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Product datasheet for SC323704

CDC2L5 (CDK13) (NM_003718) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDC2L5 (CDK13) (NM_003718) Human Untagged Clone
Tag:	Tag Free
Symbol:	CDK13
Synonyms:	CDC2L; CDC2L5; CHDFIDD; CHED; hCDK13
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_003718, the custom clone sequence may differ by one or more nucleotides

ATGCCGAGCAGCTCGGACACGGCGCTGGGGGGAGGCGGGGGCCTGAGCTGGGCGGAGAAGAAGTTGGAGG
AACGCCGCAAGCGGAGGCGATTCCTGTCCCCTCAGCAGCCGCCGCTGCTGTTGCCGCTCCTGCAGCCGCA
GCTCCTGCAACCGCCGCCGCCCCCGCCGCCTCTGCTCTTCCTGGCTGCTCCCGGCACGGCCGCCGCCGCA
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GAGGCAAGAGGCGCGCAGGAGGGCGGCAGAAGCGGCGTCGCGGGCCCCGCGCCGGGCAGGAGGCGGAGAA
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CGGCAACGGCGGCGACGGCTGCCGGGGGAACGGGGGGCAGCGGCGGGAGTCCGGCCTCCTCCTCCGGCAC
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GCTCCTACGAGCGGGGCGGCGACGTGTCCCCTAGTCCCTACAGCAGCAGCAGCTGGCGCCGCTCTCGCAG
TCCCTACAGCCCTGTGCTCAGACGGTCTGGAAAATCCCGAAGCAGAAGCCCGTATTCATCTAGGCATTCA
AGATCTCGTAGCAGGCACAGATTGTCTAGATCCAGAAGTCGTCATTCTAGTATTTCTCCTAGCACACTAA
CTCTGAAGAGTAGCCTGGCAGCTGAATTGAACAAGAATAAAAAAGCACGAGCAGCAGAGGCAGCAAGAGC
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ATGTGAAGAAAATTAAAATTGAACATGCACCTTCTCCCTCAAGTGGTGGAACTTTAAAAAATGACAAAGC

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AAAAACAAAGCCACCTCTTCAGGTAACGAAGGTGGAAAATAATTTGATTGTAGATAAAGCCACCAAGAAA
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TCAGCATCAGCCCCAGGATGACCCCAAAAGAGAAGGTGGGATTGATTATCAAGCAGGAGACACTTACGTG
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GGATAACTACAGTACTGCTTCATCTCATTCTGGTGGTCCACCTCAGCCTTCTGCCTTTTCTGAGTCATTT
CCCAGTTCAGTAGCTGGATATGGAGACATTTACCTCAATGCTGGTCCCATGTTGTTTAGTGGAGACAAGG
ACCATAGATTTGAATATAGCCATGGTCCTATTGCAGTCCTGGCAAACAGCAGTGACCCTTCCACGGGGCC
AGAGAGTACTCATCCTTTGCCAGCAAAGATGCACAACTATAACTATGGTGGTAACTTACAGGAAAATCCG
AGTGGCCCCAGCCTCATGCATGGACAGACCTGGACTTCTCCTGCCCAAGGACCTGGATATTCACAAGGAT
ACAGGGGACATATTAGCACATCAACTGGCAGAGGCAGAGGCAGAGGGTTACCATACTGA

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_003718 unedited
ACCGCCCGTTCGAGCAAAGGGCGGTAGGCGTGTACGGCGGGAGGTCTATATAAGCAGAGCTCATTTAGGT
GACACTATAGAATACAAGCTACTTTGTTCTTTTTGCAGCGGCCGCGAATTCGGCACGAGGGTGGCGCTTT
TCCCGGCCGGCTCTGGTGCTCGGTGTCCCTCCGCCGCCGCTCCCGTTTCCGGCGGGGGAGATGGCCAGGA
TCTGACCCGGGAGGAGGCCGCACCCGCGCCGCGCTCTGCGGCTGGCTCTAGGCGATGCCGAGCAGCTCGG
ACACGGCGCTGGGGGGAGGCGGGGGCCTGAGCTGGGCGGAGAAGAAGTTGGAGGAACGCCGCAAGCGGAG
GCGATTCCTGTCCCCTCGGCAGCCGCCGCTGCTGTTGCCGCTCCTGCAGCCGCAGCTCCTGCGGGCGCCG
CCGCCCCCGCCGCCTCTGCTCTTCGTGGCTGCTGCCGGCACGGCCGCCCGCCACAGCCACCGCTGCCACC
GTTCAAGAATCGTAATTCTGCCCCCAGAGCCCTCAAATTATAAACGAACATGGACGGCCGTCAGTAAAGC
TGATTTCGAACTACCATGCCTTGGACGGAGTGGGAGGAGCAGTTTCTCATAAGTTTAAACATGGCTCCAT
CATATTAATGCGGACATTTTACAAGGATGTTAACTCCTCTCACCCGTATAGTTGAACAAGAAATAGCCCA
TTAGCAGAATTACGTCAGATCATACTACGAGACGCCCGCCCGAA
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Kinase Domain Sequence:

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>SC323704 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
GTARCTTTAGTCACTCTACTTACCACCGTTACCTTTGCCTCCCATGCTGCCTGAAGATAAAGAAGCTGAT
AGCTTACGAGGAAATATTTCAGTAAAAGCAGTTAAAAAAGAAGTAGAAAAGAAACTCCGATGTCTTCTTG
CTGATTTACCGCTGCCCCCTGAGCTACCAGGAGGAGATGATCTTTCAAAGAGTCCAGAGGAAAAGAAAAC
AGCAACACAGTTACATAGTAAAAGGAGGCCTAAAATATGTGGGCC
```

Restriction Sites: Please inquire

ACCN: NM_003718

Insert Size: 3500 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_003718.2, NP_003709.2

RefSeq Size: 5246 bp

RefSeq ORF: 4539 bp

Locus ID:	8621
UniProt ID:	Q14004
Cytogenetics:	7p14.1
Protein Families:	Druggable Genome, Protein Kinase
Gene Summary:	The protein encoded by this gene is a member of the cyclin-dependent serine/threonine protein kinase family. Members of this family are well known for their essential roles as master switches in cell cycle control. The exact function of this protein has not yet been determined, but it may play a role in mRNA processing and may be involved in regulation of hematopoiesis. Alternatively spliced transcript variants have been described.[provided by RefSeq, Dec 2009] Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).