

Product datasheet for **SC323562**

Snf1lk (SIK1) (NM_173354) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Snf1lk (SIK1) (NM_173354) Human Untagged Clone
Tag:	Tag Free
Symbol:	Snf1lk
Synonyms:	DEE30; MSK; SIK; SIK-1; SIK1B; SNF1LK
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC323562 sequence for NM_173354 edited (data generated by NextGen Sequencing)

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ATGGTTATCATGTCTGGAGTTCAGCGCGGACCCCGCGGGCCAGGGTCAGGGCCAGCAGAAG
CCCCTCCGGGTGGGTTTTTACGACATCGAGCGGACCCCTGGGCAAAGGCAACTTCGCGGTG
GTGAAGCTGGCGCGGCATCGAGTCACAAAACGCAGGTTGCAATAATGATAATTGATAAA
ACACGATTAGATTCAAGCAATTTGGAGAAAATCTATCGTGAGGTTTACGCTGATGAAGCTT
CTGAACCATCCACACATCATAAAGCTTTACCAGGTTATGGAAACAAAGGACATGCTTTAC
ATCGTCACTGAATTTGCTAAAAATGGAGAAATGTTTGATTATTTGACTTCCAACGGGCAC
CTGAGTGAGAACGAGGCGCGGAAGAAGTTCTGGCAAATCCTGTGCGCCGTGGAGTACTGT
CACGACCATCACATCGTCCACCGGGACCTCAAGACCGAGAACCTCCTGTGGATGGCAAC
ATGGACATCAAGCTGGCAGATTTTGGATTTGGGAATTTCTACAAGTCAGGAGAGCCTCTG
TCCACGTGGTGTGGGAGCCCCCGTATGCCGCCCGGAAGTCTTTGAGGGGAAGGAGTAT
GAAGGCCCCAGCTGGACATCTGGAGCCTGGGCGTGGTGTACGTCTGGTCTGCGGT
TCTCTCCCCTTCGATGGCCTAACCTGCCGACGCTGAGACAGCGGTGCTGGAGGGCCGC
TTCCGCATCCCCTTCTTATGTCTCAAGACTGTGAGAGCCTGATCCGCCCATGTGGTGT
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GAGCCCTGCTTGGCGGGACCCGCTGCCCGCCTTCTCCGCACACAGCTACACCTCCAAC
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CTCCTTGAGCGGCTCAAGGAGTATCGGAATGCCAGTGCGCCCGCCCCGGGCTGCCAGG
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CTCCAGGCCGAGATGACTGTGAGCTCCAGAGCTCGCTGCAGTGGCCCTGTTCTTCCCG
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GACACAGCCATCAGTGAGGAGGCCAGGCAGGGCCGGGCTAGAGGAGGAGCAGGACACG
CAGGAGTCCCTGCCAGCAGCACGGGCCGAGGCACACCTGGCCGAGGTCTCCACCCGC
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GAGGGAACAGCTCTGACAGTTGTCTGACCTTCTCTGCGAGCAAAGCCCCGCGGGGCTC
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CCCTTCTGGGGTCCGAGTCCGCCACCCAGTGTGTCAGGCTCAGGGGGCTTGGGAGGA
GCTGTTCTGCTCCCTGTGAGCTTCCAGGAGGACGGCGGGCGTGGACACCTCACTGACT
CAAGGGCTGAAGGCCTTTCGGCAGCAGCTGAGGAAGACCACGCGTACCAAGGGTTTCTG
GGACTGAACAAAATCAAGGGGCTGGCTCGCCAGGTGTGCCAGGCCCCCGCAGCCGGGCC
AGCAGGGGCGGCCTGAGCCCTTCCACGCCCTGCACAGAGCCAGGCTGCACGGCGGC
GCAGCCGCGCAGCCGGGAGGGCTGGAGCCTGCTGGAGGAGGTGCTAGAGCAGCAGAGGCTG
CTCCAGTTACAGCACCACCGCCGCTGCACCCGGCTGCTCCAGGCCCCCGCAGCCGGCC
CCTGCCCGTTTGTGATCGCCCTGTGATGGCCCTGGGCTGCCCGCTCCCGAGCACC
CTCCTCACGTGGGGCTCCCGCTGCTGCCGCCCACTCCTGCAGACCGGCGCGTCCCGG
GTGGCCTCAGCGGCGCAGCTCCTGGACACACCTGCACATTGGCACCGGCCCCACCGCC
CTCCCGCTGTGCCCCACACGCTGGCCAGGCTGGCCCAAGTTGTGAGCCCTGGGG
CTGCTGCAGGGGACTGTGAGATGGAGGACCTGATGCCCTGCTCCCTAGGCACGTTTGTG
CTGGTGCAGTGA
    
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Clone variation with respect to NM_173354.3
 167 a=>t;168 a=>g;1785 g=>t

5' Read Nucleotide Sequence:	>OriGene 5' read for mutant NM_173354 unedited ACGCCGTTTGTAGCAATGGGCGGTAGGCGCTGTACGGCTGTGGAGGTCTATATAAGCAGAGCTCATTTAGGCTGACACTATAGAATACAAGCTACTATGTTCTTTTTGCAGCGGCCGGAATTCGGCACGAGGCCGGAGGCAGCAGCAGCGCGCGGCGGAGCCGGAGCAGTAGGCACCCGAGCAGCGCCAGCGGCCGAGCGGGCGGCTTCC TGGCCTGGGCGCTCCGGTGGCGCGGAGGTGCGCGCGGAGCCATGGTTATCATGTGCGAGTTCAGCGCGG ACCCCGCGGGCCAGGGTCAGGGCCAGCAGAAGCCCTCCGGTGGGTTTTTACGACATCGAGCGGACCT GGGCAAAGGCAACTTCGCGGTGGTGAAGCTGGCGCGCATCGAGTCACCAAACGCAGGTTGCAATAATG ATAATTGATAAAAACACGATTAGATTCAAGCAATTTGGAGAAAATCTATCGTGAGGTTTCAGCTGATGAAGC TTCTGAACCATCCACACATCATAAAGCTTTACCAGGTTATGAAAACAAAGGACATGCTTTACATCGTCAC TGATTTGTAAAAATGGAGAAATGTTTGATTATTTGACTTCCACGGGCACTGAGTGAGACCGAGGCGCGA GAGTTCTGGCAAATCCTTGTGCGCCGGTGGGAGTACTGTCACCGACATCCACATCGTCCACCGGGACCTC AGAACCGAAGACCTCTGCTGAATGCAACATGAACTCAGGCTGCGATTTTGAATTTGGAATTTCTACAGTC AGGAAAGCCCTCTGTCTTTGGGTGGGGAGCCCCGTATGCCGCCGGGAGTCTTTGAGGAAGAGATT AGAAGGCCCCACCTGAACTCTGAACTGGCGTGTGTGCTGACGTCTGATCACGTCTCCCTCGCATGGC TACTGGCAGCTGAACCGTCTCTGAGCCATTGCGCATCGA
Kinase Domain Sequence:	>SC323562 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 CSTTGMGCAATGGGCGGTAGGCGGTACGGTGGGAGGTCTATATAAGCAGAGCTCATTTAGGTGACACTA TAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCGGAATTCGGCACGAGGCCGGAGGCAGCAGCAGCG GCGGCGGAGCCGAGCAGTAGGCACCCGAGCAGCGCCAGCGGCCGAGCGGGCGGCTTCTGGCCTGGG GCTCCGGTGGCGCGGAGGTGCGCGGAGCCATGGTTATCATGT
Restriction Sites:	Please inquire
ACCN:	NM_173354
Insert Size:	4500 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:	<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:	NM_173354.2 , NP_775490.1

RefSeq Size: 4723 bp

RefSeq ORF: 2352 bp

Locus ID: 150094

UniProt ID: [P57059](#)

Cytogenetics: 21q22.3

Protein Families: Druggable Genome, Protein Kinase

Gene Summary: This gene encodes a serine/threonine protein kinase that contains a ubiquitin-associated (UBA) domain. The encoded protein is a member of the adenosine monophosphate-activated kinase (AMPK) subfamily of kinases that play a role in conserved signal transduction pathways. A mutation in this gene is associated with early infantile epileptic encephalopathy 30. [provided by RefSeq, Nov 2016]