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Product datasheet for RC201797L2V

Casein Kinase 1 alpha (CSNK1A1) (NM_001892) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Casein Kinase 1 alpha (CSNK1A1) (NM_001892) Human Tagged ORF Clone Lentiviral Particle
Symbol:	Casein Kinase 1 alpha
Synonyms:	CK1; CK1a; CKIa; HEL-S-77p; HLCDGP1; PRO2975
Mammalian Cell Selection:	None
Vector:	pLenti-C-mGFP (PS100071)
Tag:	mGFP
ACCN:	NM_001892
ORF Size:	1011 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC201797).
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.
RefSeq:	NM_001892.4
RefSeq Size:	3065 bp
RefSeq ORF:	1014 bp
Locus ID:	1452
UniProt ID:	P48729
Cytogenetics:	5q32
Domains:	pkinase, TyrKc, S_TKc
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase

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Protein Pathways:	Hedgehog signaling pathway, Wnt signaling pathway
MW:	38.7 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]