

Product datasheet for RR207497L4

Kcnb1 (NM_013186) Rat Tagged Lenti ORF Clone

Product data:

OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	Kcnb1 (NM_013186) Rat Tagged Lenti ORF Clone
Tag:	mGFP
Symbol:	Kcnb1
Synonyms:	DRK1PC; Kcr1-1; Kv2.1; Shab
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(RR207497).
Restriction Sites:	Sgfl-Mlul
Cloning Scheme:	Cloning sites used for ORF Shuttling:
	Sgf I ORF Mlu I GCG ATC GC ATG// NNN ACG CGT

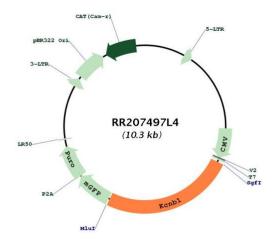
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EcoR I		Bam	нı		RI	35			s	gf I			o	٩F
CTATAGGGCGGCCGGGAATTCGTC	GACT	GGA	ccGe	STACC	GAG	GAGA	тстб	CCGC	cGCG	ATCG	C C A	TG	 	
	Mlu I		_	,	Notl_X		no I	mGFP T			Tag			
NNŇ	ACG T	CGT R	ACG T	CGG R	CCG P	CTC L	GAG E	ATG M	AGC S	GGG G	GGC G		 	
GGA CTC AGA GTT TGC G L R V	G GTA	GGA	AGC											

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



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Plasmid Map:



ACCN:	NM_013186
ORF Size:	2559 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 013186.1, NP 037318.1</u>
RefSeq Size:	3348 bp
RefSeq ORF:	2562 bp

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	Kcnb1 (NM_013186) Rat Tagged Lenti ORF Clone – RR207497L4
Locus ID:	25736
UniProt ID:	<u>P15387</u>
Cytogenetics:	3q42
Gene Summary:	voltage gated potassium channel; involved in the excitability in nerve and muscle [RGD, Feb 2006]

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