

Product datasheet for **MC222892**

Epha2 (NM_010139) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Epha2 (NM_010139) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Epha2
Synonyms:	AW545284; Eck; Myk2; Sek-2; Sek2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_010139, the custom clone sequence may differ by one or more nucleotides

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ATGGAGCTCCGGCAGTCGGTTTCTGCCTGGCGCTGCTGTGGGGTTGCGCGCTGGCGGCCGCGCGGCAC
AGGAAAGGAAGTTGTTTTGTTGGACTTCGCAGCAATGAAGGGAGAGCTCGGCTGGCTCAGCACCCCTA
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CATCGGGCAGTGCTGTGCCAGGAAGGCTACGAGAAGGTGAGGATGCCTGCCGAGCCTGTTCTCCAGGA
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AGGGCCAGGGAGCCGGCAGCAAAGTGCACGAGTCCAGACACTGTCCACGGAAGGATCTGCCAACATGGC
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TCGAGAAGGTGGTACAGATGTCCAACGAAGACATCAAAGGATCGGAGTGCCTTCTCGGCCACCAGAA
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Restriction Sites: SgfI-MluI
ACCN: NM_010139
Insert Size: 2934 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:	BC140960 , AAI40961
RefSeq Size:	3218 bp
RefSeq ORF:	2934 bp
Locus ID:	13836
UniProt ID:	Q03145
Cytogenetics:	4 73.67 cM
Gene Summary:	<p>Receptor tyrosine kinase which binds promiscuously membrane-bound 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. Activated by the ligand ephrin-A1/EFNA1 regulates migration, integrin-mediated adhesion, proliferation and differentiation of cells (PubMed:29749928). Regulates cell adhesion and differentiation through DSG1/desmoglein-1 and inhibition of the ERK1/ERK2 signaling pathway. May also participate in UV radiation-induced apoptosis and have a ligand-independent stimulatory effect on chemotactic cell migration. During development, may function in distinctive aspects of pattern formation and subsequently in development of several fetal tissues. Involved for instance in angiogenesis, in early hindbrain development and epithelial proliferation and branching morphogenesis during mammary gland development. Engaged by the ligand ephrin-A5/EFNA5 may regulate lens fiber cells shape and interactions and be important for lens transparency development and maintenance. With ephrin-A2/EFNA2 may play a role in bone remodeling through regulation of osteoclastogenesis and osteoblastogenesis.[UniProtKB/Swiss-Prot Function]</p>