

Product datasheet for **MC222308**

Epha5 (NM_007937) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Epha5 (NM_007937) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Epha5
Synonyms:	AI854630; AW125296; bsk; Cek7; Ehk1; Els1; Hek7; Rek7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC222308 representing NM_007937
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATCGGGGCTCCGGGCCCGCGGTGCGGGACACCGACGGACCCAGGGCAGAGGTGGCGGCGACGACACCC
 CCCGCGTCCCTGCCTCTCTGGCAGGCTGCTATTCGGCACCTCTAAAGGGCCCCCTCTGGACGTGCCTTCT
 CTTGTGTGCGGCCTCCGGACCCCTTTGGCCAGCCCCAGCAACGAAGTGAATTTGTTGGATTTCGCGCACT
 GTCATGGGGACCTTGGATGGATTGCTTTTCCAAAGAACGGGTGGGAAGAGATTGGTGAAGTTGATGAGA
 ACTATGCCCCATCCACACATACCAAGTGTCAAAGTTATGGAACAGAATCAGAATAATTGGCTGTTGAC
 CAGTTGGATCTCTAACGAAGGTGCTTCCAGAATCTTTATTGAACTCAAGTTTACTTTAAGGGACTGCAAC
 AGCCTTCTGGAGGACTGGGACTTGTAAAGAGACATTTAACATGTATTATTTTGAATCAGATGATGAGA
 ATGGGAGAAGTATCAAAGAGAACCAATACATCAAGATTGATACCATCGCTGCAGATGAGAGCTTCACAGA
 ACTTGATCTTGGTGACCGTGTGATGAAACTGAATACAGAGGTGAGAGATGTCGGACCTCTGAGCAAAAAG
 GGATTTTATCTTGCTTTCCAAGATGTCGGTGCTTGCATTGCTCTGGTTTCTGTCCGTGTCTACTATAAAA
 AGTGTCCCTCTGTAGTAAGACACTTGGCTATCTTCCCTGACACTATCACTGGAGCAGATTCATCACAGTT
 GTTAGAGGTGTCAGGCTCCTGCGTCAACCATCTGTGACAGATGATCCTCCCAAGATGCATTGCAGTGTCT
 GAAGGGGAGTGGCTGGTCCCATTTGGGAAATGCATGTGCAAGGCTGGATATGAAGAGAAAAATGGTACCT
 GCCAAGCTCCTTCCAGTACCAATGTAAAAAGGGGAAGATTGCAAAGAACAGCATTTCTTTGTCTTG
 GCAAGAGCCAGATCGCCCCAATGGAATTCCTGGAGTATGAAATCAAGTACTTTGAAAAGGACCAAGAG
 ACCAGTTACACAATTCAAGTCTAAAGAGACCAGTATTACAGCCGAGGGCCTGAAACCTGCATCTGTGT
 ATGTCTTCCAAATTCGAGCACGTACAGCAGCAGGCTACGGCGCTTCAGTCAAGATTTGAGTTTGAAC
 CACACCAGTGTCAAGTTCAGCATCTAATGATCAAAGCCAGATTCATCATTGCGAGTGTCAAGTGTGACAGT
 GGAGTCACTTGTGGCAGTGTGATCGCTTCTCCTCAGTGGCAGTTGCTGCGATTGTGGCTGTGGGA
 GGGCTTCTCCCTGTGCGCTGTTGCCCATCCAAGCCTAATATGGCGGTGTGGCTACAGCAAAGCAAAGCA
 GGATCCAGAAGAGGAAAAGATGCACTTTTATAACGGGCACATTAAGTCCAGGAGTGCAGAACCTATATT
 GATCCGCACACTTATGAAGATCCCAATCAAGCTGTTTATGAAATTTGCGAAGGAGATTGAAGCTTCATGCA
 TCACCATTGAGAGAGTGTGCGGACAGGTGAATTTGGTGAAGTTTGCAGTGGACGTTTGAAGTACCTGG
 AAAAGAGAATTACCTGTGGCTATCAAACCTCTTAAAGTAGGCTATACTGAAAAGCAGCGCAGAGATTTT
 CTGGGTGAAGCAAGTATTATGGGCGAGTTCGATCATCAAACATCATCCATCTAGAAGGTGTTGTGACTA
 AAAGCAAACCTGTGATGATAGTGACAGAGTACATGGAGAACGGCTCCTTAGACACGTTTTTAAAGAAAA
 CGATGGGCAGTTCAGTGTGATTGAGCTTGTGGCATGCTGAGAGGCATCGCTGCAGGAATGAAGTACCTT
 TCTGACATGGGCTACGTGCATAGAGACCTTGTGCTAGAAAACCTTAATCAACAGTAACCTTGTGTGCA
 AGGTGTCTGACTTTGGACTTTCCAGGCTACTGGAAGATGATCCTGAGGCAGCCTACACCACAAGGGGAGG
 CAAAATCCAATCAGATGGACTGCCCGGAGGCAATAGCTTTTCGAAAGTTACCTCTTCCAGTGTGTC
 TGGAGCTATGGCATTGTAATGTGGGAAGTTGTATCTTATGGAGAGAGACCCTACTGGGAGATGACCAATC
 AGGATGTGATCAAGGCAGTAGAAGAAGGCTACCGCCTGCCAAGCCCCATGGATTGCCCTGCTGCTCTA
 TCAATTAATGCTGGATTGCTGGCAGAAAGATCGAAACAGCAGGCCCAAGTTTGTGAAATCGTCAACATG
 CTGGACAAAAGTATACGAAACCAAGTAGTCTGAAGACACTGGTGAATGCGTTCGAGCAGAGTGTCTACAT
 TGTGGCAGAACATGGTTCTTTGGGCTCTGGGCTACAGATCAGTAGGTGAATGGCTGGAAGCAATCAA
 AATGGGTCGGTACACAGAGATTTTATGGAAAATGGATACAGTTCAATGGACGCTGTGGCTCAGGTGACC
 TTGGAGGATTTGAGGCGCTGGGAGTACTCTGGTCGGTCACCAGAAGAAGATCATGAGCAGCCTTCAAG
 AGATGAAGGTGCAGATGGTAAACGGGATGGTGCCAGT**GTGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_007937
Insert Size: 2631 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_007937.3 , NP_031963.2
RefSeq Size:	7789 bp
RefSeq ORF:	2631 bp
Locus ID:	13839
UniProt ID:	Q60629
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 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]