

## Product datasheet for RR213236L4

### Epb41I4b (NM\_001127565) Rat Tagged Lenti ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Epb41I4b (NM_001127565) Rat Tagged Lenti ORF Clone
Tag:	mGFP
Symbol:	Epb41I4b
Synonyms:	RGD1562988
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RR213236).
Restriction Sites:	SgfI-MluI
Cloning Scheme:	

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF.



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**Plasmid Map:**


**ACCN:** NM\_001127565

**ORF Size:** 1581 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).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
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.

**RefSeq:** [NM\\_001127565.1](#), [NP\\_001121037.1](#)

**RefSeq Size:** 2218 bp

**RefSeq ORF:** 1584 bp

Locus ID: 500464

UniProt ID: [B2RYE5](#)

Cytogenetics: 5q24

**Gene Summary:** Up-regulates the activity of the Rho guanine nucleotide exchange factor ARHGEF18. Involved in the regulation of the circumferential actomyosin belt in epithelial cells. Promotes cellular adhesion, migration and motility in vitro and may play a role in wound healing. May have a role in mediating cytoskeletal changes associated with steroid-induced cell differentiation. [UniProtKB/Swiss-Prot Function]