

Product datasheet for **RC239428**

Eph receptor B6 (EPHB6) (NM_001280794) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eph receptor B6 (EPHB6) (NM_001280794) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	EPHB6
Synonyms:	HEP
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide
Sequence:

>RC239428 representing NM_001280794
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTAGCTGTCGGGGCTGCCGCTGCCAGCCTGGATACCAACCAGCACGAGGAGACAAGGCCTGCCAAG
CCTGCCACAGGGGCTCTATAAGGCTTCTGCTGGGAATGCTCCCTGCTCACCATGCCCTGCCCGAGTCA
CGCTCCCAACCCAGCAGCCCCGTTTGGCCCTGCCTGGAGGGTCTACCGGGCCAGTTCGACCCACCA
GAGGCCCTGCACTGGTCTCCATCGGCTCCCGAGGCTTTGGTTTGGAGTGAAGGCTCAGCACTCA
TGCTACACTGGCGCTGCCTCGGAGCTGGGGGTCGAGGGGACCTGCTTTCAATGTCGTGTGCAAGGA
GTGTGAAGGCCGCGAGAACCTGCCAGCGGTGGTGGGGCACTTGTACCCTGCAGGGATGAGGTCCAC
TTCGACCTCGCCAGAGAGGCTGACTGAGAGCCGAGTGTAGTGGGGGACTCCGGGCACACGTACCT
ACATCTTAGAGGTGCAGGCTGTTAATGGGGTGTCTGAGCTCAGCCCTGACCTCCTCAGGCTGCAGCCAT
CAATGTCAGCACCAGCCATGAAGTGCCCTCTGCTGCCCTGTGGTGCACCAGGTGAGCCGGGCATCCAAC
AGCATCACGGTGTCTGGCCGACGCCGACCAGACCAATGGGAACATCCTGGACTATCAGCTCCGCTACT
ATGACCAGGCAGAAGACGAATCCCACTCCTTACCCTGACCAGGAGACCAACACTGCCACCCTGACACA
GCTGAGCCCTGGCCACATCTATGGTTTCCAGGTGCGGGCCCGACTGCTGCCGGCCACGGCCCTACGGG
GGCAAAGTCTATTTCCAGACACTTCTCAAGGGGAGCTGTCTTCCAGCTCCAGAAAGACTCTCCTTGG
TGATCGGCTCCATCCTGGGGGCTTTGGCCCTTCTCCTGCTGGCAGCCATCACCCTGCTGGCGGTGCTT
CCAGCGGAAGCGGCTGGGACTGGCTACACAGAGCAGCTGCAGCAATACAGCAGCCAGGACTCGGGGTG
AAGTATTACATCGACCCCTCCACCTACGAGGACCCCTGTCAGGCCATCCGAGAACTGCCCGGGAAGTGC
ATCCTGCTTATATCAAGATTGAGGAGTCAATGGGACAGGCTCTTTGGAGAAGTGGCCAGGCCGCTG
GCAGCCACGGGGACGGAGGGAGCAGACTGTGGCCATCCAGGCCCTGTGGGCCGGGGCGCCGAAAGCCTG
CAGATGACCTTCTGGGCGGGCCGAGTGTGGGTGAGTTCAGCACCCCAACATCCTGCGGCTGGAGG
GCGTGGTCAACAAGAGCCGACCCCTCATGGTGTGACGGAGTTCATGGAGCTTGGCCCCCTGGACAGCTT
CCTCAGGCAGCGGGAGGGCCAGTTCAGCAGCTGCAGCTGGTGGCCATGCAGCGGGGAGTGGCTGCTGCC
ATGCAGTACCTGTCCAGCTTTCCTTCTGCTCCATCGCTCGCTGCTGCCACAGCGTGTGGTGAATAGCC
ACTTGGTGTGCAAGGTGGCCGCTTGGCCACAGTCTCAGGGCCCAAGTTGTTTGCCTCGCTGGGCAGC
CCCAGAGGTCAATGCACATGGAAGCATACAACATCCAGTGATGTCTGGAGCTTTGGGATACTCATGTGG
GAAGTGTAGATTATGGAGAACGGCCTTACTGGGACATGAGTGCAGGAGGTAATAATGCAATAGAGC
AGGAGTTCGGGCTGCCCGCCTCCAGGCTGTCCCTCCTGGATTACATCTACTTATGTTGGACACTTGGCA
GAAGGACCGTGCCCGGGCCCTCAATTTGACCAGCTGGTGGTGCATTTGACAAGATGATCCGCAAGCCA
GATACCCTGCAGGCTGGCGGGACCCAGGGGAAAGGCCTTCCAGGCCCTTCTGACCCCTGTGGCCCTGG
ACTTTCCTTGTCTGGACTCACCCAGGCTGGCTTTCAGCCATTGGACTGGAGTGTACCAGGACAACCTT
CTCAAGTTTGGCCTCTGTACCTTCAGTGATGTGGCTCAGCTCAGCCTAGAAGACCTGCCTGCCCTGGGC
ATCACCCTGGCTGGCCACCAGAAGAAGCTGCTGCACCACATCCAGCTCCTCAGCAACACCTGAGGCAGC
AGGGCTCAGTGGAGTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239428 representing NM_001280794
 Red=Cloning site Green=Tags(s)

MVAVGGCRCQPGYQPARGDKACQACPRGLYKASAGNAPCSPCPARSHAPNPAAPVPCLEGFYRASSDPP
 EAPCTGPPSAPQELWFEVQGSALMLHWRLPRELGGRDLLFNVVCKECEGRQEPASGGGGTCHRCRDEVH
 FDPQRGLTESRVLVGGRAHVPIYILEVQAVNGVSELSPPDPPQAAAINVSTSHEVPSAVPVVHQVSRASN
 SITVSWPQPDQTNIGNILDYQLRYDQAEDESHSTLTSETNTATVTQLSPGHIYGFQVRARTAAGHPYGG
 GKVYFQTLPGGELSSQLPERLSLVIGSILGALAFLLAAITVLAVVFQRKRRGTGYTEQLQYSSPGLGV
 KYYIDPSTYEDPCQAIARELAREVDPAYIKIEEVIIGTGSFGEVRQGRQPRGRREQTVAIQALWAGGAESL
 QMTFLGRAAVLGGQFQHPNILRLEGVVTKSRLMVLTEFMELGPLDSFLRQREGQFSSLQLVAMQRGVAAA
 MQYLSAFVHRSLSAHSLVNSHLVCKVARLGHSPQGPSCLLRWAAPEVIAHGKHTTSSDVWVSGILMW
 EVMSYGERPYWDMSEQEVLENAIEQEFRLPPPGCPPGLHLLMLDTWQKDRARRPHFDQLVAADFDMIRKP
 DTLQAGGDPGERPSQALLTPVALDFPCLDSPQAWLSAIGLECYQDNFSKFGGLCTFSDVAQLSLEDL PALG
 ITLAGHQKLLHHIQLLQQLRQGSVEV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

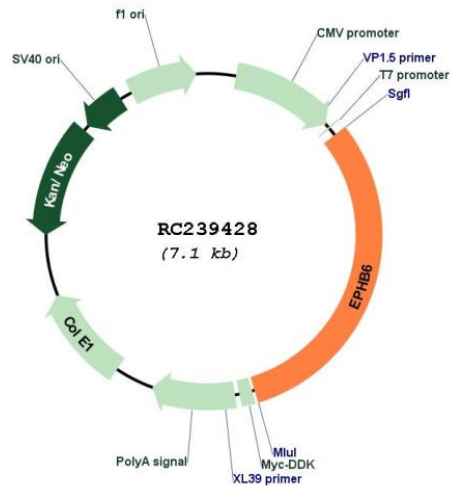
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_001280794

ORF Size: 2187 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_001280794.2](#), [NP_001267723.2](#)

RefSeq Size: 4008 bp

RefSeq ORF: 2190 bp

Locus ID: 2051

Cytogenetics:	7q34
Protein Families:	Druggable Genome, Protein Kinase, Transmembrane
Protein Pathways:	Axon guidance
MW:	80.2 kDa
Gene Summary:	<p>This gene encodes a member of a family of transmembrane proteins that function as receptors for ephrin-B family proteins. Unlike other members of this family, the encoded protein does not contain a functional kinase domain. Activity of this protein can influence cell adhesion and migration. Expression of this gene is downregulated during tumor progression, suggesting that the protein may suppress tumor invasion and metastasis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]</p>