

## Product datasheet for **TP505005**

### Efnb2 (NM\_010111) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse ephrin B2 (Efnb2), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR205005 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	<p>MAMARSRRDSVWKYCWGLLMVLCRTAISRSIVLEPIYWNSSNSKFLPGQGLVLYPQIGDKLDIICPKVDS KTVGQYEEYKVMVDKQADRCTIKKENTPLLNCARPDQVKFTIKFQEFSPNLWGLEFQKNKDYIIST SNGSLEGLDNQEGGVCQTRAMKILMKVGQDASSAGSARNHGPTRRPELEAGTNGRSSTTSPFVKPNPGSS TDGNSAGHSGNLLGSEVALFAGIASGCIIFIVIIITLVLLLLKYRRRHRKHSPQHHTTTLSTLATPKR GGNNNGSEPSDVIPLRTADSVFCPHYEKVSGDYGHPVYVQEMPPQSPANIYYKV</p> <p><b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b></p>
Tag:	C-MYC/DDK
Predicted MW:	37.2 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<a href="#">NP_034241</a>
Locus ID:	13642
UniProt ID:	<a href="#">P52800</a> , <a href="#">Q4FJM3</a>



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RefSeq Size: 4319

Cytogenetics: 8 3.42 cM

RefSeq ORF: 1011

Synonyms: ELF-2; Epl5; Eplg5; Htk-L; LERK-5; Lerk5; NLERK-1

**Summary:** Cell surface transmembrane ligand for Eph receptors, a family of receptor tyrosine kinases which are crucial for migration, repulsion and adhesion during neuronal, vascular and epithelial development. Binds promiscuously Eph receptors 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. Binds to receptor tyrosine kinase including EPHA4, EPHA3 and EPHB4. Together with EPHB4 plays a central role in heart morphogenesis and angiogenesis through regulation of cell adhesion and cell migration. EPHB4-mediated forward signaling controls cellular repulsion and segregation from EFNB2-expressing cells. May play a role in constraining the orientation of longitudinally projecting axons.[UniProtKB/Swiss-Prot Function]