

Product datasheet for **MR210806**

Epha5 (BC057401) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Epha5 (BC057401) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Epha5
Synonyms:	Ehk1, Hek7, Rek7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR210806 representing BC057401
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATCGGGGCTCCGGGCCCGCGGTGCGGGACACCGACGGACCCAGGGCAGAGGTGGCGGCGACGACACCC
 CCCGCGTCCCTGCCTCTCTGGCAGGCTGCTATTCGGCACCTCTAAAGGGCCCCCTGGACGTGCCTTCT
 CTTGTGTGCGGCCTCCGGACCCCTTTGGCCAGCCCCAGCAACGAAGTGAATTTGTTGGATTGCGCACT
 GTCATGGGGACCTTGGATGGATTGCTTTTCAAAGAACGGGTGGGAAGAGATTGGTGAAGTTGATGAGA
 ACTATGCCCCATCCACACATACCAAGTGTCAAAGTTATGGAACAGAATCAGAATAATTGGCTGTTGAC
 CAGTTGGATCTCTAACGAAGGTGCTCCAGAATCTTTATTGAACTCAAGTTTACTTTAAGGGACTGCAAC
 AGCCTTCTGGAGGACTGGGACTTGTAAAGGACATTTAACATGTATTATTTGAATCAGATGATGAGA
 ATGGGAGAAGTATCAAAGAGAACCAATACATCAAGATTGATACCATCGCTGCAGATGAGAGCTTCACAGA
 ACTTGATCTTGGTGACCGTGTGATGAACTGAATACAGAGGTGAGAGATGTCGGACCTCTGAGCAAAAAG
 GGATTTTATCTTGCTTTCCAAGATGTCGGTGTGCTGATTGCTCTGGTTTCTGTCCGTGTCTACTATAAAA
 AGTGTCCCTCTGTAGTAAGACACTTGGCTATCTTCCCTGACACTATCACTGGAGCAGATTCATCACAGTT
 GTTAGAGGTGTCAGGCTCCTGCGTCAACCATCTGTGACAGATGATCCTCCCAAGATGCATTGCAGTGT
 GAAGGGGAGTGGCTGGTCCCATTTGGGAAATGCATGTGCAAGGCTGGATATGAAGAGAAAAATGGTACCT
 GCCAAGCTCCTTCCAGTACCAATGTAAAAAGGGGAAGATTGCAAAGAACAGCATTTCTTTGTCTTG
 GCAAGAGCCAGATCGCCCCAATGGAATATCCTGGAGTATGAAATCAAGTACTTTGAAAAGGACCAAGAG
 ACCAGTTACACAATTCAAGTCTAAAGAGACCAGTATTACAGCCGAGGGCTGAAACCTGCATCTGTGT
 ATGTTTCCAAATTCGAGCACGTACAGCAGCAGGCTACGGCGTCTTCAGTCAAGATTTGAGTTTGAAC
 CACACCAGTGTTCGAGCATCTAATGATCAAAGCCAGATTCCCATCATTGCAAGTGCAGTGACAGTGGGA
 GTCATCTTGTGGCAGTATGATCGGCTTCTCCTCAGTGGCAGGCGGTGGCTACAGCAAAGCAAAGC
 AGGATCCAGAAGAGGAAAAGATGCACTTTCATAACGGGCACATTAAGTCCAGGAGTCAAGCCTATAT
 TGATCCGCACACTTATGAAGATCCCAATCAAGCTGTTTCAATTTGCGAAGGAGATTGAAGCTTCATGC
 ATCACCATTGAGAGAGTATCGGAGCAGGTGAATTTGGTGAAGTTTGCAGTGGACGTTTGAAGTACCTG
 GAAAAAGAGAATTACCTGTGGCTATCAAACTCTTAAAGTAGGCTATACTGAAAAGCAGCGCAGAGATTT
 CCTGGGTGAAGCAAGTATTATGGGGCAGTTCGATCATCCAAACATCATCCATCTAGAAGGTGTTGTGACT
 AAAAGCAAACCTGTGATGATAGTGACAGAGTACATGGAGAACGGCTCCTTAGACACGTTTTTAAAGAAA
 ACGATGGGCAGTTCAGTGTGATTGAGCTTGTGGCATGCTGAGAGGCATCGCTGCAGGAATGAAGTACCT
 TTCTGACATGGGCTACGTGCATAGAGACCTTGCTGCTAGAAACATCTTAATCAACAGTAACCTTGTGTGC
 AAGGTGTCTGACTTTGGACTTCCAGGGTACTGGAAGTATCCTGAGGCAGCCTACACCACAAGGGGAG
 GCAAAATCCAAATCAGATGGACTGCCCGGAGGCAATAGCTTTTCGAAAGTTCACCTCTCCAGTATGT
 CTGGAGCTATGGCATTGTAATGTGGGAAGTTGTATCTTATGGAGAGAGACCCTACTGGGAGATGACCAAT
 CAGGATGTGATCAAGGCAGTAGAAGAAGGCTACCGCTGCCAAGCCCCATGGATTGCCCTGCTGCTCTCT
 ATCAATTAATGCTGGATTGCTGGCAGAAAGATCGAAACAGCAGGCCCAAGTTTGAATGAAATCGTCAACAT
 GCTGGACAAACTGATACGAAACCCAAGTGTCTGAAGACACTGGTGAATGCGTCGAGCAGAGTGTCTACA
 TTGTTGGCAGAACATGGTTCTTTGGGGTCTGGGGCTACAGATCAGTAGGTGAATGGCTGGAAGCAATCA
 AAATGGTTCGGTACAGAGATTTTTCATGGAAAATGGATACAGTTCAATGGACGCTGTGGCTCAGGTGAC
 CTTGGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210806 representing BC057401
Red=Cloning site Green=Tags(s)

MRGSGPRGAGHRRTQGRGGDDTPRVPASLAGCYSAPLKGPLWTCLLLCAALRLLASPSNEVNLLDSRT
VMGDLGWIAFPKNGWEEIGEVDENYAPIHTYQVCKVMEQNQNNWLLTSWISNEGASRIFIELKFTLRDCN
SLPGGLGTCKETFNMYFESDDENGRSIKENQYIKIDTIAADESFTELDLGDVMKLNTEVRDVGPLSKK
GFYLAFQDVGACIALVSVRVYKCKPCPSVVRHLAIFPDTITGADSSQLLEVSGSCVNHSVTDDPPKMHC
EGEWLVPIGKCMCKAGYEEKNGTCQAPSPVTNVKKGKIAKNSISLSWQEPDRPNGIILEYEIKYFEKDQE
TSYTIKSKETSITAEGLPASVYVFQIRARTAAGYGVFSRRFEFETTPVFAASNDQSQIPIIAVSVTVG
VILLAVMIGFLLSGRRCGYKAKQDPEEEKMHFHNGHIKLPVVRTYIDPHTYEDPNQAVHEFAKEIEASC
ITIERVIGAGEFGEVCSGRLKLPKRELPAIKTLKVGYTEKQRRDFLGEASIMGQFDHPNIIHLEGVVT
KSKPVMIVTEYMENGLDFTLKKNDGQFTVIQLVGMLRGI AAGMKYLSDMGYVHRDLAARNILINSNLVC
KVSDFGLSRVLEDDPEAAAYTTRGGKIPIRWTAPEAIAFRKFTSSSDVWSYGIVMWEVVSYGERPYWEMTN
QDVIKAVEEGYRLPSPMDCPAALYQLMLDCWQKDRNSRPKFDEIVNMLDKLIRNPSLKLTLVNASSRVST
LLAEHGSLGSGAYRSVGEWLEAIKMGRYTEIFMENGYSSMDAVAQVTLE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9034_e11.zip

Restriction Sites: Sgfl-Mlul

- Reconstitution Method:**
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: [BC057401.1](#)

RefSeq Size: 4018 bp

RefSeq ORF: 2459 bp

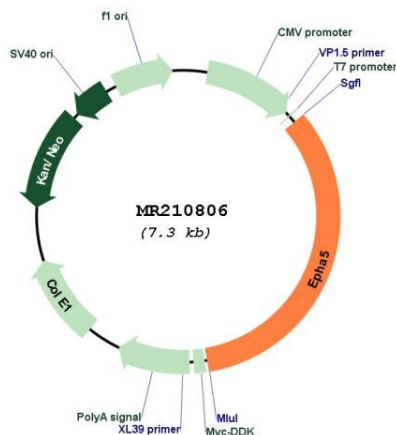
Locus ID: 13839

Cytogenetics: 5 43.0 cM

MW: 147.3 kDa

Gene Summary: Receptor tyrosine kinase which binds promiscuously GPI-anchored ephrin-A family ligands residing on adjacent cells, leading to contact-dependent bidirectional signaling into neighboring cells. The signaling pathway downstream of the receptor is referred to as forward signaling while the signaling pathway downstream of the ephrin ligand is referred to as reverse signaling. Among GPI-anchored ephrin-A ligands, EFNA5 most probably constitutes the cognate/functional ligand for EPHA5. Functions as an axon guidance molecule during development and may be involved in the development of the retinotectal, entorhino-hippocampal and hippocamoseptal pathways. Together with EFNA5 plays also a role in synaptic plasticity in adult brain through regulation of synaptogenesis. In addition to its function in the nervous system, the interaction of EPHA5 with EFNA5 mediates communication between pancreatic islet cells to regulate glucose-stimulated insulin secretion. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210806