

## Product datasheet for **MR226090L4V**

### Epha8 (NM\_007939) Mouse Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	Epha8 (NM_007939) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Epha8
Synonyms:	AW047546; Eek; Hek3; mKIAA1459
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_007939
ORF Size:	3012 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR226090).
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_007939.2</a> , <a href="#">NP_031965.2</a>
RefSeq Size:	4732 bp
RefSeq ORF:	3015 bp
Locus ID:	13842
UniProt ID:	<a href="#">O09127</a>
Cytogenetics:	4 D3



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**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. The GPI-anchored ephrin-A EFNA2, EFNA3, and EFNA5 are able to activate EPHA8 through phosphorylation. With EFNA5 may regulate integrin-mediated cell adhesion and migration on fibronectin substrate but also neurite outgrowth. During development of the nervous system plays also a role in axon guidance. Downstream effectors of the EPHA8 signaling pathway include FYN which promotes cell adhesion upon activation by EPHA8 and the MAP kinases in the stimulation of neurite outgrowth.[UniProtKB/Swiss-Prot Function]