

## Product datasheet for **RR206853**

### Ephb3 (NM\_001105868) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ephb3 (NM\_001105868) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Ephb3  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR206853 representing NM\_001105868  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGATCGCC

ATGGCCGGAGCCCGCCCGCCGGGGCTTCTGCCGCTGCTCGCTCCGCTGCTGCTGCCGCTGCTGCTGC  
 CCGCCGGTCTGCCGGCGCTGGAAGAGACTCTCATGGACACGAAATGGGTGACGTCGAGCTGGCATGGAC  
 ATCTCATCCAGAGAGTGGTGGGAAGAAGTGGCGCTACGATGAAGCCATGAATCCTATCCGCAGTAT  
 CAGGTGTGTAACGTGCGCGAGTCCAGCCAGAACAAGTGGCTGCGGACCGTTTCATCTGGCGGGGGAAG  
 TCCAGCGCTCTACGTGGAGCTGAAGTTTACCGTGGAGATTGCAACAGCATCCCCAACATCCCTGGCTC  
 CTGCAAGGAAACCTTCAACCTTTTTACTACGAGGCTGATAGCGATGTGGCGTCAGCCTCCTCCTCCTTC  
 TGGATGGAGAACCCTACGTGAAAGTGGACACATTGCGCCAGATGAGAGCTTCTCGCGCTAGACGCTG  
 GGCGGTTAACACCAAAGTGGCAGCTTCCGGCCGCTTCCAAAGCCGGCTTCTACTTGGCCTCCAGGA  
 CCAGGGTGCCTGCATGCTACTCATCTCTGTGCGCGCTTCTACAAGAAGTGTGCATCCACACTGCAGGC  
 TTCGACTCTTCCCGAGACCTCACGGGGCTGAGCCACTTCGCTGGTATTGCCCTGGCACCTGCA  
 TCGCTAACGCTGTGGAGGTGTCTGTACCGCTCAAGCTCTACTGCAATGGCGACGGGGAGTGGATGGTGCC  
 CGTTGGTGCCTGCACCTGCGCTACTGGCCATGAGCCAGCCGCAAGGAGACCCAGTGCCGCGCTGTCCC  
 CCTGGGAGCTACAAGGCAAAGCAAGGAGAGGGCCCTGCCTCCCTGTCCCCCAATAGCCGCACCACT  
 CGCCGGTCTGCCAGCATCTGCACCTGTACAATAATTTCTACCGCGCAGACTCAGACACAGCGGACAGCGC  
 CTGCACCACGGTGCCTCTCCCCCGGGGTGTGATCTCCAATGTGAATGAGACCTCGTGATCCTCGAG  
 TGGAGTGAACCCGGGACCTTGGCGGACGAGATGACCTCCTTTATAATGTTATCTGTAAGAAGTGGCGT  
 GCAGCTCTGGGCTGGAGTCCGGCGACCTGTTACGCTGTGATGACAACGTGGAGTTCGAGCCCCGACA  
 GCTGGGCTGACCGAGCGCCGGTCCACATCAGCCACTGTTGGCCACACCCGCTACACCTTTGAGGTG  
 CAGGCTGTCAACGGCGTCTTGCCAAAAGCCCTTTGCCGCCCGCTATGCAGCTGTGAATATCACCA  
 ACCAGGCCGCCCATCAGAAGTGCCTACGCTCCACTTGCACAGCAGTTTCAGGGAGCAGCCTGACCCGTGC  
 CTGGGCACCCCGGAGCGCCTAACGGAGTCACTTGGACTATGAGATGAAGTACTTTGAGAAGAGTAAA  
 GGCATCGCTCCACTGTCAACAGCCAGAAGAAGTCTGTACAAGTGGACGACTGCAGCCCCGACGCCCGCT  
 ATGTAGTTCAGGTCCGGCTCGCACAGTACGAGTTACGGACAGTATAGCCGCCAGCTGAGTTTGGAGC  
 CACGAGTGAAGAGGCTCAGGGGCCAGCAGCTTCAAGAGCAGCTTCCCTAATTGTGGGATCCACCGTA



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GCTGGCTTTGCTTCATGGTGGTCGTCGTGGTCATTGCTCTTGTCTGCCTCAGGAAGCAGCGCCAGGGCC  
 CTGATGCAGAATACACGGAGAAGTTGCAGCAATACGTTGCCCCAGGATGAAAGTTTACATTGACCCCTT  
 TACCTACGAGGATCCCAATGAGGCCGTCGAGAGTTCCGCAAGGAGATCGATGTGTCTCGCTCAAGATC  
 GAGGAGGTGATTGGAGCTGGGGAGTTTGGGGAAGTGTGCCGGGTGCGCTGAAACTGCCCGGCCCGGG  
 AGGTGTTCTGTGGCCATCAAGACTGAAGTGGGATACACGGAGAGGCAGCGCGGGACTTCTGAGTGA  
 GGCTTCCATCATGGTCAATTTGACCATCCAAATATAATCCGCTAGAGGGCGTGGTCAACAAAAGTCGT  
 CCAGTCATGATCCTCACTGAGTTCATGGAGAAGTGTGCCCTGGACTCCTTCTACGGCTCAATGACGGGC  
 AGTTCACAGTCATCCAGCTTGTGGGCATGTTGCGTGGCATTGCTGCCGGCATGAAGTACTTGTCTGAGAT  
 GAACTACGTGCACCGTGACCTCGCTGCCCGCAACATCCTTGTCAACAGTAACTTGGTCTGCAAAGTATCT  
 GACTTTGGGCTCTCCGCTTCTGGAGGACGACCCCTCAGACCCACCTACACCAGCTCCCTGGGTGGGA  
 AGATCCCTATCCGTTGGACCGCCAGAGGCCATAGCCTATCGGAAGTTCACGTCTGCCAGCGATGTCTG  
 GAGCTACGGGATCGTCATGTGGGAGTCTGAGCTACGGAGAGCGACCATACTGGGACATGAGCAACCAG  
 GATGTCATCAATGCCGTAGAGCAAGACTATCGGTTACCACCCCATGGACTGCCCCACGGCGTGCACC  
 AGCTCATGCTGGACTGTTGGGTGCGGGACCGAACCTCAGGCCAAGTTCTCCAAATCGTCAACACGCT  
 AGACAAGCTTATCCGCAATGCTGCCAGCCTCAAGGTCATCGCCAGTGCCCATCTGGCATGTCCCAGCCC  
 CTCTAGACCGCAGGTCAGATTATACGACCTTACAGCGGTGGGCGACTGGCTAGATGCCATCAAGA  
 TGGGGAGGTATAAAGAGAGCTTCGTCGGTGCGGGTTTTGCCTCCTTTGACCTGGTGGCCAGATGACTGC  
 AGAAGTCTGCTAAGGATCGGGTCACTTTGGCCGGCCACCAGAAGAAGTCTCAGCAGTATCCAGGAC  
 ATGCGGCTGCAGATGAACCAGACTGCCCGTGCAGGAAGTGTGCCCAAACCTTTCATATTGAAGATG  
 GATTAGAAGAGGGGGTATATCCCTCCCAGATGCCTCAGGGCCAGGCCTGCCTGCTCTCCAGTCGGG  
 GATCTTCACAACTCAGATTTGGTGTGCTTCAGTAGTGGAGGTCCTGGTAGGGTCGGGTGGGGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR206853 representing NM\_001105868  
 Red=Cloning site Green=Tags(s)

MAGARPPPGLLPLLAPELLLPLLLPAGCRALEETLMDTKWVTSELAWTSHPESGWEEVSGYDEAMNPIRTY  
 QVCNVRESSQNNWLRTGFIWRREVQRVYVELKFTVRDCNSIPNIPGSCKETFNLFYEADSDVASASSPF  
 WMENPYVKVDTIAPDESFSRLDAGRVTNKVRSFGLSKAGFYLAQDQGACMSLISVRAFYKCASTTAG  
 FALFPETLTGAEPTSLVIAPGTCIANAVEVSVPLKLYCNGDGEWMVPGACTCATGHEPAAKETQCRACP  
 PGSYKAKQGEGLPCPPNSRTTSPAASICTCHNNFYRADSDTADSACTTVPSPPRGVISNVNETSLILE  
 WSEPRDLGGRDILLYNVICCKCRGSSGAGGPATCSRDDNVEFEPRLGLTERRVHISHLAHTRYTFEV  
 QAVNGVSGKSPLPPRYAANITNQAAPSEVPTLHLHSSGSSLTWSWAPPERPNGVILDYEMKYFEKSK  
 GIASTVTSQKNSVQLDGLQPDARYVVQVRARTVAGYQYSRPAEFETTSERGSQAQLQEQLPLIVGSTV  
 AGFVFMVVVVIALVCLRKQRQGPDAEYTEKLQYVAPRMKVYIDPFTYEDPNEAVREFAKEIDVSCVKI  
 EEVIGAGEFGEVCRGRLKLPGRREVFVAIKTLKVGYTEQRDFLSEASIMGQFDHPNIIIRLEGVVTKSR  
 PVMILTEFMENCALDSFLRLNDGQFTVIQLVGMLRGIAAGMKYLSMNYVHRDLAARNILVNSNLVCKVS  
 DFGLSRFLLEDDPSDPTYTSSLGGKIPIRWTAPEAIAYRKFTSASDVWSYGIWMWEVMSYGERPYWDSNQ  
 DVINAVEQDYRLPPMDCPALHQLMLDCWVRDRNLRPKFSQIVNTLDKIRNAASLKVIASAPSGMSQP  
 LLDRTVPDYTTFTTVDWLDIAIKMGYKESFVGAGFASFDLVAQMTAEDLLRIGVTLAGHQKILSSIQD  
 MRLQMNQTLPVQEVCPKPLHIEDGLEEGVISPPQMPQGPLPALQSGIFTTQIWLCFSSGGPGRVWG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

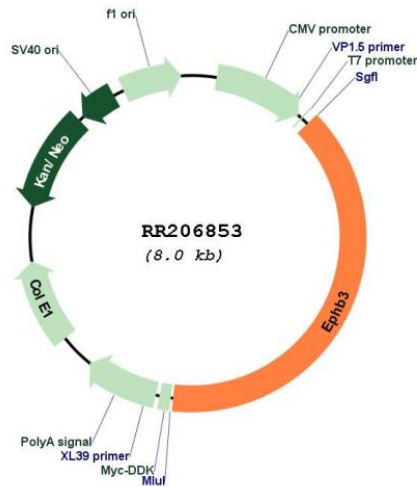
Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM\_001105868

ORF Size: 3144 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>	<u><a href="#">NM_001105868.1</a></u> , <u><a href="#">NP_001099338.1</a></u>
<b>RefSeq Size:</b>	4009 bp
<b>RefSeq ORF:</b>	3147 bp
<b>Locus ID:</b>	287989
<b>Cytogenetics:</b>	11q23
<b>MW:</b>	115.5 kDa