

## Product datasheet for **MR211390L3V**

### **Ephb4 (NM\_010144) Mouse Tagged ORF Clone Lentiviral Particle**

#### **Product data:**

Product Type:	Lentiviral Particles
Product Name:	Ephb4 (NM_010144) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Ephb4
Synonyms:	AI042935; Htk; MDK2; Myk1; Tyro11
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_010144
ORF Size:	2961 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR211390).
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	<a href="#">NM_010144.6</a> , <a href="#">NP_034274.4</a>
RefSeq Size:	4334 bp
RefSeq ORF:	2964 bp
Locus ID:	13846
UniProt ID:	<a href="#">P54761</a>
Cytogenetics:	5 G2



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**Gene Summary:**

Receptor tyrosine kinase which binds promiscuously transmembrane ephrin-B 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. Together with its cognate ligand/functional ligand EFNB2 it is involved in the regulation of cell adhesion and migration, and plays a central role in heart morphogenesis, angiogenesis and blood vessel remodeling and permeability. EPHB4-mediated forward signaling controls cellular repulsion and segregation from EFNB2-expressing cells.[UniProtKB/Swiss-Prot Function]