

## Product datasheet for **SC337973**

### SIK3 (NM\_001281749) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SIK3 (NM_001281749) Human Untagged Clone
Tag:	Tag Free
Symbol:	SIK3
Synonyms:	L19; QSK; SEMDK; SIK-3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001281749, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGCGGCGGCGGCGGAGCGGAGCTGGCGGGCTGCCGGGGCCGGGACTGGGGGAGCCGGGCCCGCGG
GCCGCCTGCTGCCTCCGCCCGCGCGGGGTCCCCAGCCGCCCCCGCTGCCGTGTCCCTGCGCCGGCCA
GCCCGTCCCCAGCCCCGGCCTCCCGGGACCCATGCCCGCCGTATCGGCTACTACGAGATCGACCGC
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TCAAGATCATAGATAAGACCCAGCTGGATGAAGAAAATGAAGAAGATTTCCGGGAAGTTCAAATAT
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ACAGTGGGTGGCTGACCCACGCACGGAAGTTATGGAAGATCTGCAGAAGCTCTACCTGGCTTTCCTG
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CTGTTGAATGGAATGGGCCCCCTGGCCGGAGGGCATCAGATGGAGGAGCCAACATCCAAGTGCATGCC
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CCCTGTGGACGAGGAGAGCTCAGACGGGGAGCCAGACCAGGAAGCTGTGCAGAGGTA  
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GGCACAAAGATGTGTCTCACAGGCTTCTCACCCACCCCGCCCCACGGGTATG  
CTCACCAGCCGGCACTGATGCATTAGAGAGCATGGAGGAGGACTGCTCGTGTG  
AGGGGGCAAGGATGGCTTCCAAGACAGTACATTGACCAAAGTTGCCATGACAG  
CCCTGCTCTTGTGAGTCCCGGCTGTTGAGTCAATGAGTCAATGCCCCAAGAAT  
TGGGGATACATCCCTATGGTCATCAAGCAACTGCTGCATTAGTAAAAATAAG  
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CTTCGCTCATGGGCAGCCAGCAGTTTCAGGATGGGGAAAATGAGGAATGTGG  
GGCAAACCTGGGAGTGCATGAGCACCCAGACCTGAGTGTGGCAGCCAGCATTT  
AACTCCTCTTGCTATCCATCTACGTGTATTACAGACATTCTGCTCAGCTACA  
AGCACCCGAAGTCTCCTCAGCATGGAGCAGGCAGGCTGTAA
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**Restriction Sites:**

SgfI-MluI

**ACCN:**

NM\_001281749

**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).

**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).

<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>	<u>NM_001281749.1, NP_001268678.1</u>
<b>RefSeq Size:</b>	6039 bp
<b>RefSeq ORF:</b>	3786 bp
<b>Locus ID:</b>	23387
<b>UniProt ID:</b>	<u>Q9Y2K2</u>
<b>Cytogenetics:</b>	11q23.3
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Gene Summary:</b>	<p>Positive regulator of mTOR signaling that functions by triggering the degradation of DEPTOR, an mTOR inhibitor. Involved in the dynamic regulation of mTOR signaling in chondrocyte differentiation during skeletogenesis (PubMed:30232230). Negatively regulates cAMP signaling pathway possibly by acting on CRTC2/TORC2 and CRTC3/TORC3 (Probable). Prevents HDAC4 translocation to the nucleus (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) has multiple differences in the coding region but maintains the reading frame, compared to variant 1. This results in a shorter isoform (3) compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>