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Product datasheet for SC323440

CLK1 (NM_004071) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CLK1 (NM_004071) Human Untagged Clone
Tag:	Tag Free
Symbol:	CLK1
Synonyms:	CLK; CLK/STY; STY
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

>OriGene ORF within SC323440 sequence for NM_004071 edited (data generated by NextGen Sequencing)
ATGAGACACTCAAAGAGAACTTACTGTCCTGATTGGGATGACAAGGATTGGGATTATGGA
AAATGGAGGAGCAGCAGCAGTCATAAAAGAAGGAAGAGATCACATAGCAGTGCCCAGGAG
AACAAGCGCTGCAAATACAATCACTCTAAAATGTGTGATAGCCATTATTTGGAAAGCAGG
TCTATAAATGAGAAAGATTATCATAGTCGACGCTACATTGATGAGTACAGAAATGACTAC
ACTCAAGGATGTGAACCTGGACATCGCCAAAGAGACCATGAAAGCCGGTATCAGAACCAT
AGTAGCAAGTCTTCTGGTAGAAGTGGAAGAAGTAGTTATAAAAGCAAACACAGGATTCAC
CACAGTACTTCACATCGTCGTTCACATGGGNAGAGTCACCGAAGGAAAAGAACCAGGAGT
GTAGAGGATGATGAGGAGGGTCACCTGATCTGTCAGAGTGGAGACGTACTAAGTGCAAGA
NATGAAATTGTTGATACTTTAGGTGAAGGAGCTTTTGGAAAAGTTGTGGAGTGCATCGAT
CATAAAGCGGGAGGTAGACATGTAGCAGTAATGATAGTTAAAAATGTGGATAGATACTGT
GAAGCTGCTCGCTCAGAAATACAAGTTCTGGAACATCTGAATACAACAGACCCCAACAGT
ACTTTCCGCTGTGTCCAGATGTTGGAATGGTTTGAGCATCATGGTCACATTTGCATTGTT
TTTGAACTATTGGGACTTAGTACTTACGACTTCATTAAAGAAAATGGGTTTCTACCATTT
CGACTGGATCATATCAGAAAGATGGCATATCAGATATGCAAGTCTGTGAATTTTTTGCAC
AGTAATAAGTTGACTCACACAGACTTAAAGCCTGAAAACATCTTATTTGTGCAGTCTGAC
TACACAGAGGCGTATAATCCCAAAATAAAACGTGATGAACGCACCTTAATAAATCCAGAT
ATTAAAGTTGTAGACTTTGGTAGTGCAACATATGATGACGAACATCACAGTACATTGGTA
TCTACAAGACATTATAGAGCACCTGAAGTTATTTTAGCCCTAGGGTGGTCCCAACCATGT
GATGTCTGGAGCATAGGATGCATTCTTATTGAATACTATCTTGGGTTTACCGTATTTCCA
ACACACGATAGTAAGGAGCATTTAGCAATGATGGAAAGGATTCTTGGACCTCTACCAAAA
CATATGATACAGAAAACCAGGAAACGTAAATATTTTCACCACGATCGATTAGACTGGGAT
GAACACAGTTCTGCCGGCAGATATGTTTCAAGACGCTGTAAACCTCTGAAGGAATTTATG
CTTTCTCAAGATGTTGAACATGAGCGTCTCTTTGACCTCATTCAGAAAATGTTGGAGTAT
GATCCAGCCAAAAGAATTACTCTCAGAGAAGCCTTAAAGCATCCTTTCTTTGACCTTCTG
AAGAAAAGTATATAG

Clone variation with respect to NM_004071.3
391 a=>n;481 t=>n;572 a=>t;573 a=>g;768 t=>g

5' Read Nucleotide Sequence:

>OriGene 5' read for mutant NM_004071 unedited
CGCCGTTGAGCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAACC
GTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGGCGACGCAGTCAGCTG
CGTGATTCCCGTGATTGCGTTACAAGCTTTGTCTCCTTCGACTTGGAGTCTTTGTCCAGGACGATGAGAC
ACTCAAAGAGAACTTACTGTCCTGATTGGGATGACAAGGATTGGGATTATGGAAAATGGAGGAGCAGCAG
CAGTCATAAAAGAAGGAAGAGATCACATAGCAGTGCGCCAGGAGAACAAGCGCTGCAAATACAATCACTC
TAAAATGTGTGATAGCCATTATTTGGAAAGCAGGTCTATAAATGAGAAAAGATTATCATAGTCGACGCTA
CATTGATGGAGTACAGAAATGACTCACTCAGGGATGGTGACCCTGGGACATCGCCAAGAAGACAATGAAA
CCCGTTATCAAACCCATGGTAGCAGTTCTTTCGGGTAAAGTGGGAGAAGGTGGTTATAAAGCCAAAACCA
GGATTACCCAGGACCTTACCACCGGTGTTTCATTGGGGAAAGACCGTTTTAAAACATTTGGAATTTATTC
CATGGGAACGGGGAACTTGATTTGTGTGATATATTAAAAGTTTTAAAAGATCTCTCACTTTTACCGGGAG
ATTTTTGTGTGTTGCCTGGGAGGAATTCCAGAAAAGACACATTGTGTCAATATATATGTGTGGCTCATGC
ACCCGGAGATGAGGGTATAGTGTATTTGAAGTTGAAATTTCCAAGTCTCACGGTTGTGTGCTCCGAACTG
CTATGTTCTAGTACCCAGTGACCGACGCTCTGGTACTCTAAGATGTCGTCTGCGCATAGTATATC

Kinase Domain Sequence:

>SC323440 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
TGAMGTMTAGTGCAGATGTWAGAATATTTTTCACACTTATTAACTTTTCAGATAACATAATCTATATATA
GATTAAGCTTTCAGGGATTTGGAAATCTTTTTTTCTTTCTCTTTTTTGTTTTTGTTTTATTTTTCCATTT
CTTTTGGTGGGGGGGATTGTATTTTTGCTTTCTTTAGAAATGTAATGTTTGTTATATAGAACTTCCAGAA
CAGTAATCAAATTAATGAAATTAGACCTAATAATTATGTTTTTTG

Restriction Sites:	Please inquire
ACCN:	NM_004071
Insert Size:	2000 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_004071.2, NP_004062.2
RefSeq Size:	1887 bp
RefSeq ORF:	1455 bp
Locus ID:	1195
UniProt ID:	P49759
Cytogenetics:	2q33.1
Domains:	pkinase, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
Gene Summary:	This gene encodes a member of the CDC2-like (or LAMMER) family of dual specificity protein kinases. In the nucleus, the encoded protein phosphorylates serine/arginine-rich proteins involved in pre-mRNA processing, releasing them into the nucleoplasm. The choice of splice sites during pre-mRNA processing may be regulated by the concentration of transacting factors, including serine/arginine rich proteins. Therefore, the encoded protein may play an indirect role in governing splice site selection. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2009] Transcript Variant: This variant (1) encodes the shorter isoform (1).