

Product datasheet for **MC219607**

Epha7 (NM_001122889) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Epha7 (NM_001122889) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Epha7
Synonyms:	Cek11; Ebk; Ehk3; Hek11; Mdk1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC219607 representing NM_001122889
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTTGTTCAAACCTCGTTCCCTTCGTGGATTATTTGTGTTACATCTGGCTGCTTGGCTTTGCACACA
 CGGGGGAGGCGCAGGCTGCGAAGGAAGTACTATTACTGGACTCGAAAGCACAACAACAGAAATTGGAATG
 GATTTCTCTCCACCCAGTGGGTGGGAAGAAATTAGTGGTTTGGATGAGAATACTACTCCGATAAGAACA
 TACCAGGTGTGCCAGGTATGGAGCCCAACCAGAACTGGCTGCGGACTAACTGGATTCTAAAGGCA
 ACGCACAAAGGATTTTTGTAGAATTGAAATTCACCTTGAGGGATTGTAATAGTCTCCCGGAGTCTGGG
 AACTTGAAGGAAACGTTAATTTGTACTATTATGAAACAGACTACGACACCGGCAGGAATATACGAGAA
 AACCTTTATGTTAAAATAGACACCATTGCTGCAGATGAAAGTTTACACAAGGTGACCTTGGTGAAGAA
 AGATGAAGCTGAACACTGAGGTGAGAGAGATTGGACCTTGTCCAAAAGGGATTCTATCTTGCCTTCA
 GGATGTAGGGCTTGCATAGCATTGGTTTCTGTCAAAGTGTACTACAAGAAGTGTGGTCCATTGTTGAG
 AACTTAGCTGTCTTCCAGATACAGTACTGGTTCGGAATTTTCTCCTTAGTCGAGGTCCTGGGACAT
 GTGTCAGCAGTCCGAGGAAGAGGCAGAAAATCCCCAGAATGCATTGCAGTGCAGAAGGAGAGTGGCT
 AGTACCCATTGGAAAATGCATCTGCAAAGCAGGCTATCAGCAAAAAGGGGACACTTGCGAACCCTGTGGC
 CGCAGGTTCTACAAATCTTCTCTCAGGATCTCCAGTGTCTCGTTGTCCAACCCACAGCTTCTCTGACC
 GAGAAGGATCATCCAGGTGTGAATGTGAAGATGGTACTACAGAGCTCCTTCTGATCCACCATACGTTGC
 ATGCACGAGGCCCTCCCTGACCCACAGAACCTTATTTTCAATATCAATCAAACGACTGTAAGTTTGAA
 TGGAGTCTCCGGCTGACAACGGGGGAAGAAACGATGTCACCTACAGAATACTGTGTAAGCGGTGCAGTT
 GGAACAGGGAGAATGTGTGCCATGCGGAAGTAACATTGGATACATGCCCAGCAGCGGGATTAGAGGA
 TAACTATGTCAGTGCATGGACCTACTTGCCCATGCAAATTACACTTTCGAAGTTGAAGCTGTAATGGA
 GTTTCGGACTTAAGCAGATCCCAGAGGCTCTTCGCTGCTGTTAGCATCACACCAGTCAAGCAGCTCCCT
 CGCAAGTGAGTGGAGTCAAGAAGGAGGAGTACTGCAGCGGAGTGTGCAGCTTCTTCCAGGAGCCGGA
 GCATCCCAATGGAGTCAACGGAATATGAAATCAAGTATTATGAGAAAGATCAACGGGAAAGGACGTAC
 TCAACTCAAACCAAGTCCACCTCCGCTCCATTAATAATCTGAAACCGGGAACAGTGTACGCTTTTC
 AGATCCGGGCGGTCACTGCTGCCGTTATGAAACTACAGCCCTAGGCTTGTGTTGCCACTTGAGGA
 AGCTTCAGGTAATGTTTGAAGCGACAGCAGTCTCCAGTGAACAGAATCCTGTCATCATAATTGCTGTA
 GTGGCTGTAGCAGGACCATCATCTTGGTGTTCATGGTGTTCGGCTTTCATATTGGAAGAAGGCACTGTG
 GTTATAGCAAGGCTGACCAAGAAGGGGATGAAGAACTCTACTTTCATTCTTAGTAACAAATGAGCACCT
 GTCAGTTTATA**AA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001122889

Insert Size: 1833 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:

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_001122889.1](#), [NP_001116361.1](#)

RefSeq Size: 3272 bp

RefSeq ORF: 1833 bp

Locus ID: 13841

Cytogenetics: 4 12.42 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 is a cognate/functional ligand for EPHA7 and their interaction regulates brain development modulating cell-cell adhesion and repulsion. Has a repellent activity on axons and is for instance involved in the guidance of corticothalamic axons and in the proper topographic mapping of retinal axons to the colliculus. May also regulate brain development through a caspase(CASP3)-dependent proapoptotic activity. Forward signaling may result in activation of components of the ERK signaling pathway including MAP2K1, MAP2K2, MAPK1 AND MAPK3 which are phosphorylated upon activation of EPHA7. Isoform 4 which lacks the kinase domain may regulate isoform 1 adhesive properties.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) lacks multiple 3' exons but has an alternate 3' exon, as compared to variant 1. The resulting isoform (2) has a different and shorter C-terminus, as compared to isoform 1.