

Product datasheet for MR211450

Ephb6 (NM_001146351) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Ephb6 (NM_001146351) Mouse Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Ephb6
 Synonyms: Cekl; Mep
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 ORF Nucleotide Sequence: >MR211450 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGGCTACTGAGGGCAGCACTGGCTCAGGGAGCAGAGTGGTGCCGGGCATGGTGTGCAGTCTGTGGCTCC
 TGGTTCTAGGGTCATCAGTTCTAGCTCTGGAAGAGGTGCTGCTGGATACACAGGAGAGACCTCTGAGAT
 TGGCTGGCTCACCTACCCGCCAGGTGGTGGGATGAGGTGAGTGTCTAGATGACCAGCGCCGTCTGACT
 CGGACCTCGAAGCATGCCAGTTGCAGGGCTCCCTCCTGGTTCTGGCCAGGACAATTGGCTGCAGACAC
 ACTTTGTGAACGCGAGGGGCCAGAGGGCACACATCCGCCTTCACTTCTCTGTACGAGCTGTTCCAG
 CCTGGGTGTGAGTGGGGTACCTGCCGAGAGACCTTACCCTTTACTACCGGCAGGCTGATGAGCCAGAC
 GGCCCCGACAGTATTGCGCCTGGCACCTCAAACGCTGGACCAAAGTGGACACAATTGCCGAGATGAGA
 GCTTCCCTGCCTCCTTCTCCTCCTCATGGGCTGTGGGACCCACAGGACCGGTGAGCGGGTGGGACT
 GCAGCTGAATGTCAAAGAGCGCAGCTTTGGTCTCTCACTCAGCGTGGCTTCTATGTGGCCTTCCAGGAC
 ACAGGGGCTGCCTGGCCCTTGTGGCAGTCAAGCTTCTCCTACACCTGTCCCTCCGTCTGCCTGGCT
 TTGCCTCTTTTCTGAGACACAGGCCAGTGGAGCTGGAGGGGCTCCTTAGTGGCAGCTGTGGGCACCTG
 TGTAGCTCATGCAGAACCAGAGGAGGATGGAGTAGGAGGCCAGGCAGGGGGCAGCCCCCAAGGTTACAC
 TGTAAATGGCGAAGGCAGGTGGATGGTAGCTGTGGGAGGCTGCCGCTGCCAGCTGGACACCAGCCTGCTC
 GTGGAGACAAGCTCTGCCAAGCCTGCCCTGAGGGATCCTATAAGGCCCTGGCTGGGAATGTTCCCTGTTT
 ACCGTGTCCAGCCCGCAGCCACTCCCCTGACCCTGCAGCCCCAGTTTGCCCATGTCTCCAAGCTTCTAC
 AGGGCCAGTTCGGACCCACCAGAGGCTCCCTGCACTGGTCTCCATCGGCTCCCCGGGAGCTATGGTTTG
 AGGTGCAAGGCTCGGCACTCATGCTGCACTGGCGTCTGCCTCAGGAGCTGGGTGGACGAGGGGATCTGCT
 CTTCAATGTTGTGCAAGGAGTGTGGAGGTACGGAGAGCCAGCAGTGGGGGATGTGTCGCCGCTGC
 AGGGACGAGGTGCATTTGACCCCCGCCAGAGGGGACTGACTGAGAGTCGAGTGTAGTTGGGGGCTCC
 GAGCACACGTGCCATACATCTTGAAGTGCAGGCTGTCAATGGGGTGTCTGAGCTCAGCCCTGACCTCC
 CCAGGCAGCAGCCATCAATGTCAGCACCAGCCACGAAGTCCCTTCTGCAGTCCCTGTGATGCACCAGGTG



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AGCCGGGCGACCAACAGCATCACAGTATCCTGGCCACAGCCTGAGCAAACAAATGGGAACATCCTCGACT
 ACCAGCTGCGCTACTATGACCAGGCAGAAGATGAATCCCCTCCTTACCATGACCAGTGAGACCAACAC
 TGCCACTGTGACACGGTTGACCCCTGGCCACATCTATGGCTTCCAGGTGCGGGCACGGACTGCAGCTGGC
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 TTGCTCGAGAGGTTGACCCTACATATATCAAGATTGAAGAAGTCAATGGGGCAGGTTCTTTGGAGAAGT
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 GGTGCTGAGAGCCTGAAGATGACCTTCTGGTGGGCGAGCAGTCTGGGCCAGTCCAGCACCCCAATA
 TCCTGCGGCTGGAAGGTGTAGTCACTAAGAGTGGCCTGTGATGGTGTGACAGAAGTCTGGAAGTGG
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 TAAATGCAATAGAGCAAGAGTCCGGCTGCCCCACCTCCAGGTTGCCCCCTGGACTACATCTACTGAT
 GCTAGACACTTGGCAGAAGGACCGTGCCTCGGCCTCATTTTGACCAGCTGGTAGCTGCATTTGACAAG
 ATGATTCGCAAGCCTGATACTCTCCAGGCTGAAGGGGGCTCCGGGGACAGGCCTTCCAGGCTCTTCTGA
 ACCCTGTGGCCTTGGACTTCCCTTGCCTGGACTCTCCCGAGCCTGGCTTTCAGCCATTGGACTAGAGTG
 CTACCAGGACAATTCTCAAGTTTGGTCTTCCACCTCAGTGATGTGGCTCAGCTCAGCCTGGAAGAC
 CTGCCAGGCTGGGCATCACCTAGCTGGCCACCAGAAGAACTTCTGCACAACATTCAGCTCCTCCAGC
 AGCACCTGAGGCAGCCAGGCTCAGTGAAGTG

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR211450 protein sequence
 Red=Cloning site Green=Tags(s)

MATEGTTGSGSRVVGAMVCSLWLLVLGSSVLALAEVLLDITGETSEIGWLTYPGGWDEVSVLDDQRRLLT
 RTFEACHVAGLPPGSGQDNWLQTHFVERRAQRAHIRLHFVSRACSSLGVSGGTCREFTLYRQADEPD
 GPDSIAAWHLKRWTQVDTIAADESFPASSSSSSWAVGPHRTGQRVGLQLNVKERSFGPLTQRGFYVAFQD
 TGACLALVAVKLFSYTCPSVLRFAFSPETQASGAGGASLVAAVGTCVAHAPEEDGVGGQAGGSPRLH
 CNGEGRWMVAVGGCRCQPGHQPARGDKLCQACPEGSYKALAGNVPCSPPARSHSPDPAAPVCPCLQGFY
 RASSDPPEAPCTGPPSAPRELWFEVQGSALMLHWRLPQELGGRDLLFNVVCKECCGGHGEPSSGGMCRR
 RDEVHFDPRQRGLTESRVLVGLRAHVPYILEVQAVNGVSELSPPPPQAAAINVSTSHEVPSAVPVMHQV
 SRAANSITVSWPQPEQTNGNILDYQLRYDQAEDESHSF TMTSETNTATVTRLTPGHIYGFQVRARTAAG
 HGPYGGKYYFQTL PQGELSSQLPEKLSLVIGSILGALAFLLAAITVLAVIFQRKRRGTGYTEQLQQYSS
 PGLGVKYYIDPSTYDDPCQAIRELAREVDPTYIKIEEVI GAGSFGVRRGRLQPRGRREQAVAIQALWAG
 GAESLKMFTLGRAALLGQFQHPNILRLEGVVTKSRPVMVLTELMELGPLDSFLRQREGQFSSLQLVAMQR
 GVAAAMQYLSF AFVHRAL SARSVLVNSHLVCKVARLGHSPQGSSLLRWAPEVITHGKYTTSSDVWSF
 GILMWEVMSYGERPYWDMNEQEVLENAIEQEFRLPPPGCPPGLHLLMLDTWQKDRARRPHFDQLVAADF
 MIRKPDTLQAEGGSGDRPSQALLNPVALDFPCLDSPQAWLSAIGLECYQDNFSKFGLSDFSDVAQLSLED
 LPGLGITLAGHQKLLHNIQLLQHLRQPGSVEV

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001146351

ORF Size: 3045 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:

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.

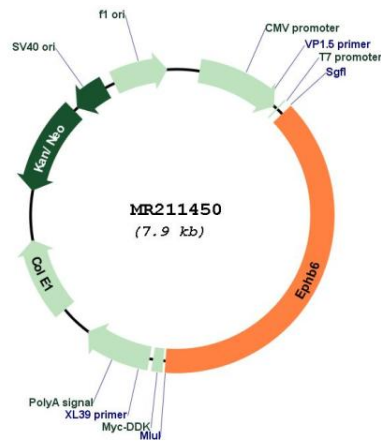
RefSeq: [NM_001146351.1](#), [NP_001139823.1](#)

RefSeq Size: 3760 bp

RefSeq ORF: 3045 bp

Locus ID:	13848
UniProt ID:	O08644
Cytogenetics:	6 B2.1
MW:	110.1 kDa
Gene Summary:	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]

Product images:



Circular map for MR211450