

## Product datasheet for **RG206169**

### **Snf1lk (SIK1) (NM\_173354) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Snf1lk (SIK1) (NM_173354) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Snf1lk
Synonyms:	DEE30; MSK; SIK; SIK-1; SIK1B; SNF1LK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG206169 representing NM\_173354  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGTTATCATGTTCGGAGTTCAGCGCGGACCCCGCGGGCCAGGGTCAGGGCCAGCAGAAGCCCTCCGGG  
 TGGGTTTTTACGACATCGAGCGGACCTGGGCAAAGGCAACTTCGCGGTGGTGAAGCTGGCGCGCATCG  
 AGTCACCAAAAACGCAGGTTGCAATAAAAAATAATTGATAAAAACACGATTAGATTCAAGCAATTTGGAGAAA  
 ATCTATCGTGAGGTTTCAGCTGATGAAGCTTCTGAACCATCCACACATCATAAAGCTTTACCAGGTTATGG  
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 CAACGGGCACCTGAGTGAGAACGAGGCGCGGAAGAAGTTCTGGCAAATCCTGTCGGCCGTGGAGTACTGT  
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 AGCGGGTGTGGAGGGCCGCTTCCGCATCCCTTCTTCATGTCTCAAGACTGTGAGAGCCTGATCCGCCG  
 CATGCTGGTGGTGGACCCCGCCAGGCGCATCACCATCGCCAGATCCGGCAGCACCGGTGGATGCGGGCT  
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 ACGATGAGCAGGCGCTGGGTATCATGCAGACCTGGGCGTGGACCGGCAGAGGACGGTGGAGTCACTGCA  
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 GCAGTCCGTCTCCAGGCCGAGATGGACTGTGAGCTCCAGAGCTCGCTGCAGTGGCCCTTGTCTTCCCG  
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 TCAGTGAGGAGGCCAGGCAGGGCCGGGCTAGAGGAGGAGCAGGACACGCAGGAGTCCCTGCCAGCAG  
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 GTCTCCCTCCACCACGGCAAGTCTGCAGAGGGAACCAGCTCTGACAGTTGTCTGACCTTCTCTGCGA  
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 CGGCGCAGCTCCTGGACACACCTGCACATTGGACCCGGCCCAACCGCCCTCCCGCTGTGCCCCACC  
 ACGCCTGGCCAGGCTGGCCCCAGGTTGTGAGCCCTGGGGTGTGCAGGGGACTGTGAGATGGAGGAC  
 CTGATGCCCTGCTCCCTAGGCACGTTTGTCTGGTGCAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG206169 representing NM\_173354  
Red=Cloning site Green=Tags(s)

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MVMSEFSADPAGQGQGGQKPLRVGFYDIERTLGKGNFAVVKLARHRVTKTQVAIKIIDKTRLDSSNLEK
IYREVQLMKLLNHPHIKLYQVMETKMDLYIVTEFAKNGEMFDYLTSNHGLSENEARKKFWQILSAVEYC
HDHHIVHRDLKTENLLLDGNMDIKLADFGFNFYKSGEPLSTWCGSPPYAAPEVFEGKEYEGPQLDIWSL
GVVLYVLVCGSLPFDGPNLPTLRQRVLEGRFRIPFFMSQDCESLIRRMLVVDPAARRITIAQIRQHRWMRA
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AQCARPGPARQPRRSDLSGLEVPQEGLSTDPFRPALLCPQPQLVQSVLQAEMDCELQSSLQWPLFFP
VDASCSGVFRPRPVSPSSLLDTAISEEARQGPGLLEEEDTQESLPSSTGRRHTLAEVSTRLSPLTAPCIV
VSPSTTASPAEGTSSDSCLTFSASKSPAGLSGTPATQGLL GACSPVRLASPF LGSQSATPVLQAQGLGG
AVLLPVSFQEGRRASDTSLTQGLKAFRQQLRKTTRTKGFLGLNKIKGLARQVCQVPASRASRGG LSPFHA
PAQSPGLHGGAAGSREGWSLLEEVLQQLLQLQHHPAAAPGCSQAPQAPAPFVIAPCDGPGAAPLPST
LLTSGPLLLPPLLQTGASPVASAAQLLDTHLHIGTGPTALPAVPPPRLARLAPGCEPLGLLQGDCEMED
LMPCSLGTFVLVQ
    
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_173354

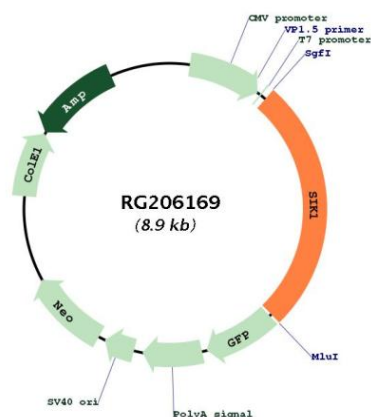
**ORF Size:** 2349 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_173354.2</a> , <a href="#">NP_775490.1</a>
<b>RefSeq Size:</b>	4723 bp
<b>RefSeq ORF:</b>	2352 bp
<b>Locus ID:</b>	150094
<b>UniProt ID:</b>	<a href="#">P57059</a>
<b>Cytogenetics:</b>	21q22.3
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Gene Summary:</b>	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]

## Product images:



Circular map for RG206169