

Product datasheet for **RC239429**

Eph receptor B6 (EPHB6) (NM_001280795) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eph receptor B6 (EPHB6) (NM_001280795) 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:

>RC239429 representing NM_001280795
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGTAGCTGTCGGGGCTGCCGCTGCCAGCCTGGATACCAACCAGCACGAGGAGACAAGGCCTGCCAAG
CCTGCCACAGGGGCTCTATAAGGCTTCTGCTGGGAATGCTCCCTGCTCACCATGCCCTGCCCGAGTCA
CGCTCCCAACCCAGCAGCCCCGTTTGGCCCTGCCTGGAGGGTCTACCGGGCCAGTTCGACCCACCA
GAGGCCCTGCACTGGTCTCCATCGGCTCCCGAGGAGCTTTGGTTTGGAGTGAAGGCTCAGCACTCA
TGCTACACTGGCGCTGCCTCGGAGCTGGGGGTCGAGGGGACCTGCTTTCAATGTCGTGTGCAAGGA
GTGTGAAGGCCGCGAGAACCTGCCAGCGGTGGTGGGGCACTTGTACCCTGCAGGGATGAGGTCCAC
TTCGACCTCGCCAGAGAGGCTGACTGAGAGCCGAGTGTAGTGGGGGACTCCGGGCACACGTACCT
ACATCTTAGAGGTGCAGGCTGTTAATGGGGTGTCTGAGCTCAGCCCTGACCTCCTCAGGCTGCAGCCAT
CAATGTCAGCACCAGCCATGAAGTGCCCTCTGCTGCCCTGTGGTGCACCAGGTGAGCCGGGCATCCAAC
AGCATCACGGTGTCTGGCCGACGCCGACCAGACCAATGGGAACATCCTGGACTATCAGCTCCGCTACT
ATGACCAGGCAGAAGACGAATCCCACTCCTTACCCTGACCAGGAGACCAACACTGCCACCGTGACACA
GCTGAGCCCTGGCCACATCTATGGTTTCCAGGTGCGGGCCCGACTGCTGCCGGCCACGGCCCTACGGG
GGCAAAGTCTATTTCCAGACACTTCTCAAGGGGAGCTGTCTTCCAGCTTCCAGAAAGACTCTCCTTGG
TGATCGGCTCCATCCTGGGGGCTTTGGCCTTCTCCTGCTGGCAGCCATCACCGTGTGGCGGTGCTT
CCAGCGGAAGCGGCGTGGACTGGCTACACAGAGCAGCTGCAGCAATACAGCAGCCAGGACTCGGGGTG
AAGTATTACATCGACCCCTCCACCTACGAGGACCCCTGTCAGGCCATCCGAGAACTTGGCCGGGAAGTCC
ATCCTGCTTATATCAAGATTGAGGAGTCAATGGGACAGGCTCTTTGGAGAAGTGCGCCAGGGCCGCTG
GCAGCCACGGGGACGGAGGGAGCAGACTGTGGCCATCCAGGCCCTGTGGGCCGGGGCGCCGAAAGCCTG
CAGATGACCTTCTGGGCGGGCCGCAGTGCTGGGTGAGTTCAGCACCCCAACATCCTGCGGCTGGAGG
GCGTGGTCAACAAGAGCCGACCCCTCATGGTGTGACGGAGTTCATGGAGCTTGGCCCCCTGGACAGCTT
CCTCAGGCAGCGGGAGGGCCAGTTCAGCAGCTGCAGCTGGTGGCCATGCAGCGGGGAGTGGCTGCTGCC
ATGCAGTACCTGTCCAGCTTTCCTTCTGCTCCATCGCTCGCTGCTGCCACAGCGTGTGGTGAATAGCC
ACTTGGTGTGCAAGGTGGCCGCTTGGCCACAGTCTCAGGGCCCAAGTTGTTTGGTTCGCTGGGCAGC
CCCAGAGGTCAATGCACATGGAAGCATACAACATCCAGTGATGTCTGGAGCTTTGGGATACTCATGTGG
GAAGTGTAGATTATGGAGAACGGCCTTACTGGGACATGAGTGCAGGAGGTAATAATGCAATAGAGC
AGGAGTTCGGGCTGCCCGCCTCCAGGCTGTCCCTCCTGGATTACATCTACTTATGTTGGACACTTGGCA
GAAGGACCGTGCCCGGGCCCTCAATTTGACCAGCTGGTGGCTGCATTTGACAAGATGATCCGCAAGCCA
GATACCCTGCAGGCTGGCGGGACCCAGGGGAAAGGCCTTCCAGGCCCTTCTGACCCCTGTGGCCCTGG
ACTTTCCTTGTCTGGACTCACCCAGGCTGGCTTTCAGCCATTGGACTGGAGTGTACCAGGACAACCTT
CTCCAAGTTTGGCCTCTGTACCTTCAGTGATGTGGCTCAGCTCAGCCTAGAAGACCTGCCTGCCCTGGGC
ATCACCTGGCTGGCCACCAGAAGAAGCTGCTGCACCACATCCAGCTCCTCAGCAACACCTGAGGCAGC
AGGGCTCAGTGGAGTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239429 representing NM_001280795
 Red=Cloning site Green=Tags(s)

MVAVGGCRCQPGYQPARGDKACQACPRGLYKASAGNAPCSPCPARSHAPNPAAPVPCLEGFYRASSDPP
 EAPCTGPPSAPQELWFEVQGSALMLHWRLPRELGGRDLLFNVVCKECEGRQEPASGGGGTCHRCRDEVH
 FDPQRGLTESRVLVGGRAHVPIYLEVQAVNGVSELSPPDPPQAAAINVSTSHVPSAVPVVHQVSRASN
 SITVSWPQPDQTNIGNILDYQLRYDQAEDESHSFTLTSETNTATVTQLSPGHIYGFQVRARTAAGHPYG
 GKVYFQTLPGGELSSQLPERLSLVIGSILGALAFLLAAITVLAVVFQRKRRGTGYTEQLQYSSPGLGV
 KYIIDPSTYEDPCQAIRELAREVDPAYIKIEEVI GTGSFGEVRQGRLQPRGRREQTVAIQALWAGGAESL
 QMTFLGRAAVLGGFQHPNILRLEGVVTKSRLMVLTEFMELGPLDSFLRQREGQFSSLQLVAMQRGVAAA
 MQYLSAFVHRSLSAHSVLVNSHLVCKVARLGHSPQGPSCLLRWAAPEVIAHGKHTTSSDVWSFGILMW
 EVMSYGERPYWDMSEQEVLENAIEQEFRLPPPGCPPGLHLLMLDTWQKDRARRPHFDQLVAADFDMIRKP
 DTLQAGGDPGERPSQALLTPVALDFPCLDSPQAWLSAIGLECYQDNFSKFGGLCTFSDVAQLSLEDLPALG
 ITLAGHQKLLHHIQLLQQLRQGSVEV

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

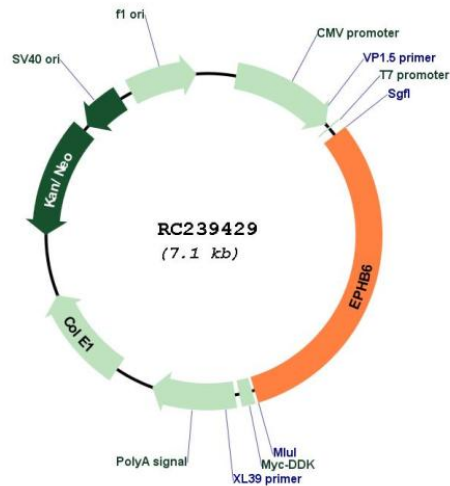
Sgfl-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001280795

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_001280795.2](#), [NP_001267724.2](#)

RefSeq Size: 3380 bp

RefSeq ORF: 2190 bp

Locus ID: 2051

UniProt ID:	<u>O15197</u>
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>