OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC323483

CCRK (CDK20) (NM_012119) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CCRK (CDK20) (NM_012119) Human Untagged Clone
Tag:	Tag Free
Symbol:	CCRK
Synonyms:	CCRK; CDCH; P42; PNQALRE
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_012119, the custom clone sequence may differ by one or more nucleotides

ATGGACCAGTACTGCATCCTGGGCCGCATCGGGGAGGGCGCCCACGGCATCGTCTTCAAGGCCAAGCACG
TGGAGACTGGCGAGATAGTTGCCCTCAAGAAGGTGGCCCTAAGGCGGTTGGAGGACGGCTTCCCTAACCA
GGCCCTGCGGGAGATTAAGGCTCTGCAGGAGATGGAGGACAATCAGTATGTGGTACAACTGAAGGCTGTG
TTCCCACACGGTGGAGGCTTTGTGCTGGCCTTTGAGTTCATGCTGTCGGATCTGGCCGAGGTGGTGCGCC
ATGCCCAGAGGCCACTAGCCCAGGCACAGGTCAAGAGCTACCTGCAGATGCTGCTCAAGGGTGTCGCCTT
CTGCCATGCCAACAACATTGTACATCGGGACCTGAAACCTGCCAACCTGCTCATCAGCGCCTCAGGCCAG
CTCAAGATAGCGGACTTTGGCCTGGCTCGAGTCTTTTCCCCAGACGGCAGCCGCCTCTACACACACCAGG
TGGCCACCAGGTCTGTGGGCTGCATCATGGGGGAGCTGTTGAATGGGTCCCCCCTTTTCCCGGGCAAGAA
CGATATTGAACAGCTTTGCTATGTGCTTCGCATCTTGGGCACCCCAAACCCTCAAGTCTGGCCGGAGCTC
ACTGAGCTGCCGGACTACAACAAGATCTCCTTTAAGGAGCAGGTGCCCATGCCCCTGGAGGAGGTGCTGC
CTGACGTCTCTCCCCAGGCATTGGATCTGCTGGGTCAATTCCTTCTCTACCCTCCTCACCAGCGCATCGC
AGCTTCCAAGGCTCTCCTCCATCAGTACTTCTTCACAGCTCCCCTGCCTGCCCATCCATCTGAGCTGCCG
ATTCCTCAGCGTCTAGGGGGACCTGCCCCCAAGGCCCATCCAGGGCCCCCCCACATCCATGACTTCCACG
TGGACCGGCCTCTTGAGGAGTCGCTGTTGAACCCAGAGCTGATTCGGCCCTTCATCCTGGAGGGGTGA

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5' Read Nucleotide Sequence:

>OriGene 5' read for mutant NM_012119 unedited
CCCGCCGTCTCAGCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGA
ACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGGGAGAAGTGGAGT
TTGGAAGTTCAGGGGCACAGGGGCACAGGCCCACGACTGCAGCGGGATGGACCAGTACTGCATCCTGGGC
CGCATCGGGGAGGGCGCCCACGGCATCGTCTTCAAGGCCAAGCACGTGGAGACTGGCGAGATAGTTGCCC
TCATGAAGGTGGCCCTAAGGCGGTTGGAAGACGGCTTCCCTAACCAGGCCCTGCGGGAGATTAAGGCTCT
GCAGGAGATGGAGGAACAATCAGTATGTGGTACAACTGAAGGCTGTTGTTCCCACACGTGGAAGGCTTTG
GTGCTGGCCTTGAATTTCATGCTGTCGGATCTGGCCGAAGGTGGTGGCGCCATGCCAGAGGCCACTAGCC
AGCACAGGTCAGAAGCTACCTGAAATGCCTGCTCAGGTTGCCGCTTCCGCATTGCCAACCACATGGACCT
TCGGGACCTGGAAGCTGGCGACCTGGCTAACGCGCTAAGGCGGCTAGATTAGCGGACTTGGCCTGCTCGA
TCCTTCCAGAGGAACCGCTCTACACCACAGTGCCACATTGTGCTTGACTGGGGACTGTAATGTCCCTTCC
GGAACACATGAACTATAATAGTTGTCATGGCCC

Kinase Domain Sequence:

>SC323483 kinase domain raw sequence. By performing BLASTX analysis with this sequence against NCBI refernce protein database, you can confirm the presence of the kinase-deficient mutation
CYATTMGCATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAACCGTCA
GAATTTTGTAATACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGGGAGAAGTGGAGTTTGGAAG
TTCAGGGGCACAGGGGCACAGGCCCACGACTGCAGCGGGATGGACCAGTACTGCATCCTGGGCCGCATCG
GGGAGGGCGCCCACGGCATCGTCTTCAAGGCCAAGCACGTGGAGA

Restriction Sites: Please inquire

ACCN: NM_012119

Insert Size: 1850 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This kinase-deficient mutant clone was generated by created by site-directed mutagenesis from the corresponding wild-type clone. See details in "Application of active and kinase-deficient kinome collection for identification of kinases regulating hedgehog signaling." Cell. 2008 May p536-548.

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: NM_012119.2, NP_036251.2

RefSeq Size: 2250 bp

RefSeq ORF: 978 bp

Locus ID:	23552
UniProt ID:	Q8IZL9
Cytogenetics:	9q22.1
Domains:	pkinase, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
Gene Summary:	The protein encoded by this gene contains a kinase domain most closely related to the cyclin-dependent protein kinases. The encoded kinase may activate cyclin-dependent kinase 2 and is involved in cell growth. Alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq, Dec 2009] Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 5' coding region, compared to variant 1. This results in a shorter protein (isoform 2), compared to isoform 1.