



**Protein Sequence:** >RG220133 representing NM\_004093  
Red=Cloning site Green=Tags(s)

MAVRRDSVWKYCWGLMVLCRTAISKIVLEPIYWSSNSKFLPGQGLVLYPQIGDKLDIICPKVDSKTV  
 GQY EY YK VY MVDK DQADRCTIKKENTPLL NCAKPDQDIKFTIKFQEFSPNLWGLEFQKNKDYYIIISTNSG  
 SLEGLDNQEGGVCQTRAMKILMKVGDASSAGSTRNKDPTRRPELEAGTNGRSSTTSPFVKPNPGSSTDG  
 NSAGHSGNNILGSEVALFAGIASGCIIFIVIIIITLVVLLLLKYRRRHRKHSPQHTTTLSTLSTLATPKRSGN  
 NNGSEPSDIIIPLR TADSVF CPHYEKVS GDYGH PVIYVQEMPPQSPANIYYKV

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_004093

**ORF Size:** 999 bp

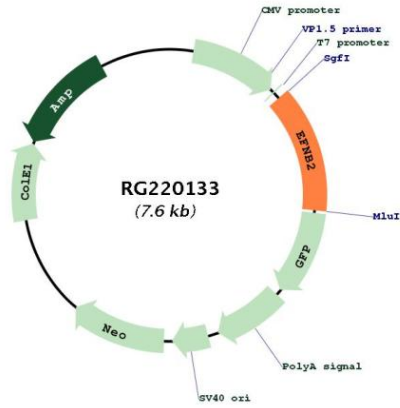
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_004093.4</a>
<b>RefSeq Size:</b>	4335 bp
<b>RefSeq ORF:</b>	1002 bp
<b>Locus ID:</b>	1948
<b>UniProt ID:</b>	<a href="#">P52799</a>
<b>Cytogenetics:</b>	13q33.3
<b>Domains:</b>	Ephrin
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Axon guidance
<b>Gene Summary:</b>	<p>This gene encodes a member of the ephrin (EPH) family. The ephrins and EPH-related receptors comprise the largest subfamily of receptor protein-tyrosine kinases and have been implicated in mediating developmental events, especially in the nervous system and in erythropoiesis. Based on their structures and sequence relationships, ephrins are divided into the ephrin-A (EFNA) class, which are anchored to the membrane by a glycosylphosphatidylinositol linkage, and the ephrin-B (EFNB) class, which are transmembrane proteins. This gene encodes an EFNB class ephrin which binds to the EPHB4 and EPHA3 receptors. [provided by RefSeq, Jul 2008]</p>

Product images:



Circular map for RG220133