

Specifications:

Gene:	mTek
Accession:	NP_038718
Insert size:	3385bp
Concentration:	10µg at 0.2µg/µL

mTie-2 cDNA Plasmid

Tek endothelial-specific receptor tyrosine kinase [*Mus musculus* (house mouse)]

Also known as: Hyk; STK1; Tie2; Tie-2; Cd202b; AA517024

Summary:

Tie2 is a receptor that belongs to the protein tyrosine kinase family. Tie2 possesses a unique extracellular region that contains two immunoglobulin-like domains, three epidermal growth factor (EGF)-like domains, and three fibronectin type III repeats. The ligand angiopoietin-1 binds to Tie2 and mediates a signaling pathway that functions in embryonic vascular development. Mutations in Tie2 are associated with inherited venous malformations of the skin and mucous membranes.

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.



