

Product datasheet for RR207973L4

Ptk2b (NM_017318) Rat Tagged Lenti ORF Clone

Product data:

OriGene Technologies, Inc.

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Product Type:	Expression Plasmids		
Product Name:	Ptk2b (NM_017318) Rat Tagged Lenti ORF Clone		
Tag:	mGFP		
Symbol:	Ptk2b		
Synonyms:	CAKB; CAK beta; CAKbeta; Pyk2		
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(RR207973).		
Restriction Sites:	Sgfl-Mlul		
Cloning Scheme:			
	Cloning sites used for ORF Shuttling:		
	Sgfi ORF Miui		
	GCG ATC GC ATG// NNN ACG CGT		
	GCG ATC GCC ATG NNŇ ACG CGT		

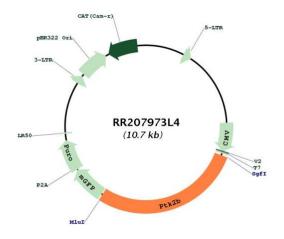
			Kozak Consensus	
EcoR I	BamH I	RBS	Sgf I	ORF
CTATAGGGCGGCCGGGAATTCGTC	GACTGGATCCG	GTACCGAGGAGAT	CTGCCGCCGCGATCGC	C ATG
	Mlul	Notl_Xho	ol mGFP T	ag
NNŇ			GAG ATG AGC GGG	
	TRT	RPL	E M S G	G
GGA CTC AGA GTT TGG	GTA GGA AGC			
- GLRV				

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



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Plasmid Map:



ACCN:	NM_017318
ORF Size:	3027 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. <u>More info</u>
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:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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:	<u>NM 017318.2, NP 059014.2</u>
RefSeq Size:	3907 bp
RefSeq ORF:	3030 bp

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	Ptk2b (NM_017318) Rat Tagged Lenti ORF Clone – RR207973L4
Locus ID:	50646
UniProt ID:	<u>P70600</u>
Cytogenetics:	15p12
Gene Summary:	may phosphorylate focal adhesion kinase FAK; may play a role in actin cytoskeleton reorganization; may mediate thrombin induced astrocyte proliferation [RGD, Feb 2006]

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