

## Product datasheet for **RG229404**

### Eph receptor B6 (EPHB6) (NM\_004445) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Eph receptor B6 (EPHB6) (NM_004445) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EPHB6
Synonyms:	HEP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG229404 representing NM_004445 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTACTGAAGGGGCTGCCAGTTAGGGAACAGAGTGGCGGGCATGGTGTGTAGCCTATGGGTGCTGC  
TCCTGGTGTCTTCAGTTCTGGCTCTGGAAGAGGTATTGCTGGACACCACCGGAGAGACATCTGAGATTGG  
CTGGCTCACCTACCCACAGGGGGTGGGACGAGGTGAGTGTCTGGACGACCAGCGACGCCTGACTCGG  
ACCTTTGAGGCATGTATGTGGCAGGGGCCCTCCAGGCACCGGGCAGGACAATTGGTTGCAGACACACT  
TTGTGGAGCGGCGGGGCCAGAGGGCGCACATTCGACTCCACTTCTCTGTGCGGGCATGCTCCAGCCT  
GGGTGTGAGCGGCGCACCTGCCGGGAGACCTTACCCTTTACTACCGTCAAGGCTGAGGAGCCCGACAGC  
CCTGACAGCGTTTCTCCTGGCACCTCAAACGCTGGACCAAGGTGGACACAATTGCAGCAGACGAGAGCT  
TTCCCT  
GCAGCGGGCTGGACTGCAACTGAACGTCAAAGAGCGGAGCTTTGGGCCTCTACCCAACGCGGCTTCTAC  
GTGGCCTTCCAGGACACGGGGCCTGCCTGGCCCTGGTCGCTGTCAGGCTTCTCCTACACCTGCCCTG  
CCGTGCTCCGATCCTTTGCTTCTTTCCAGAGACGAGCCAGTGGGCTGGGGGGCCTCCCTGGTGCC  
AGCTGTGGCACCTGTGTGGCTCATGCAGAGCCAGAGGAGGATGGAGTAGGGGGCCAGGCAGGAGGCAGC  
CCCCCAGGCTGCACGCAACGGGGAGGGCAAGTGGATGGTAGCTGTCGGGGGCTGCCGCTGCCAGCCTG  
GATACCAACCAGCACGAGGAGACAAGGCCTGCCAAGCCTGCCACGGGGGCTCTATAAGTCTTCTGCTGG  
GAATGCTCCCTGCTCACCATGCCCTGCCCGCAGTCACGCTCCCAACCCAGCAGCCCCGTTTGCCCTGC  
CTGGAGGGCTTCTACCGGCCAGTTCGACCCACCAGAGGCCCTGCACTGGTCTCCATCGGCTCCCC  
AGGAGCTTTGGTTGAGGTGCAAGGCTCAGCACTCATGTACACTGGCGCCTGCCTCGGGAGCTGGGGG  
TCGAGGGGACCTGCTCTCAATGTCGTGTGCAAGGAGTGTGAAGGCCGCCAGGAACCTGCCAGCGGTGGT  
GGGGGCACTTGTACCGCTGCAGGGATGAGGTCCACTTCGACCCTCGCCAGAGAGCCTGACTGAGAGCC  
GAGTGTTAGTGGGGGACTCCGGGCACAGTACCCTACATCTTAGAGGTGCAGGCTGTTAATGGGGTGC  
TGAGCTCAGCCCTGACCCTCCTCAGGCTGCAGCCATCAATGTCAGCACCAGCCATGAAGTGCCTCCTGCT



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GTCCCTGTGGTGACCAGGTGAGCCGGGCATCCAACAGCATCACGGTGTCTGGCCGAGCCCGACCAGA  
 CCAATGGGAACATCCTGGACTATCAGCTCCGCTACTATGACCAGGCAGAAGACGAATCCCACTCCTTAC  
 CCTGACCAGCGAGACCAACTGCCACCGTGACACAGCTGAGCCCTGGCCACATCTATGGTTTCCAGGTG  
 CGGGCCCGGACTGCTGCCGGCCACGGCCCTACGGGGGCAAAGTCTATTTCCAGACACTTCTCAAGGGG  
 AGCTGTCTTCCAGCTTCCGAAAGACTCTCTTGGTGATCGGCTCCATCCTGGGGGCTTGGCCTTCT  
 CCTGCTGGCAGCCATCACCGTCTGGCGGTGCTCTTCCAGCGGAAGCGGGCTGGGACTGGCTACACGGAG  
 CAGCTGCAGCAATACAGCAGCCAGGACTCGGGGTGAAGTATTACATCGACCCCTCCACCTACGAGGACC  
 CCTGTGAGGCCATCCGAGAACTTGCCCGGGAAGTCGATCCTGCTTATATCAAGATTGAGGAGGTCATTGG  
 GACAGGCTCTTTGGAGAAGTGCCGACGGGCGCCTGCAGCCACGGGGACGGAGGGAGCAGACTGTGGCC  
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 GTCAGTTCAGCACCCCAACATCCTGCGGCTGGAGGGCTGGTACCAAGAGCCGACCCCTCATGGTGT  
 GACGGAGTTCATGGAGCTTGGCCCTGGACAGCTTCTCAGGCAGCGGGAGGGCCAGTTCAGCAGCCTG  
 CAGCTGGTGGCCATGCAGCGGGAGTGGCTGCTGCCATGCAGTACCTGTCCAGCTTTCCTTCGTCATC  
 GCTCGCTGTGCCCCACAGCGTGTGGTGAATAGCCACTTGGTGTCAAGGTGGCCCGTCTTGGCCACAG  
 TCCTCAGGGCCCAAGTTGTTGCTTCGCTGGGCAGCCCCAGAGGTCATTGCACATGGAAAGCATAACA  
 TCCAGTGATGTCTGGAGCTTGGGATACTCATGTGGGAAGTGATGAGTTATGGAGAACGGCCTTACTGGG  
 ACATGAGTGAGCAGGAGTACTAAATGCAATAGAGCAGGAGTTCGGCTGCCCCCGCCTCCAGGCTGTCC  
 TCTGGATTACATCTACTTATGTTGGACTTGGCAGAAGGACCGTGCCCGGCGGCCTATTTTGACCAG  
 CTGGTGGCTGCATTTGACAAGATGATCCGAAGCCAGATACCCTGCAGGCTGGCGGGGACCCAGGGGAAA  
 GGCCTTCCAGGCCCTTCTGACCCTGTGGCCCTGGACTTTCCTGTCTGGACTCACCCAGGCCTGGCT  
 TTCAGCCATTGGACTGGAGTGTACCAGGACAACCTTCTCAAGTTTGGCCTCTGTACCTCAGTGATGTG  
 GCTCAGCTCAGCTAGAAGACCTGCCTGCCCTGGGCATCACCTGGCTGGCCACCAGAAGAAGCTGCTGC  
 ACCACATCCAGCTCCTTCAGCAACACTGAGGCAGCAGGGCTCAGTGGAGGTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG229404 representing NM\_004445  
 Red=Cloning site Green=Tags(s)

MATEGAAQLGNRVAGMVCSLVWLLLVS SVLAL EEVLLD TTGETSEIGWLTYPGGWDEVSVLDDQRRLTR  
 TFEACHVAGAPPGTGQDNWLQTHFVERRGAQRAHIRLHFSVRACSSLGVSGGTCRETFTLYRQAEPPDS  
 PDSVSSWHLKRWTKVDIAADESFPSSSSSSSSSAAWAVGPHGAGQRAGLQLNVKERSFGPLTQRGFY  
 VAFQDTGACLALVAVRLF SYTCPAVLRSFASF PETQASGAGGASLVA AVGTCVAHA EPEEDGVGGQAGGS  
 PPRLHCNGEGKWMVAVGGCRCQPGYQPARGDKACQACPRGLYKSSAGNAPCSPCPARSHAPNPAAPVPCP  
 LEGFYRASSDPPEAPCTGPPSAPQELWFEVQGSALMLHWRLPRELGGRGDLLFNVVCKECEGRQEPASGG  
 GGTCHRCRDEVHFDPQRGLTESRVLVGLRAHVPIILEVQAVNGVSELSPDPPQAAA INVST SHEVPSA  
 VPVVHQVSRASNSITVSWPQPDQTNGNILDYQLRYYDQAEDESHSFTLTSETNTATVTQLSPGHIYGFQV  
 RARTAAGHGPYGGKVFYQTL PQGELSSQLPERLSLVIGSILGALAFLLAAITVLAVVFQRKRRGTGYTE  
 QLQYSSPGLGVKYYIDPSTYEDPCQAIARELAREVDPAYIKIEEVIGTGSFGEVRQRLQPRGRREQTVA  
 IQALWAGGAESLQMTFLGRAAVLQGFQHPNILRLEGVVTKSRPLMVLTEFMELGPLDSFLRQREGQFSSL  
 QLVAMQRGVAAAMQYLSFAFVHRSLSAHSVLVNSHLVCKVARLGHSPQGPSCLLRWAPEVIAHGKHTT  
 SSDVWSFGILMWEVMSYGERPYWDMSEQEVLN AIEQEFRLPPPGCPPGLHLLMLDWTQKDRARRPHFDQ  
 LVAAFDKMIRKPDTLQAGGDPGERPSQALLTPVALDFPCLDSPQAWLSAIGLECYQDNFSKFGLCFTFSDV  
 AQLSLEDLPALGITLAGHQKLLHHIQLLQQHLRQQGSVEV

TRTRPLE – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI



<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>	<a href="#">NM_004445.3</a> , <a href="#">NP_004436.2</a>
<b>RefSeq Size:</b>	4059 bp
<b>RefSeq ORF:</b>	3069 bp
<b>Locus ID:</b>	2051
<b>UniProt ID:</b>	<a href="#">O15197</a>
<b>Cytogenetics:</b>	7q34
<b>Domains:</b>	pkinase, EPH_Ibd, TyrKc, SAM, S_TKc, FN3
<b>Protein Families:</b>	Druggable Genome, Protein Kinase, Transmembrane
<b>Protein Pathways:</b>	Axon guidance
<b>Gene Summary:</b>	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]