

Product datasheet for **MC220716**

Epha5 (BC057401) Mouse Untagged Clone

Product data:

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



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Fully Sequenced ORF: >BC057401
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATCGGGGCTCCGGGCCCGCGGTGCGGGACACCGACGGACCCAGGGCAGAGGTGGCGGCGACGACACCC
 CCCGCGTCCCTGCCTCTCTGGCAGGCTGCTATTGGCACCTCTAAAGGGCCCCCTGGACGTGCCTTCT
 CTTGTGTGCGGCCTCCGGACCTTTTGGCCAGCCCCAGCAACGAAGTGAATTTGTTGGATTGCGCACT
 GTCATGGGGACCTTGGATGGATTGCTTTTCAAAGAACGGGTGGGAAGAGATTGGTGAAGTTGATGAGA
 ACTATGCCCCATCCACACATACCAAGTGTCAAAGTTATGGAACAGAATCAGAATAATTGGCTGTTGAC
 CAGTTGGATCTTAACGAAGGTGCTTCCAGAATCTTTATTGAACTCAAGTTTACTTTAAGGGACTGCAAC
 AGCCTTCTGGAGGACTGGGACTTGTAAAGGAGACATTTAACATGTATTATTTTGAATCAGATGATGAGA
 ATGGGAGAAGTATCAAAGAGAACCAATACATCAAGATTGATACCATCGCTGCAGATGAGAGCTTCACAGA
 ACTTGATCTTGGTGACCGTGTGATGAACTGAATACAGAGGTGAGAGATGTCGGACCTCTGAGCAAAAAG
 GGATTTTATCTTGCTTTCCAAGATGTCGGTGTGCTGATTGCTCTGGTTTCTGTCCGTGTCTACTATAAAA
 AGTGTCCCTCTGTAGTAAGACACTTGGCTATCTTCCCTGACACTATCACTGGAGCAGATTCATCACAGTT
 GTTAGAGGTGTCAGGCTCCTGCGTCAACCATCTGTGACAGATGATCCTCCCAAGATGCATTGCAGTGT
 GAAGGGGAGTGGCTGGTCCCATTTGGGAAATGCATGTGCAAGGCTGGATATGAAGAGAAAAATGGTACCT
 GCCAAGCTCCTTCTCCAGTACCAATGTGAAAAAGGGGAAGATTGCAAAGAACAGCATTTCTTTGTCTTG
 GCAAGAGCCAGATCGCCCCAATGGAATATCCTGGAGTATGAAATCAAGTACTTTGAAAAGGACCAAGAG
 ACCAGTTACACAATTACAAGTCTAAAGAGACCAGTATTACAGCCGAGGGCTGAAACCTGCATCTGTGT
 ATGTCTTCAAATTCGAGCACGTACAGCAGCAGGCTACGGCGTCTTCAGTGAAGTTTGAAGTTGAAAC
 CACACCAGTGTTCGAGCATCTAATGATCAAAGCCAGATTTCCATCATTGCAAGTTCAGTGACAGTGGGA
 GTCATCTTGTGGCAGTATGATCGGCTTCTCCTCAGTGGCAGGCGGTGGCTACAGCAAAGCAAAGC
 AGGATCCAGAAGAGGAAAAGATGCACTTTCATAACGGGCACATTAAGTCCAGGAGTCAAGACCTATAT
 TGATCCGCACACTTATGAAGATCCCAATCAAGCTGTTTCAATTTGCGAAGGAGATTGAAGCTTCATGC
 ATCACCATTGAGAGAGTATCGGAGCAGGTGAATTTGGTGAAGTTTGCAGTGGACGTTTGAAGTACCTG
 GAAAAAGAGAATTACCTGTGGCTATCAAACTCTTAAAGTAGGCTATACTGAAAAGCAGCGCAGAGATTT
 CCTGGGTGAAGCAAGTATTATGGGGCAGTTCGATCATCCAAACATCATCCATCTAGAAGGTGTTGTGACT
 AAAAGCAAACCTGTGATGATAGTACAGAGTACATGGAGAACGGCTCCTTAGACAGTTTTTAAAGAAA
 ACGATGGGCAGTTCAGTGTGATTGAGCTTGTGGCATGCTGAGAGGCATCGCTGCAGGAATGAAGTACCT
 TTCTGACATGGGCTACGTGCATAGAGACCTTGCTGCTAGAAACATCTTAATCAACAGTAACCTTGTGTGC
 AAGGTGTCTGACTTTGGACTTTCCAGGGTACTGGAAGATGATCCTGAGGCAGCCTACACCACAAGGGGAG
 GCAAAATCCAAATCAGATGGACTGCCCGGAGGCAATAGCTTTTCGAAAGTTCACCTCTTCCAGTATGT
 CTGGAGCTATGGCATTGTAATGTGGGAAGTTGTATCTTATGGAGAGAGACCCTACTGGGAGATGACCAAT
 CAGGATGTGATCAAGGCAGTAGAAGAAGGCTACCGCTGCCAAGCCCCATGGATTGCCCTGCTGCTCTCT
 ATCAATTAATGCTGGATTGCTGGCAGAAAGATCGAAACAGCAGGCCCAAGTTTGAATCGTCAACAT
 GCTGGACAAACTGATACGAAACCCAAGTGTCTGAAGACACTGGTGAATGCGTCGAGCAGAGTGTCTACA
 TTGTTGGCAGAACATGGTTCTTTGGGGTCTGGGGCTACAGATCAGTAGGTGAATGGCTGGAAGCAATCA
 AAATGGTCCGTACAGAGATTTTTCATGGAAAATGGATACAGTTCAATGGACGCTGTGGCTCAGGTGAC
 CTTGGAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: BC057401
Insert Size: 2460 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:	BC057401 , AAH57401
RefSeq Size:	4018 bp
RefSeq ORF:	2459 bp
Locus ID:	13839
Cytogenetics:	5 43.0 cM
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 hippocamposeptal 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]