

Product datasheet for **RR203198**

Ephb2 (NM_001127319) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ephb2 (NM_001127319) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Ephb2
Synonyms: RGD1564232
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR203198 representing NM_001127319
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGGATCGCC

ATGGCCGTGCGCAGGCTGGGGCCGCGCTGCTGCTGCTGCCGCTGCTAGCCGCCGTGGAAGAAACTGA
TGGACTCTACTACAGCAACGGCTGAGCTGGGCTGGATGGTACATCCCCATCAGGGTGGGAAGAGGTGAG
CGGCTACGATGAGAACATGAACACTATCCGTACCTACCAGGTGTGCAATGTCTTTGAGTCAAGCCAGAAC
AACTGGCTACGGACCAAATTCATCCGGCCCGCGGCGCCACCAGCATCCACGTGGAGATGAAGTTCTCGG
TGGCTGACTGTAGCAGCATTCCCAGCGTGCCCGGCTCCTGCAAGGAGACCTTCAACCTCTACTACTATGA
GGCTGATTTTGACTTAGCCACCAAGACCTTCCCAACTGGATGGAGAATCCGTGGGTGAAGGTGGACACC
ATTGCGGCTGATGAGAGCTTTTCCAGGTGGATCTGGGTGGCCGCGTCATGAAAAACAACACTGAGGTGC
GAAGCTTCGGTCCCGTGTCCCGCAATGGTTTCTACCTGGCCTCCAGGACTACGGCGGCTGTATGCCCT
CATTGCGGTGCGCGTCTTCTACCGGAAGTGCCCGGAGTCATCCAGAATGGTGCCATCTTCCAGGAGACA
CTGTGGGGGCTGAGAGCACCTCACTGGTAGCTGCTCGGGCAGCTGCATCGCCAACGCTGAAGAAGTGG
ATGTACCCATCAAACCTACTGTAAACGGGGACGGCGAATGGCTGGTGGCCATCGGTGATGTGCAA
GGCGGGCTTCGAGGCTGTGGAGAACGGTACCGTCTGCCGAGTTGTCCATCAGGAACCTCAAGGCCAAC
CAAGGGGATGAAGCCTGTACCCACTGTCCCATCAACAGCCGTACCACCTCCGAGGGTGCCACCAACTGTG
TGTGCCGTAACGGCTACTACAGGCTGACCTGGACCCCTTAGACATGCCTTGACAAACCATCCCCTCTGC
GCCCCAGGCTGTGATCTCCAGTGTCAACGAGACGTCCCTCGTGCTAGAGTGGACCCGCCACGAGACTCG
GGGGCCGTGAGGACCTTGTTTAAACATCATCTGCAAGAGCTGTGGCTCAGGCCGGGTGCCTGCACGC
GCTGTGGAGACAATGTGCAGTACGCACCCCGCAGCTAGGCTGACCGAGCCACGCATCTACATCAGTGA
CCTGCTGGCACACACAGTACACCTTCGAGATCCAGGCCGTGAATGGTGTACCGACCAGAGTCCCTTC
TCACCTCAGTTCGCTCTGTGAACATCACCAACCAAGCAGCACCGTCCGCGGTGTCCATCATGCACC
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GGACTATGAACTACAGTACTATGAGAAGGAGCTCAGTGAGTACAACGCCACAGCCATAAAAAGCCCCACC
AACACAGTCACTGTGAGGGCCTCAAAGCCGGCACCATCTATGTCTTCCAGGTGCGGGCACGCACCGTGC



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CAGGCTATGGGCGTTACAGTGGCAAGATGTA CTCTCCAACCATGACAGAAGCCGAGTACCAGACCAGCAT
 CAAGGAAAAGCTGCCCTCATCGTCCGGCTCCTCCGCTGCCGGCGTAGTCTTCGTATCGCCGTGGTCGT
 ATTGCCATCGTATGTAACAGACGGGGTTTGAGCGTGCCGACTCAGAGTACACGGACAAGCTGCAGCACT
 ACACCAGCGGCCACATGACCCAGGCATGAAGATCTATATTGACCCTTTACCTATGAAGATCCTAATGA
 GGCAGTGGGGAGTTTGCCAAGGAAATCGACATCTCTGTGTCAAGATTGAGCAGGTGATTGGAGCAGGG
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 CACTCAAGTCAGGATACACAGAGAAACAGCGCCGGGACTTCTGAGTGAGGCATCCATCATGGCCAGTT
 CGACCACCCCAATGTCATCCACCTGGAAGGGTTGTACCAAGAGCACACCTGTCATGATCATCACTGAA
 TTCATGGAGAACGGTTCCCTGGACTCCTTCTCCGGCAAAACGATGGGCAGTTACAGGTCATCCAACCTGG
 TGGGCATGCTGAGGGGCATCGCAGCTGGCATGAAGTACCTGGCGGACATGAACTATGTGCACCGGGACCT
 TGCTGCACGCAACATCCTTGTCAATAGCAACCTGGTGTGCAAGGTGTCTGACTTCGGGCTCTCACGCTTC
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 CAACAGCCTCAAAGCTATGGCGCCCTGTCTCTGGTATCAACCTGCCACTACTGGACCGCACGATACCC
 GACTACACCAGCTTAAACACAGTGGATGAGTGGCTGGAGGCCATCAAGATGGGCCAGTACAAGGAGAGCT
 TTACCAACGCCGCTTACCTCTTTGACGTGCTATCTCAGATGATGATGGAGGACATTCTCCGGTTGG
 GGTCACTTAGCTGGCCACCAGAAAAAATCCTGAACAGTATCCAGGTGATGCGGGCCAGATGAACCAG
 ATCCAGTCGGTAGAGTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGTTTAA

Protein Sequence:

>RR203198 representing NM_001127319
 Red=Cloning site Green=Tags(s)

MAVRRLLGAAALLLPLLA VEETLMDSTTATAELGWMVHPPSGWEEVSGYDENMNTIRTYQVCNVFESSQN
 NWLRTKFI RRRGAHRIHVEMKFSVRDCSSIPVPGSCKETFNL YYYEADFDLTKTFPNWMENPWVKVDT
 IAADSFQVDLGGVMKINTEVRSFGPVS RNGFYLA FQDYGGCMLIAVRV FYRKCPRVIQNGAIFQET
 LSGAESTSLVAARGSCIANAEVDVPIKLYCNGDGEWL VPIGRMCKAGFEAVENGTVCRCPSGTFKAN
 QGDEACTHCPINSRTTSEGATNCVCRNGYYRADLDPLDMPCTTIPSAPQAVISSVNETSLVLEWTPPRDS
 GGREDLVYNIICKSCGSGRGACTRCGDNVQYAPRQLGLTEPRIYISDLLAHTQYTFEIQAVNGVTDQSPF
 SPQFASVNITTNQAAPS AVSIMHQVSRVDSITLSWSQPDQPNGVILDYELQYYEKELSEYNATAIKSPT
 NTVTVQGLKAGTIYVFQVRARTVAGYGRYSKMYFQTMTEAEYQTSIKEKLP LIGSSAAGVVFVIAVVV
 IAIVCNRRGFERADSEYTDK LQHYSGHMTPGMKIYIDPFYEDPNEAVREFAKEIDISCVKIEQVIGAG
 EFGVCSGHLKLP GKREIFVAIKTLKSGYTEKQRRDFLSEASIMGQFDHPNVIHLEGVVTKSTPVMITE
 FMENGLSDSFLRQNDGQFTVIQLVGMLRGI AAGMKYLADMNYVHRDLAARNILVNSNLVCKVSDFLSRF
 LEDDTSPTYTSALGGKIPIRWTAPEAIQYRKFTSASDVWSYGI VMWEVMSYGERPYWDMTNQDVINAIE
 QDYRLPPPMDCP SALHQLMLDCWQKDRNHRPKFGQIVNTLDK MIRPNLSLKAMAPLSSGINLPLLDRTIP
 DYTSFNTVDEWLEAIKMGQYKESFTNAGFTSFDVVSQMMEDILRVGVTLAGHQKILNSIQVMRAQMNQ
 IQSVEV

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

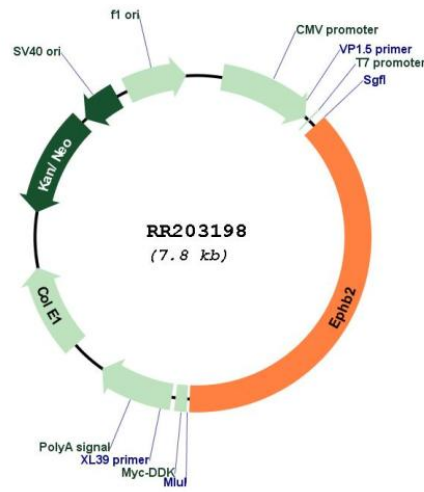
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001127319
 ORF Size: 2958 bp

OTI Disclaimer:	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. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	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).
Reconstitution Method:	<ol style="list-style-type: none"> 1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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.
RefSeq:	<u>NM_001127319.1, NP_001120791.1</u>
RefSeq Size:	2970 bp
RefSeq ORF:	2961 bp
Locus ID:	313633
Cytogenetics:	5q36
MW:	109.9 kDa