACACCAGCCTGCTCGTG  
 GAGACAAGCTCTGCCAAGCCTGCCCTGAGGGGTCTATAAGGCACTGCCTGGAAATGTCCCTGCTCACC  
 GTGTCCAGCCCGCAGCCACTCCCCTGACCCTGCAGCCCCAGTTTGTCCCTGTCTCCAAGGTTTCTACAGG  
 GCCAGTTCTGACCACCAGAGGCTCCCTGCACTGGTCTCCATCAGCTCCCCGGGAGCTTTGGTTTGAGG  
 TTCAAGGCTCAGCACTTATGCTGCACTGGCGCCTGCCTCAGGAGCTGGGCGGACGAGGGGACCTGCTCTT  
 CAATGTTGTGTGCAAGGAATGTGGAGGTACAAGGAGCCAGCAGTGGGGGAATGTGTGCGCCGCTGCAGG  
 GATGAGGTGCATTTGACCCCCGCCAGAGGGCCCTGACCAGAGTTCGAGTGTAGTTGGTGGGCTCCGAG  
 CACAGTGCATACATCTTGGAAGTGCAGGCTGTCAATGGGGTGTCTGAGCTCAGCCTGACCCCTCCCA  
 GGACAGCAGCCATCAATGTGAGCACCAGCCATGAAGTTCCTTCTGAGTCCCTGTGATGCACCAGGTGAGC  
 CGGGCCGCCAACAGCATCACAGTGTCTGGCCACAGCCTGAACAAACAAATGGAACATCCTTGACTATC  
 AGCTGCGTACTATGACCAGGCAGAAGTGAATCCCACTCCTTACCATGACCAGTGAAGTAACTGAC  
 CACTGTGACACGGTTGAGCCCTGGCCACATTTATGGCTTCCAGGTTTCGAGCACGGACTGCGGCTGGCCAT



[View online »](#)

GGCCCCTATGGGGGCAAAGTCTATTTTCAGACACTGCCTCAAGGTGAGCTGTCCTCCCAGCTTCCAGAGA  
 AGCTGTCCTTGGTGATTGGTTCCATCCTGGGGCCTTGGCCTTCTTCTACTGGCAGCCATCACTGTACT  
 GGCTGTCACTTCCAGCGGAAGCGGCGTGGGACCGGCTACACAGAACAACGCAACAGTACAGCAGCCCA  
 GGACTTGGAGTGAAGTATTACATTGACCCTTCCACGTATGACGACCCCTGCCAGGCCATCAGAGAGCTTG  
 CTCGAGAGGTTGACCCTACATAATCAAGATTGAGGAAGTCATTGGGGCAGGTTCTTTGGAGAAGTGCG  
 TCGGGCCGACTGCAACCCCGGGGAAGGCGGGAACAGGCTGTGGCTATCCAGGCCCTGTGGGCAGGGGGT  
 GCTGAGAGCCTGAAGATGACCTTCTGGGTCGGGCAGCCCTGCTGGCCAGTTCCAGACCCCAATATCC  
 TGCCTGGAAGGTGATGCACTAGGAGTCGGCCTGTCATGGTGTGACAGAACTCATGGAGCTTGGTCC  
 CCTGGACAGCTTCTTAGGCAGCGAGAGGGCCAGTTCAGTAGCCTGCAGCTGGTGGCCATGCAGCGGGT  
 GTGGTGTGCCATGCAGTACCTGTCCAGCTTTGCCTTTGTTACCGAGCACTCTCAGCCGAAGTGTGC  
 TAGTGAATAGCCACCTGGTGTGTAAGGTGGCCGTCTTGGCCACAGTCTCAGGGTTCAAGTTCTTGTCT  
 TCGCTGGCAGCCCGAGAGGTATCACACCGGGAAGTACACAACATCTAGCGATGTCTGGAGCTTTGGC  
 ATACTCATGTGGGAAGTGTAGCTATGGAGAACGGCCCTACTGGGACATGAGTGACCAGGAGGTACTAA  
 ATGCGATAGAGCAAGAGTCCGGCTGCCCCACCTCCGGGTGCCCTACTGGACTACATCTGCTGATGCT  
 AGACACTTGGCAGAAGGACCGTCCCGTCCGGCCTCACTTTGACCAGCTCGTAGCCCGTTTGACAAGATG  
 ATACGCAAGCCTGATACCTCCAGGCTGAAGGGAGCTCCGGGGACAGGCCTTCCAGGCTCTTGAACC  
 CTGTGGCCTTGGACTTCTTGCCTGGACTCTCCCGAGCCTGGCTTTCAGCCATTGGACTAGAGTGCTA  
 CCAGGACAACCTCTAAGTTTGGTCTTCCACCTTCACTGATGTGGCTCAGCTCAGCCTTGAGACCTG  
 CCAGGCTGGGCATCACCTAGCTGGCCACCAGAAGAACTACTGCATAACATCCAGCTCTCCAGCAGC  
 ACCTGAGGCAGCCAGGCTCGGTGGAAGT

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR204341 representing NM\_001107857  
 Red=Cloning site Green=Tags(s)

MASENTAGSGSRVAGMVYSLWLLVLGPSVLALEEVLDDTTGETSEIGWLTYPGGWDEVSVLDDQRRLTR  
 TFEACHVAGLPPGSGQDNWLQTHFVERRGAQRAHIRLHFVSRACSSLGVSGGTCREFTFLYYRQADEPDS  
 PDSISAWHLKRWTKVDTIAADESFPASSSSSSWAVGPHRTDQRVGLQLNVKERSFGPLTQRGFYVAFQDT  
 GACLALVAVKLFYTCPSVLRFAFSPETQASGAGGASLVAAVGTCVAHAPEEDVGGQAGGSPRLHC  
 NGEGRWMVAVGGCRCQPGHQPARGDKLQACPEGSYKALPGNVPCSPCPARSHSPDPAAPVCPCLQGFYR  
 ASSDPPEAPCTGPPSAPRELWFEVQGSALMLHWRLPQELGGRDILLFNVVCKECCGHKEPSSGGMCRRCR  
 DEVHFDPQRGLTESRVLVGGRAHVPILEVQAVNGVSELSPDPPQAAAINVSTSHVPSAVPVMHQVS  
 RAANSITVSWPQPEQTNGNILDYQLRYDQAEDESHSFTMTSETNTATVTRLSPGHIYGFQVRARTAAGH  
 GPYGGKVYFQTLQGELSSQLPEKLSLVIGSILGALAFLLAAITVLAVIFQRKRRGTGYTEQLQQYSSP  
 GLGVKYYIDPSTYDDPCQAIARELAREVDPTYIKIEEVIGAGSFGEVRRGRQLQPRGRREQAVAIQALWAGG  
 AESLKMFTLGRAALLGQFQHPNILRLEGVVTRSRPVMVLTELMELGPLDSFLRQREGQFSSLQLVAMQRG  
 VAAAMQYLSFAFVHRALSARSVLVNSHLVCKVARLGHSPQSSSLLRWAPEVITHGKYTTSSDVWSFG  
 ILMWEVMSYGERPYWMSDQEVLNIEQEFRLLPPPCCPTGLHLLMLDTWQKDRARRPHFDQLVAAFDM  
 IRKPDTLQAESSGDRPSQALLNPVALDFPCLDSPQAWLSAIGLECYQDNFSKFLSTFSDVAQLSLEDL  
 PGLGITLAGHQKLLHNIQLLQHLRQPGSVEV

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

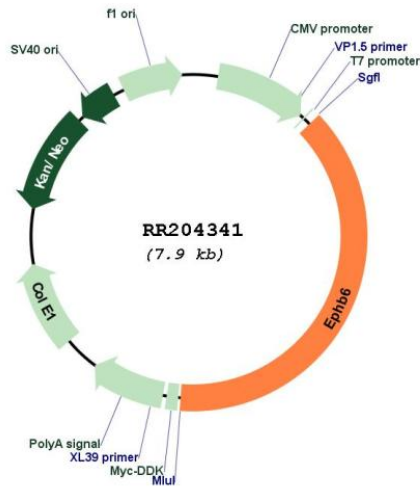
**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001107857  
 ORF Size: 3039 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_001107857.1</a> , <a href="#">NP_001101327.1</a>
<b>RefSeq Size:</b>	4066 bp
<b>RefSeq ORF:</b>	3042 bp
<b>Locus ID:</b>	312275
<b>UniProt ID:</b>	<a href="#">P0C0K7</a>
<b>Cytogenetics:</b>	4q23
<b>MW:</b>	110.3 kDa
<b>Gene Summary:</b>	Kinase-defective receptor for members of the ephrin-B family. Binds to ephrin-B1 and ephrin-B2. Modulates cell adhesion and migration by exerting both positive and negative effects upon stimulation with ephrin-B2. Inhibits JNK activation, T-cell receptor-induced IL-2 secretion and CD25 expression upon stimulation with ephrin-B2 (By similarity).[UniProtKB/Swiss-Prot Function]