

Product datasheet for RC220531L4

OriGene Technologies, Inc.

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CASK (NM_003688) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: CASK (NM_003688) Human Tagged Lenti ORF Clone

Tag: mGFP Symbol: CASK

Synonyms: CAGH39; CAMGUK; CMG; FGS4; hCASK; LIN2; MICPCH; MRXSNA; TNRC8

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-mGFP-P2A-Puro (PS100093)

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

ORF Nucleotide The ORF insert of this clone is exactly the same as(RC220531).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_003688

ORF Size: 2778 bp



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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 003688.1</u>

 RefSeq Size:
 3122 bp

 RefSeq ORF:
 2766 bp

 Locus ID:
 8573

 UniProt ID:
 014936

Cytogenetics: Xp11.4

Domains: pkinase, TyrKc, SH3, PDZ, S_TKc, L27, Guanylate_kin, GuKc

Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: Tight junction MW: 104.3 kDa

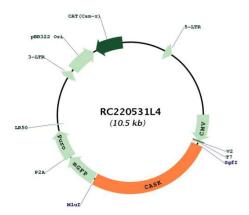
Gene Summary: This gene encodes a calcium/calmodulin-dependent serine protein kinase. The encoded

protein is a MAGUK (membrane-associated guanylate kinase) protein family member. These proteins are scaffold proteins and the encoded protein is located at synapses in the brain. Mutations in this gene are associated with FG syndrome 4, intellectual disability and microcephaly with pontine and cerebellar hypoplasia, and a form of X-linked intellectual disability. Multiple transcript variants encoding different isoforms have been found for this

gene. [provided by RefSeq, Jul 2017]



Product images:



Circular map for RC220531L4