

Product datasheet for RC217936L2

OriGene Technologies, Inc.

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Casein Kinase 1 alpha (CSNK1A1) (NM_001025105) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Casein Kinase 1 alpha (CSNK1A1) (NM_001025105) Human Tagged Lenti ORF Clone

Tag: mGFP

Symbol: Casein Kinase 1 alpha

Synonyms: CK1; CK1a; CKla; HEL-S-77p; HLCDGP1; PRO2975

Mammalian Cell None

Selection:

Vector: pLenti-C-mGFP (PS100071)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clone is exactly the same as(RC217936).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





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

ACCN: NM_001025105

ORF Size: 1095 bp



Casein Kinase 1 alpha (CSNK1A1) (NM_001025105) Human Tagged Lenti ORF Clone - RC217936L2

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: <u>NM 001025105.1</u>

 RefSeq Size:
 3149 bp

 RefSeq ORF:
 1098 bp

 Locus ID:
 1452

 UniProt ID:
 P48729

Cytogenetics: 5q32

Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase

Protein Pathways: Hedgehog signaling pathway, Wnt signaling pathway

MW: 41.8 kDa

Gene Summary: Casein kinases are operationally defined by their preferential utilization of acidic proteins

such as caseins as substrates. It can phosphorylate a large number of proteins. Participates in Wnt signaling. Phosphorylates CTNNB1 at 'Ser-45'. May phosphorylate PER1 and PER2. May

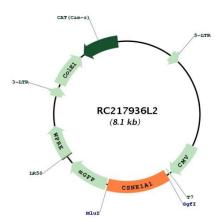
play a role in segregating chromosomes during mitosis (PubMed:11955436,

PubMed:1409656, PubMed:18305108). May play a role in keratin cytoskeleton disassembly and thereby, it may regulate epithelial cell migration (PubMed:23902688).[UniProtKB/Swiss-

Prot Function]



Product images:



Circular map for RC217936L2