

## Product datasheet for **MG211450**

### Ephb6 (NM\_007680) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ephb6 (NM_007680) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ephb6
Synonyms:	Cekl; Mep
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG211450 representing NM_007680 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTACTGAGGGCAGCACTGGCTCAGGGAGCAGAGTGGTGGCGGGCATGGTGTGCAGTCTGTGGCTCC  
TGGTTCTAGGGTCATCAGTTCTAGCTCTGGAAGAGGTGCTGCTGGATACACAGGAGAGACCTCTGAGAT  
TGGCTGGCTCACCTACCCGCCAGGTGGTGGGATGAGGTGAGTGTCTAGATGACCAGCGCCGTCTGACT  
CGGACCTCGAAGCATGCCACGTTGCAGGGCTCCCTCCTGGTTCTGGCCAGGACAATTGGCTGCAGACAC  
ACTTTGTGAACGCGAGGGGCCAGAGGGCACACATCCGCCTTCACTTCTCTGTACGAGCTGTTCCAG  
CCTGGGTGTGAGTGGGGTACCTGCCGAGAGACCTTACCCTTTACTACCGGCAGGCTGATGAGCCAGAC  
GGCCCCGACAGTATTGCGGCCTGGCACCTCAAACGCTGGACCAAAGTGGACACAATTGCCGAGATGAGA  
GCTTCCCTGCCTCCTCTTCTCTTCTCATGGGCTGTGGGACCCACAGGACCGGTGAGCGGGTGGGACT  
GCAGCTGAATGTCAAAGAGCGCAGCTTTGGTCTCTCACTCAGCGTGGCTTCTATGTGGCCTTCCAGGAC  
ACAGGGGCTGCCTGGCCCTTGTGGCAGTCAAGCTTCTCTACACCTGTCCCTCCGTCTGCGTGCT  
TTGCCTCTTTTCTGAGACACAGGCCAGTGGAGCTGGAGGGGCTCCTTAGTGGCAGCTGTGGGCACCTG  
TGTAATGGCGAAGGCAGGTGGATGGTAGCTGTGGGAGGCTGCCGCTGCCAGCTGGACACCAGCCTGCTC  
GTGGAGACAAGCTCTGCCAAGCCTGCCCTGAGGGATCCTATAAGGCCCTGGCTGGGAATGTTCCCTGTTT  
ACCGTGTCCAGCCGACCCACTCCCCTGACCCTGCAGCCCCAGTTTGCCCATGTCTCCAAGCTTCTAC  
AGGGCCAGTTCGGACCCACCAGAGGCTCCCTGCACTGGTCTCCATCGGCTCCCCGGGAGCTATGGTTTG  
AGGTGCAAGGCTCGGCACTCATGCTGCACTGGCGTCTGCCTCAGGAGCTGGGTGGACGAGGGGATCTGCT  
CTTCAATGTTGTGCAAGGAGTGTGGAGTGCAGGAGAGCCAGCAGTGGGGGATGTGTCGCCGCTGC  
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GAGCACACGTGCCATACATCTTGAAGTGCAGGCTGTCAATGGGGTGTCTGAGCTCAGCCCTGACCTCC  
CCAGGCAGCAGCCATCAATGTCAGCACCAGCCACGAAGTCCCTTCTGCAGTCCCTGTGATGCACCAGGTG



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AGCCGGGCGACCAACAGCATCACAGTATCCTGGCCACAGCCTGAGCAAACAAATGGGAACATCCTCGACT  
 ACCAGTGCCTACTATGACCAGGCAGAAGATGAATCCCCTCCTTACCAGTACCAGTGCAGCAACAC  
 TGCCACTGTGACACGGTTGACCCCTGGCCACATCTATGGCTTCCAGGTGCGGGCACGGACTGCAGCTGGC  
 CACGGCCCTATGGGGGCAAAGTCTATTTTCAGACATTGCCTCAAGGTGAGCTGTCTCCAGCTTCCAG  
 AGAAGTGTCTTGGTGATTGGTTCCATCCTGGGGCCTTGGCCTTCTTCTACTGGCAGCCATCACTGT  
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 TTGCTCGAGAGGTTGACCCTACATATATCAAGATTGAAGAAGTCAATGGGGCAGGTTCTTTGGAGAAGT  
 GCGTGGGGCCGACTGCAACCCCGGGAAGGAGGAACAAGCTGTGGCTATCCAGGCCTTGTGGGAGGG  
 GGTGCTGAGAGCCTGAAGATGACCTTCTGGTGGGCGAGCAGTCTGGGCCAGTCCAGCACCCCAATA  
 TCCTGCGGCTGGAAGGTGTAGTCACTAAGAGTGGCCTGTATGGTGTGACAGAACTCATGGAAGTGG  
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 GGTGTGGTGTGCCATGCAGTACTTGTCCAGCTTGCCTTGTTCACCGAGCACTCTCGGCCGAAGTG  
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 GCTTCGCTGGGCAGCCCCAGAGGTCATTACACATGGAAGTATAACAATCTAGCGATGTCTGGAGCTTT  
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 GCTAGACACTTGGCAGAAGGACCGTGCCTCGGCCTCATTTTGACCAGCTGGTAGCTGCATTTGACAAG  
 ATGATTCGCAAGCCTGATACTCTCCAGGCTGAAGGGGGCTCCGGGGACAGGCCTTCCAGGCTCTTCTGA  
 ACCCTGTGGCCTTGGACTTCCCTTGCCTGGACTCTCCCGAGCCTGGCTTTCAGCCATTGGACTAGAGTG  
 CTACCAGGACAATTCTCAAGTTTGGTCTTCCACCTCAGTGATGTGGCTCAGCTCAGCCTGGAAGAC  
 CTGCCAGGCTGGGCATCACCTAGCTGGCCACCAGAAGAACTTCTGCACAACATTAGCTCCTCCAGC  
 AGCACCTGAGGCAGCCAGGCTCAGTGAAGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG211450 representing NM\_007680  
 Red=Cloning site Green=Tags(s)

MATEGTTGSGSRVAVGMVCSLWLLVLGSSVLALIEVLLDTTGETSEIGWLTYPGGWDEVSLDDQRRRLT  
 RTFEACHVAGLPPGSGQDNWLQTHFVERRGAQRAHIRLHFVSRACSSSLGVSOGTCREFTFLYYRQADEPD  
 GPDSIAAWHLKRWTQVDTIAADESFPASSSSSSWAVGPHRTGQRVGLQLNVKERSFGLTQRGFYVAFQD  
 TGACLALVAVKLFYTCPSVLRFAFSPETQASGAGGASLVAAVGTVAHAPEEDGVGGQAGGSPRLH  
 CNGEGRWMVAVGGCRCQPGHQPARQDKLQACPEGSYKALAGNVPCSPCARSHPDPAAPVCPCLQGFY  
 RASSDPPEAPCTGPPSAPRELWFEVQGSALMLHWRLPQELGGRGDLLFNVVCKECCGGHGEPSGGMCRRR  
 RDEVHFDPRQRLTESRVLVGLRAHVPYILEVQAVNGVSELSPPDPPQAAAINVSTSHVPSAVPVMHQV  
 SRAANSITVSWPQPEQTNGNILDYQLRYDQAEDESHSF TMTSETNTATVTRLTPGHIYGFQVRARTAAG  
 HGPYGGKYYFQTL PQGELSSQLPEKLSLVIGSILGALFLLLAITVLAVIFQRKRRGTGYTEQLQQYSS  
 PGLGVKYYIDPSTYDDPCQAIRELAREVDPTYIKIEEVI GAGSFGVRRGRLQPRGRREQAVAIQALWAG  
 GAESLKMFTLGRAALLGQFQHPNLRLEGVVTKSRPVMVLTLMELGPLDSEFLRQREGQFSSLQLVAMQR  
 GVAAAMQYLSAFVHRALSARSVLVNSHLVCKVARLGHSPQGSSLLRWAPEVITHGKYTTSSDVSF  
 GILMWEVMSYGERPYWDMNEQEVNAIEQEFRLPPPGCPPGLHLLMLDTWQKDRARRPHFDQLVAADF  
 MIRKPDTLQAEAGGSDRPSQALLNPVALDFPCLDSPAQLSAIGLECYQDNFSKFGLSDFSDVAQLSLED  
 LPGLGITLAGHQKLLHNIQLLQHLRQPGSVEV

TRTRPLE - GFP Tag - V

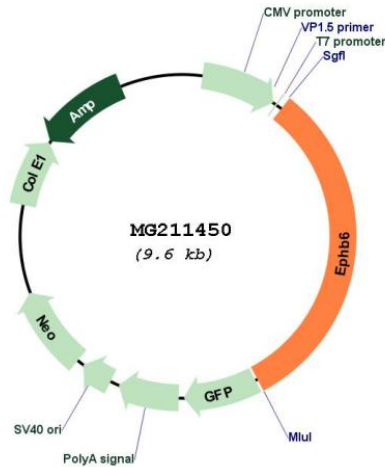
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_007680

ORF Size: 3753 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](#)

<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>	<u><a href="#">NM_007680.2</a></u>
<b>RefSeq Size:</b>	3666 bp
<b>RefSeq ORF:</b>	3045 bp
<b>Locus ID:</b>	13848
<b>UniProt ID:</b>	<u><a href="#">O08644</a></u>
<b>Cytogenetics:</b>	6 B2.1
<b>Gene Summary:</b>	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]