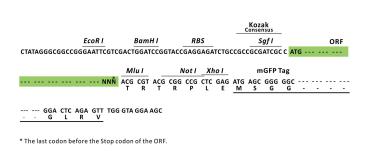


Product datasheet for RC218315L4

CAMK2B (NM_172082) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids Product Name: CAMK2B (NM 172082) Human Tagged Lenti ORF Clone Tag: mGFP Symbol: CAMK2B Synonyms: CAM2; CAMK2; CAMKB; CaMKIIbeta; MRD54 **Mammalian Cell** Puromycin Selection: Vector: pLenti-C-mGFP-P2A-Puro (PS100093) E. coli Selection: Chloramphenicol (34 ug/mL) The ORF insert of this clone is exactly the same as(RC218315). **ORF** Nucleotide Sequence: **Restriction Sites:** Sgfl-Mlul **Cloning Scheme:** Cloning sites used for ORF Shuttling: ORF Sqf I Mlu I --- GCG ATC GC C ATG --- //--- NNN ACG CGT ---



ACCN: ORF Size: NM_172082 1476 bp

OriGene Technologies, Inc.

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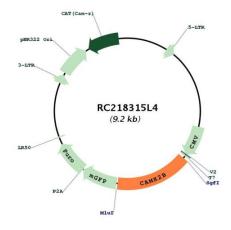
	AMK2B (NM_172082) Human Tagged Lenti ORF Clone – RC218315L4
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <u>custsupport@origene.com</u> or by calling 301.340.3188 option 3 for pricing and delivery.
	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 Met	 chod: 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:	<u>NM 172082.2</u>
RefSeq Size:	4064 bp
RefSeq ORF:	1479 bp
Locus ID:	816
UniProt ID:	<u>Q13554</u>
Cytogenetics:	7p13
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Calcium signaling pathway, ErbB signaling pathway, Glioma, GnRH signaling pathway, Long- term potentiation, Melanogenesis, Neurotrophin signaling pathway, Olfactory transduction, Oocyte meiosis, Wnt signaling pathway
MW:	55.2 kDa

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Gene Summary:The product of this gene belongs to the serine/threonine protein kinase family and to the
Ca(2+)/calmodulin-dependent protein kinase subfamily. Calcium signaling is crucial for
several aspects of plasticity at glutamatergic synapses. In mammalian cells, the enzyme is
composed of four different chains: alpha, beta, gamma, and delta. The product of this gene is
a beta chain. It is possible that distinct isoforms of this chain have different cellular
localizations and interact differently with calmodulin. Alternative splicing results in multiple
transcript variants. [provided by RefSeq, May 2014]

Product images:



Circular map for RC218315L4

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