

Product datasheet for **MG226856**

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:	>MG226856 representing NM_007680 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTACTGAGGGCAGCACTGGCTCAGGGAGCAGAGTGGTGCCGGGCATGGTGTGCAGTCTGTGGCTCC
TGGTTCTAGGGTCATCAGTTCTAGCTCTGGAAGAGGTGCTGCTGGATACACAGGAGAGACCTCTGAGAT
TGGCTGGCTCACCTACCCGCCAGGTGGTGGGATGAGGTGAGTGTCTAGATGACCAGCGCCGTCTGACT
CGGACCTCGAAGCATGCCACGTTGCAGGGCTCCCTCCTGGTTCTGGCCAGGACAATTGGCTGCAGACAC
ACTTTGTGGAACGCGAGGGGCCAGAGGGCAGACATCCGCCTTCACTTCTCTGTACGAGCTGTTCCAG
CCTGGGTGTGAGTGGGGTACCTGCCGAGAGACCTTACCTTTACTACCGGCAGGCTGATGAGCCAGAC
GGCCCCGACAGTATTGCGCCTGGCACCTCAAACGCTGGACCAAAGTGGACACAATTGCCGAGATGAGA
GCTTCCCTGCCTCCTTCTCCTCATGGGCTGTGGGACCCACAGGACCGGTGAGCGGGTGGGACT
GCAGCTGAATGTCAAAGAGCGCAGCTTTGGTCTCTCACTCAGCGTGGCTTCTATGTGGCCTTCCAGGAC
ACAGGGGCTGCCTGGCCCTTGTGGCAGTCAAGCTTCTCCTACACCTGTCCCTCCGTCTGCCTGGCT
TTGCCTCTTTTCTGAGACACAGGCCAGTGGAGCTGGAGGGGCTCCTTAGTGGCAGCTGTGGGCACCTG
TGTAATGGCGAAGGCAGGTGGATGGTAGCTGTGGGAGGCTGCCGCTGCCAGCTGGACACCAGCCTGCTC
GTGGAGACAAGCTCTGCCAAGCCTGCCCTGAGGGATCCTATAAGGCCCTGGCTGGGAATGTTCCCTGTTT
ACCGTGTCCAGCCGACCCACTCCCCTGACCCTGCAGCCCCAGTTTGCCCATGTCTCCAAGCTTCTAC
AGGGCCAGTTCGGACCCACCAGAGGCTCCCTGCACTGGTCTCCATCGGCTCCCCGGGAGCTATGGTTTG
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AGCCGGGCGACCAACAGCATCACAGTATCCTGGCCACAGCCTGAGCAAACAAATGGGAACATCCTCGACT
 ACCAGTGCCTACTATGACCAGGCAGAAGATGAATCCCCTCCTTACCAGTACAGGAGACCAACAC
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 TCCTGCGGCTGGAAGGTGTAGTCACTAAGAGTGGCCTGTCTGGTGTGACAGAAGTCAAGACTTGG
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 ACCCTGTGGCCTTGGACTTCCCTTGCTGGACTCTCCAGGCTGGCTTTCAGCCATTGGACTAGAGTG
 CTACCAGGACAATTCTCAAGTTTGGTCTTCCACCTCAGTGATGTGGCTCAGCTCAGCTGGAAGAC
 CTGCCAGGCTGGGCATCACCTAGCTGGCCACCAGAAGAACTTCTGCACAACATTCAGCTCCTCCAGC
 AGCACCTGAGGCAGCCAGGCTCAGTGAAGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG226856 representing NM_007680
 Red=Cloning site Green=Tags(s)

MATEGTTGSGSRVAVGMVCSLWLLVLGSSVLALAEVLLDITGETSEIGWLTYPGGWDEVSVLDDQRRRLT
 RTFEACHVAGLPPGSGQDNWLQTHFVERRGAQRAHIRLHFVSRACSSLVSGGTCRETFLLYYRQADEPD
 GPDSIAAWHLKRWTQVDTIAADESFPASSSSSSWAVGPHRTGQRVGLQLNVKERSFGPLTQRGFYVAFQD
 TGACLALVAVKLFSYTCPSVLRAFASFQASGAGGASLVAAVGTCVAHAPEEDGVGGQAGGSPRLH
 CNGEGRWMVAVGGCRCQPGHQPARQDKLQACPEGSYKALAGNVPCSPCPARSHSPDPAAPVCPCLQGFY
 RASSDPPEAPCTGPPSAPRELWFEVQGSALMLHWRLPQELGGRDILLFNVVCKECCGGHGEPSGGMCRRR
 RDEVHFDPRQRLTESRVLVGLRAHVPILEVQAVNGVSELSPDPPQAAAINVSTSHVPSAVPVMHQV
 SRAANSITVSWPQPEQTNGNILDYQLRYDQAEDESHSTMTSETNTATVTRLTPGHIYGFQVRARTAAG
 HGPYGGKYYFQTL PQGELSSQLPEKLSLVIGSILGALFLLLAITVLAVIFQRKRRGTGYTEQLQYSS
 PGLGVKYYIDPSTYDDPCQAIRELAREVDPTYIKIEEVIAGSFGVRRGRLQPRGRREQAVAIQALWAG
 GAESLKMFTLGRAALLGQFQHPNLRLEGVVTKSRPVMVLTLMELGPLDSFLRQREGQFSSLQLVAMQR
 GVAAAMQYVLSFAFVHRALSARSVLVNSHLVCKVARLGHSPQGSSLLRWAPEVITHGKYTTSSDVSF
 GILMWEVMSYGERPYWDMNEQEVNAIEQEFRLLPPPQPPGLHLLMLDWTQKDRARRPHFDQLVAADF
 MIRKPDTLQAEGSGDRPSQALLNPVALDFPCLDSPQAWLSAIGLECYQDNFSKFGLSDFSDVAQLSLED
 LPGLGITLAGHQKLLHNIQLLQHLRQPGSVEV

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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:	<ol style="list-style-type: none">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:	<u>NM_007680.4</u> , <u>NP_031706.3</u>
RefSeq Size:	3756 bp
RefSeq ORF:	3045 bp
Locus ID:	13848
UniProt ID:	<u>O08644</u>
Cytogenetics:	6 B2.1
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]