

Product datasheet for **SC117357**

Eph receptor B4 (EPHB4) (NM_004444) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eph receptor B4 (EPHB4) (NM_004444) Human Untagged Clone
Tag:	Tag Free
Symbol:	Eph receptor B4
Synonyms:	CMAVM2; HFASD; HTK; LMPHM7; MYK1; TYRO11
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene ORF sequence for NM_004444 edited
ATGGAGCTCCGGGTGCTGCTCTGCTGGGCTTCGTTGGCCGACGCTTTGGAAGAGACCCTG
CTGAACACAAAATTGAAACTGCTGATCTGAAGTGGGTGACATTCCTCAGGTGGACGGG
CAGTGGGAGGAACTGAGCGGCCTGGATGAGGAACAGCACAGCGTGCACCTACGAAAGTG
TGTGACGTGCAGCGTGCCCCGGCCAGGCCACTGGCTTCGCACAGGTTGGGTCCCACGG
CGGGCGCCGTCACAGTGTACGCCACGCTGCGCTTCACCATGCTCGAGTGCCTGTCCCTG
CCTCGGGCTGGCGCTCCTGCAAGGAGACCTTACCCTTCTACTATGAGAGCGATGCG
GACACGGCCACGGCCCTACGCCAGCCTGGATGGAGAACCCTACATCAAGGTGGACACG
GTGGCCGCGGAGCATCTACCCGGAAGCGCCCTGGGGCCGAGGCCACCGGAAGGTGAAT
GTCAAGACGCTGCGTCTGGGACCCTCAGCAAGGCTGGCTTCTACCTGGCCTTCCAGGAC
CAGGGTGCCTGCATGGCCCTGCTATCCCTGCACCTCTTCTACAAAAAGTGCGCCAGCTG
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GGTAGCTGCGTGGTGGATGCCGTCCCCGCCCTGGCCCCAGCCCAGCCTCTACTGCCGT
GAGGATGGCCAGTGGGCCAACAGCCGGTACGGGCTGCAGCTGTCTCCGGGGTTCGAG
GCAGCTGAGGGGAACACCAAGTCCGAGCCTGTGCCAGGGCACCTTCAAGCCCCGTCA
GGAGAAGGGTCTGCCAGCCATGCCAGCCAATAGCCACTCTAACACCATTGGATCAGCC
GTCTGCCAGTGCCTGCGGTACTTCCGGGCACGCACAGACCCCGGGGTGCACCTGC
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ACCTATACCTTTGAGTCACTGCATTGAACGGGTATCCTCCTTAGCCACGGGGCCCGTC
CCATTTGAGCCTGTCAATGTCAACACTGACCCAGAGGACTCCTCCTGCAGTGTCTGACATC
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ATTGCGGGCACGGCAGTCTGGGTGTGGTCTGGTCTGGTGGTCTGGTGGTCTGGTGGTGGT
CTCTGCCCTCAGGAAGCAGAGCAATGGGAGAGAAGCAGAATATTCGACAAAACACGGACAG
TATCTCATCGGACATGGTACTAAGTCTACATCGACCCCTTCACTTATGAAGACCCTAAT
GAGGCTGTGAGGGAATTTGCAAAAGAGATCGATGTCTCCTACGTCGAAGATTGAAGAGGTG
ATTGGTGCAGGTGAGTTTGGCGAGGTGTGTGCGGGGCGGCTCAAGGCCCCAGGGAAGAAG
GAGAGCTGTGTGGCAATCAAGACCCTGAAGGGTGGCTACACGGAGCGGCAGCGGGCTGAG
TTTCTGAGCGAGGCTCCATCATGGGCCAGTTCGAGCACCCCAATATCATCCGCCTGGAG
GGCGTGGTCAACACAGCATGCCCGTATGATTCTCACAGAGTTCATGGAGAACGGCGCC
CTGGACTCCTTCTGCGGCTAACGACGGACAGTTCACAGTATCCAGCTCGTGGCATG
CTGGCGGGCATCGCCTCGGGCATGCGGTACCTTGCCGAGATGAGCTACGTCACCCAGAC
CTGGCTGCTCGCAACATCCTAGTCAACAGCAACCTCGTCTGCAAAGTGTCTGACTTTGGC
CTTTCCCGATTCTGGAGGAGAAGTCTTCCGATCCCACCTACACGAGCTCCCTGGGAGGA
AAGATTCCATCCGATGGACTGCCCGGAGGCCATTGCCTTCCGGAAGTCACTTCCGCC
AGTGATGCCTGGAGTTACGGATTGTGATGTGGGAGGTGATGTCATTTGGGGAGAGGCCG
TACTGGGACATGAGCAATCAGGACGTGATCAATGCCATTGAACAGGACTACCGGTGCC
CCGCCCCAGACTGTCCACCTCCCTCCACCAGCTCATGCTGGACTGTTGGCAGAAAAGAC
CGGAATGCCCGGGCCCGTTCGCCAGGTGGTACGCGCCCTGGACAAGATGATCCGGAAC
CCCGCCAGCCTCAAATCGTGGCCCGGAGAATGGCGGGCCTCACACCCTCTCCTGGAC
CAGCGGCAGCCTCACTACTCAGCTTTTGGCTCTGTGGCGAGTGGCTTCGGGCCATCAA
ATGGGAAGATACGAAGAAAGTTTCGACAGCCGCTGGCTTTGGCTCCTTCGAGCTGGTCAGC
CAGATCTCTGCTGAGGACCTGCTCCGAATCGGAGTCACTCTGGCGGGACACCAGAAGAAA
ATCTTGGCCAGTGTCCAGCACATGAAGTCCCAGGCCAAGCCGGGAACCCCGGGTGGGACA
GGAGGACCGGCCCGCAGTACTGA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_004444 unedited CATATTCGCCCGCCGTTGCCGCAAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAG CAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCGC GAATCGGCACGAGGCCCGGTGCCCGCACGCTCGCATGGGCCCGCGTGAAGGCCCCGAC GAGGAGTCCCAGCGGAGTATCGGCGTCCACCCGCCAGGGAGAGTCAGACCTGGGGGGG CGAGGGCCCCCAAACCTCAGTTCGGATCCTACCCGAGTGAGGCGGCCATGGAGCTCCG GGTGTGCTCTGCTGGGCTTCGTTGGCCGAGCTTTGGAAGAGACCCTGCTGAACACAAA ATTGAAAACCTGCTGATCTGAAGTGGGTGACATTCCTCAGGTGGACGGGAGTGGGAGGA ACTGAGCGGCTGGATGAGGAACAGCACAGCGTGCACACCTACGAAGTGTGTGACGTGCA GCGTGCCCCGGGCCAGGCCACTGGCTTCGCACAGGTTGGGTCCCACGGCGGGGCGCCGT CCACGTGTACGCCACGCTGCGCTTACCATGCTCGAGTGCCTGTCCCTGCCTCGGCTGG GCGCTCTGCAAGGAGACCTTACCCTTCTACTATGAGAGCGATGCGGACACGGCCAC GGCCCTCAGCCAGCCTGGATGGAGAACCCTACATCAAGGTGGACACGGTGGCCCGGA GCATCTCACCCGAAAGCGCCCTGGGCCGAGCCACGGGAAGGTGAATGTCAAGACGCT GCGTCTGGGACCGCTCAGCAAGCTGGCTTCTACCTGGNCTTCCAGACCAGGTGCCTGCA TGCCCTGCTATNCTGCACCTCTCTACAAAAGTGGCCAGCTGACTGTGAAACTGAC TCGATTCGCCGAGACTGGGCTCGGGAGCTGGTGC
Restriction Sites:	NotI-NotI
ACCN:	NM_004444
Insert Size:	4700 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	NM_004444.4 , NP_004435.3
RefSeq Size:	4369 bp
RefSeq ORF:	2964 bp
Locus ID:	2050
UniProt ID:	P54760
Cytogenetics:	7q22.1
Domains:	pkinase, EPH_lbd, TyrKc, SAM, S_TKc, FN3
Protein Families:	Druggable Genome, Protein Kinase, Transmembrane

Protein Pathways: Axon guidance

Gene Summary: Ephrin receptors and their ligands, the ephrins, mediate numerous developmental processes, particularly in the nervous system. Based on their structures and sequence relationships, ephrins are divided into the ephrin-A (EFNA) class, which are anchored to the membrane by a glycosylphosphatidylinositol linkage, and the ephrin-B (EFNB) class, which are transmembrane proteins. The Eph family of receptors are divided into 2 groups based on the similarity of their extracellular domain sequences and their affinities for binding ephrin-A and ephrin-B ligands. Ephrin receptors make up the largest subgroup of the receptor tyrosine kinase (RTK) family. The protein encoded by this gene binds to ephrin-B2 and plays an essential role in vascular development. [provided by RefSeq, Jul 2008]