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## Product datasheet for RC202435L3

## CSNK2A2 (NM_001896) Human Tagged Lenti ORF Clone

## Product data:

Product Type: Expression Plasmids
Product Name:

## Tag:

Symbol:
Synonyms:
Mammalian Cell
Selection:
Vector:
E. coli Selection:

ORF Nucleotide
Sequence:
Restriction Sites:
Cloning Scheme:
CSNK2A2 (NM_001896) Human Tagged Lenti ORF Clone
Myc-DDK
CSNK2A2
CK2A2; CK2alpha'; CSNK2A1
Puromycin
pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Chloramphenicol ( $34 \mathrm{ug} / \mathrm{mL}$ )
The ORF insert of this clone is exactly the same as(RC202435).

Sgfl-Mlul

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Cloning sites used for ORF Shuttling:



GAT CTG GCA GCA AAT GAT ATC CTG GAT TAC AAG GAT GAC GAC GAT AAG GTt TGGGTAGGAAG


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

ACCN:
ORF Size:

NM_001896
1050 bp

OTI Disclaimer:

OTI Annotation:

Components:

Reconstitution Method:

RefSeq:
RefSeq Size:
RefSeq ORF:
Locus ID:
UniProt ID:
Cytogenetics:
Domains:
Protein Families:
Protein Pathways:
MW:
Gene Summary:

1. Centrifuge at $5,000 \mathrm{xg}$ for 5 min .
2. Carefully open the tube and add 100 ul 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 5000 xg ) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at $-20^{\circ} \mathrm{C}$. The DNA is stable for at least one year from date of shipping when stored at $-20^{\circ} \mathrm{C}$.
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

This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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).

NM 001896.2
1674 bp
1053 bp
1459
P19784
16q21
pkinase, TyrKc, S_TKc
Druggable Genome, Protein Kinase
Adherens junction, Tight junction, Wnt signaling pathway
41.2 kDa

This gene encodes the alpha', or alpha 2, catalytic subunit of the protein kinase enzyme, casein kinase 2 (CK2). Casein kinase 2 is a serine/threonine protein kinase that phosphorylates acidic proteins such as casein. It is involved in various cellular processes, including cell cycle control, apoptosis, and circadian rhythms. This heterotetrameric kinase includes two catalytic subunits, either alpha or alpha', and two regulatory beta subunits. The closely related gene paralog encoding the alpha, or alpha 1 subunit (CSNK2A1, Gene ID: 1457) is found on chromosome 20. An intronic variant in this gene (alpha 2) may be associated with leukocyte telomere length in a South Asian population. A related transcribed pseudogene is found on chromosome 11. [provided by RefSeq, Aug 2017]

## Product images:



Circular map for RC202435L3

