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## Product datasheet for MC223037

## Epha7 (NM_010141) Mouse Untagged Clone

## Product data:

Product Type:
Product Name:

## Tag:

Symbol:
Synonyms:
Vector:
E. coli Selection:

Cell Selection:
Fully Sequenced ORF:

Expression Plasmids
Epha7 (NM_010141) Mouse Untagged Clone
Tag Free
Epha7
Cek11; Ebk; Ehk3; Hek11; Mdk1
pCMV6-Entry (PS100001)
Kanamycin ( $25 \mathrm{ug} / \mathrm{mL}$ )
Neomycin
>MC223037 representing NM_010141
Red=Cloning site Blue=ORF Orange=Stop codon

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## TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

 GCCGCGATCGCCATGGTTGTTCAAACTCGGTTCCCTTCGTGGATTATTTTGTGTTACATCTGGCTGCTTGGCTTTGCACACA CGGGGGAGGCGCAGGCTGCGAAGGAAGTACTATTACTGGACTCGAAAGCACAACAAACAGAATTGGAATG GATTTCCTCTCCACCCAGTGGGTGGGAAGAAATTAGTGGTTTGGATGAGAACTACACTCCGATAAGAACA TACCAGGTGTGCCAGGTCATGGAGCCCAACCAGAACAACTGGCTGCGGACTAACTGGATTTCTAAAGGCA ACGCACAAAGGATTTTTGTAGAATTGAAATTCACCTTGAGGGATTGTAATAGTCTTCCCGGAGTCCTGGG AACTTGCAAGGAAACGTTTAATTTGTACTATTATGAAACAGACTACGACACCGGCAGGAATATACGAGAA AACCTTTATGTTAAAATAGACACCATTGCTGCAGATGAAAGTTTCACACAAGGTGACCTTGGTGAAAGAA AGATGAAGCTGAACACTGAGGTGAGAGAGATTGGACCTTTGTCCAAAAAGGGATTCTATCTTGCCTTTCA GGATGTAGGGGCTTGCATAGCATTGGTTTCTGTCAAAGTGTACTACAAGAAGTGCTGGTCCATTGTTGAG AACTTAGCTGTCTTTCCAGATACAGTGACTGGTTCGGAATTTTCCTCCTTAGTCGAGGTCCGTGGGACAT GTGTCAGCAGTGCCGAGGAAGAGGCAGAAAATTCCCCCAGAATGCATTGCAGTGCAGAAGGAGAGTGGCT AGTACCCATTGGAAAATGCATCTGCAAAGCAGGCTATCAGCAAAAAGGGGACACTTGCGAACCCTGTGGC CGCAGGTTCTACAAATCTTCCTCTCAGGATCTCCAGTGTTCTCGTTGTCCAACCCACAGCTTCTCTGACC GAGAAGGATCATCCAGGTGTGAATGTGAAGATGGGTACTACAGAGCTCCTTCTGATCCACCATACGTTGC ATGCACGAGGCCTCCCTCTGCACCACAGAACCTTATTTTCAATATCAATCAAACGACTGTAAGTTTGGAA TGGAGTCCTCCGGCTGACAACGGGGGAAGAAACGATGTCACCTACAGAATACTGTGTAAGCGGTGCAGTT GGGAACAGGGAGAATGTGTGCCATGCGGAAGTAACATTGGATACATGCCCCAGCAGACGGGATTAGAGGA TAACTATGTCACTGTCATGGACCTACTTGCCCATGCAAATTACACTTTCGAAGTTGAAGCTGTAAATGGA GTTTCGGACTTAAGCAGATCCCAGAGGCTCTTCGCTGCTGTTAGCATCACCACCGGTCAAGCAGCTCCCT CGCAAGTGAGTGGAGTCATGAAGGAGCGAGTACTGCAGCGGAGTGTGCAGCTTTCCTGGCAGGAGCCGGA GCATCCCAATGGAGTCATCACGGAATATGAAATCAAGTATTATGAGAAAGATCAACGGGAAAGGACGTAC TCAACACTCAAAACCAAGTCCACCTCCGCCTCCATTAATAATCTGAAACCGGGAACAGTGTACGTCTTTC

|  | AGATCCGGGCGGTCACTGCTGCCGGTTATGGAAACTACAGCCCTAGGCTTGATGTTGCCACACTTGAGGA |
| :--- | :--- |
|  | AGCTTCAGGTAAAATGTTTGAAGCGACAGCAGTCTCCAGTGAACAGAATCCTGTCATCATAATTGCTGTA |
|  | GTGGCTGTAGCAGGGACCATCATCTTGGTGTTCATGGTGTTCGGCTTCATCATTGGAAGAAGGCACTGTG |
|  | GTTATAGCAAGGCTGACCAAGAAGGGGATGAAGAACTCTACTTTCATTTTAAATTTCCAGGCACCAAAAC |

UniProt ID:

Cytogenetics:
Gene Summary:

Q61772
412.42 cM

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 (1) encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.

