

Product datasheet for **SC323400**

Snf1lk2 (SIK2) (NM_015191) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Snf1lk2 (SIK2) (NM_015191) Human Untagged Clone
Tag:	Tag Free
Symbol:	Snf1lk2
Synonyms:	LOH11CR1I; QIK; SIK-2; SNF1LK2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC323400 sequence for NM_015191 edited (data generated by NextGen Sequencing)

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ATGGTCATGGCGGATGGCCCCGAGGCACTTGCAGCGCGGGCCGGTCCGGGTGGGGTCTCTAC
GACATCGAGGGCACGCTGGGCAAGGGCAACTTCGCTGTGGTGAAGCTGGGGCGGCACCGG
ATCACCAAGACGGAGGTGCAATAATGATAATCGATAAGTCTCAGCTGGATGCAGTGAAC
CTTGAGAAAATCTACCGAGAAGTACAAATAATGAAAATGTTAGACCACCCTCACATAATC
AACTTTATCAGGTAATGGAGACAAAAGTATGTTGTACCTTGTGACAGAATATGCCAAA
AATGGAGAAAATTTTACTATCTTGCTAATCATGGCCGGTTAAATGAGTCTGAAGCCAGG
CGAAAATCTGGCAAATCCTGTCTGCTGTTGATTATTGTCATGGTCGGAAGATTGTGCAC
CGTGACCTCAAAGCTGAAAATCTCCTGCTGGATAACAACATGAATATCAAATAGCAGAT
TTCGGTTTTGAAAATTTCTTTAAAAGTGGTGAAGTCTGGCAACATGGTGTGGCAGCCCC
CCTTATGCAGCCCCAGAAGTCTTTGAAGGGCAGCAGTATGAAGGACCACAGCTGGACATC
TGGAGTATGGGAGTTGTTCTTTATGTCCTTGTCTGTGGAGCTCTGCCCTTTGATGGACCG
ACTCTTCCAATTTTGGAGCAGAGGGTTCTGGAAGGAAGATTCCGGATTCCGATTTTCATG
TCAGAAGATTGCGAGCACCTTATCCGAAGGATGTTGGTCTAGACCCATCCAAACGGCTA
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GTTCTCTATCCACAAGAGCAAGAAAATGAGCCATCCATCGGGGAGTTTAAATGAGCAGGTT
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AAGAGCTATAACCACTTTGCTGCCATTTATTTCTTGTGGTGGAGCGCCTGAAATCACAT
CGGAGCAGTTTCCAGTGGAGCAGAGACTTGATGGCCGCCAGCGTCGGCCTAGCACCATT
GCTGAGCAAACAGTTGCCAAGGCACAGACTGTGGGGCTCCAGTACCATGCATTACCCG
AACATGAGGCTGCTGCGATCTGCCCTCCTCCCCAGGCATCCAACGTGGAGGCCTTTTCA
TTTCCAGCATCTGGCTGTGAGCGGAAGCTGCATTATGGAAGAAGAGTGTGTGGACT
CCAAAGGTCAATGGCTGTCTGCTTGACCCTGTGCCTCCTGTCTGGTGGGAAAGGATGC
CAGTCACTGCCAGCAACATGATGGAGACCTCCATTGACGAAGGGCTGGAGACAGAAGGA
GAGGCCGAGGAAGACCCGCTCATGCCTTTGAGGCATTTAGTCCACACGCAGCGGGCAG
AGACGGCACACTCTGTCAGAAGTGACCAATCAACTGGTCTGATGCCTGGGGCAGGGAAA

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ATTTTCTCCATGAATGACAGCCCCTCCCTTGACAGTGTGGACTCTGAGTATGATATGGGG
TCTGTTACAGAGGGACCTGAACTTTCTGGAAGACAACCCTTCCCTTAAGGACATCATGTTA
GCCAATCAGCCTTCAACCCGCATGACATCTCCCTTATAAGCCTGAGACCTACCAACCCA
GCCATGCAGGCTCTGAGCTCCAGAAACGAGAGGTCCACAACAGGTCTCCAGTGAGCTTC
AGAGAGGGCCGCAGAGCATCAGATACCTCCCTCACCCAGGGAATTGTAGCATTAGACAA
CATCTTCAGAATCTGGCTAGAACCAAAGGAATTCTAGAGTTGAACAAAGTGCAGTTGTTG
TATGAACAAATAGGACCCGAGGCAGACCTAACCTGGCGCGGGCGCTCCTCAGTCCAG
GACCTTGTAGCAGCTGCCCTCAGGAAGAAGTTTCTCAGCAGCAGGAAAGCGTCTCCA
CTCCCTGCCAGCGTGCATCCCCAGCTGTCCCCACGGCAGAGCCTGGAGACCCAGTACCTG
CAGCACAGACTCCAGAAGCCAGCCTTCTGTCAAAGGCCAGAACACCTGTGAGCTTTAT
TGCAAAGAACCACCGGGAGCCTTGAGCAGCAGCTGCAGGAACATAGGCTCCAGCAGAAG
CGACTCTTTCTCAGAAGCAGTCTCAACTGCAGGCCTATTTAATCAGATGCAGATAGCA
GAGAGCTCCTACCCACAGCCAAGTCAGCAGCTGCCCTTCCCCGCCAGGAGACTCCACCG
CCTTCTCAGCAGGCCCCACCGTTAGCCTGACCCAGCCCTGAGCCCCGTCTGGAGCCT
TCCTCCGAGCAGATGCAATACAGCCCTTCTCAGCCAGTACCAAGAGATGCAGTTCAG
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CAGCAGCCGCCACCGCCACCACCCTCCACCACCACGACAGCCAGGAGCTGCCCCAGCC
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TATCCCACTCCCTGTCAGTATCCTGTGGATGGAGCCAGCAGAGCGACCTAACGGGGCCA
GACTGTCCAGAAGCCAGGACTGCAAGAGGCCCTCCAGCTACGACCCACTAGCCCTC
TCTGAGCTACCTGGACTTTTGATTGTGAAATGCTAGACGCTGTGGATCCACAACACAAC
GGGTATGTCCTGGTGAATTAG

Clone variation with respect to NM_015191.1
146 a=>t;147 a=>g

5' Read Nucleotide Sequence:

>OriGene 5' read for mutant NM_015191 unedited
CCCCCGTTGTGCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAA
CCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCGGGCGCGCGCC
TGCTGGGCCCTGCGGAGCGGGAGGGAAGGAGCGAAGGAGCAAGCGGAGCGGCCGTCGCCCA
AGCCAAGCCGCGCTGCCAACCTCCCCGCCCGCGCTCCTGTCCGCCGTGCTAGCAGCGGGGCCCA
CATGGTCAATGGCGGATGGCCGAGGCACTTGCAGCGCGGGCCGGTCCGGGTGGGGTTCTACGACATCC
GAGGGGCACGCTTGGGCAAGGGCAACTTCGCTGTGGTGGAAAGCTGGGGCCGGCACCCGAATCACCAAG
AACGGAAGGTGGGCAATAAGGATAATCATTAAATTTCTAAGCTTGGATGCAGTGGAACTGGGAAAAAACC
TACCGAAAAGACACAAATAAGGAAAAGTGTAAAACCCCCCTCATATATCAAATTTTTTCGGGAAGGGG
AAACCAAAGTTTTGGTTATCCCTTTGTGACGAAATGCCCAAAGGGGAAAAATTTTACAATACTGGGAA
ACCGGGCCGTTAAAAAGACTCAAAACCCAGGAAAAATTTGGGAAAACCCGGTCCGGTGAATTTGGCCGG
GGGCAAAAAAATGGCCCCGGGACCCAAACTAAAAAATTCGGGGGGATAACCACGGGAATATAAAAAATAG
AATTTTGTGTTTGGGAAATTTTTTAAAGGGGGAAACGCGGGGCACAGGGGGGGGAGCCCCCCTATTA
TGCCCCAAATTTTTTTTTAGGGCGCACTTAAAGACACACACCTGGCAGCTCCGGTGATGTGAGTGTTT
CTTATTACTGTCGTGGAGCGTCTTCGATGGAGCACACATTATTATTGCGAAGATATGTGAGACAG
AATGCGATGCCTGCTCATATTGCTA

Kinase Domain Sequence:

>SC323400 kinase domain raw sequence. By performing [BLASTX](#) analysis with this sequence against NCBI reference protein database, you can confirm the presence of the kinase-deficient mutation
CCCTGMCATGGGCGGTAGGCKGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAACCGTCAG
AATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCGGGCGCGCGCCTGGCTGG
GCCCTGCGGAGCGGGAGGGAAGGAGCGAAGGAGCAAGGAGCAAGCGGAGCGGCCGTCGCCCAAGCCAAG
CCGCGTGCCAACCTCCCCGCCCGCGCTCCTGTCCGCCGTG

Restriction Sites:

Please inquire

ACCN:

NM_015191

Insert Size:	4730 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." <u>Cell</u> , 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:	<ol style="list-style-type: none">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_015191.1, NP_056006.1</u>
RefSeq Size:	5694 bp
RefSeq ORF:	2781 bp
Locus ID:	23235
UniProt ID:	<u>Q9H0K1</u>
Cytogenetics:	11q23.1
Protein Families:	Druggable Genome, Protein Kinase
Gene Summary:	Phosphorylates 'Ser-794' of IRS1 in insulin-stimulated adipocytes, potentially modulating the efficiency of insulin signal transduction. Inhibits CREB activity by phosphorylating and repressing TORCs, the CREB-specific coactivators.[UniProtKB/Swiss-Prot Function]