

Product datasheet for **RG208559**

Eph receptor B4 (EPHB4) (NM_004444) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eph receptor B4 (EPHB4) (NM_004444) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Eph receptor B4
Synonyms:	CMAVM2; HFASD; HTK; LMPHM7; MYK1; TYRO11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG208559 representing NM_004444
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGCTCCGGGTGCTGCTCTGCTGGGCTTCGTTGGCCGACGCTTTGGAAGAGACCCTGCTGAACACAA
 AATTGGAAACTGCTGATCTGAAGTGGGTGACATTCCTCAGGTGGACGGGACGTGGGAGGAACTGAGCGG
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 CACTGGCTTCGCACAGGTTGGGTCCCACGGCGGGGCGCGTCCACGTGTACGCCACGCTGCGCTTACCA
 TGCTCGAGTGCCTGTCCCTGCCTCGGGTGGGCGCTCCTGCAAGGAGACCTTACCCTTCTACTATGA
 GAGCGATGCGGACACGGCCACGGCCCTCACGCCAGCTGGATGGAGAACCCTACATCAAGTGGACACG
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 GTGCCTCGGGAGCTGTTGTGCCCGTGGCCGGTAGCTGCGTGGTGGATGCCGTCCCCGCCCTGGCCCCA
 GCCCAGCCTCTACTGCCGTGAGGATGGCCAGTGGGCCGAACAGCCGGTACGGGCTGCAGCTGTGCTCC
 GGGTTCGAGGCAGCTGAGGGGAACACCAAGTGGCCAGCCTGTGCCCAGGGCACCTTCAAGCCCCTGTCA
 GGAGAAGGGTCTGCCAGCCATGCCAGCCAATAGCCACTTAACACCATTGGATCAGCCGTCTGCCAGT
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 CCGCCTGGAGGGCGTGGTACCAACAGCATGCCGTCATGATTCTCACAGAGTTCATGGAGAACGGCGCC
 CTGGACTCCTTCTGCGGCTAACGACGGACAGTTCACAGTATCCAGCTCGTGGCATGCTGCGGGGCA
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 GGCCCCGCTTCCCCAGGTGGTCAAGCCCTGGACAAGATGATCCGGAACCCCGCCAGCCTCAAATCGT
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 GCTCCTTCGAGCTGGTCAAGCAGATCTCTGCTGAGGACCTGCTCCGAATCGGAGTCACTCTGGCGGACA
 CCAGAAGAAAATCTTGGCCAGTGTCCAGCACATGAAGTCCAGGCCAAGCCGGGAACCCCGGTGGGACA
 GGAGGACCGGCCCGCAGTAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG208559 representing NM_004444
 Red=Cloning site Green=Tags(s)

MELRVLLCWASLAAALEETLLNTKLETADLKWVTFPQVDGQWEELSGLDEEQHSVRTYEVCVQVQAPGQA
 HWLRTGWVPRRGAVHVYATLRFMTLECLSLPRAGRSCKETFTVFYVESDADTATALTPAWMENPYIKVDT
 VAAEHLTRKRPGAEATGKVNKTLRLGPLSKAGFYLAHQDQACMALLSLHLFYKKAQLTVNLTRFPET
 VPRELVPVAVAGSCVVDVAVPAPGSPSLYCREDDGQWAEQPVTCSCAPGFEEAAEGNTKCRACAQGTFKPLS
 GEGSCQPCPANSNTIGSAVCQCRVGYFRARTDPRGAPCTTPPSAPRSVVSRLNGSSLHLEWSAPLESG
 GREDLTYALRCRECRPGGSCAPCGDLTFDPGPRDLVEPVVVVRLRPDFTYTFEVTALNGVSSLATGPV
 PFEPVNVTTDREVPVAVSDIRVTRSSPSSLAWAVPRAPSGAVLDYEVKYHEKGAEGPSSVRFKLTSEN
 RAELRGLKRGASYLVQVRARSEAGYGPFGQEHHSQTQLDESEGWREQLAL IAGTAVVGVVLLVVI VVAV
 LCLRKQNSGREAEYSKDHGQYLIGHGTKVYIDPFTYEDPNEAVREFAKEIDVSYVKIEEVIGAGEFGEVC
 RGRLKAPGKKECVAIKTLKGGYTERQRREFLSEASIMGQFEHPNIIRLEGVVTNSMPVMILTFMENGA
 LDSFLRLNDGQFTVIQLVGMLRGIASGMRYLAEMSYVHRDLAARNILVNSNLVCKVSDFGLSRFLSEENS
 DPTYTSSLGGKIPIRWTAPEAIAFRKFTSASDAWSYGI VMWEVMSFGERPYWMSNQDVINAIEQDYRLP
 PPPDCPTSLHQLMLDCWQKDRNARPRFPQVVSALDKMIRNPASLKIVARENGGASHPLLDQRQPHYSAFG
 SVGEWLRAIKMGRYEESFAAAGFGSFEVLSQISAE DLLRIGVTLAGHQKILASVQHMSQAKPGTGGT
 GGPAPQY

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

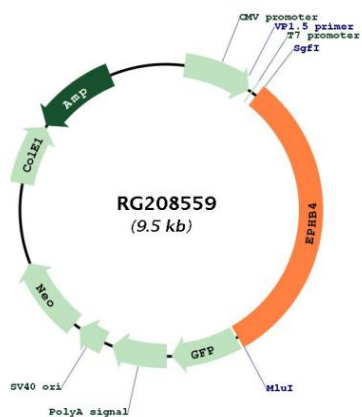


ACCN: NM_004444

ORF Size: 2961 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:	<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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_004444.5
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]

Product images:



Circular map for RG208559