

Product datasheet for **SC337863**

SIK3 (NM_001281748) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SIK3 (NM_001281748) 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_001281748, the custom clone sequence may differ by one or more nucleotides

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ATGGCAGAAAAGGAGGCACGTCGGAAGTCAAACAGATCGTCACAGCTGTCTATTTTTGTCACTGTCGGA
ACATTGTTTCATCGTGATTTAAAAGCTGAAAATTTACTTCTGGATGCCAATCTGAATATCAAAATAGCAGA
TTTTGGTTTTCAGTAACCTCTTCACTCCTGGGCAGCTGCTGAAGACCTGGTGTGGCAGCCCTCCCTATGCT
GCACCTGAACTCTTTGAAGGAAAAGAATATGATGGGCCAAAGTGGACATCTGGAGCCTTGGAGTTGTCC
TCTACGTGCTTGTGTGCGGTGCCCTGCCATTTGATGGAAGCACACTGCAGAATCTGCGGGCCCGCGTGT
GAGTGGAAAGTCCGCATCCCATTTTTATGTCCACAGAATGTGAGCATTGATCCGCCATATGTTGGTG
TTAGATCCAATAAGCGCCTCTCCATGGAGCAGATCTGCAAGCACAAGTGGATGAAGCTAGGGGACGCCG
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GATGCCTATGATCACTATAGTGCAATCTACAGCCTGCTGTGTGATCGACATAAGAGACATAAAACCTGC
GTCTCGGAGCACTTCTAGCATGCCCGAGCCCTGGCCTTTAAGCACCAGTCAATATCCAGGCGGAGCA
GGCAGGTACTGCTATGAACATCAGCGTTCCCGAGTGCAGCTGATCAACCCAGAGAACCAAAATTGTGGAG
CCGGATGGGACTGAATTTGGACAGTGTGAGGTGAAGAGCCTTCCCTGAAGCATTGGTGGCCTATT
TGTCATGAGGAGGCACACAGTGGGTGTGGCTGACCCACGCACGGAAGTTATGGAAGATCTGCAGAAGCT
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CACAACTGTTGCTATGCAAAACTTGCAACCAACCGGGCAACTTGAGTACAAGGAGCAGTCTCTCCTAC
AGCCGCCACGCTACAGCTGTTGAATGGAATGGGCCCTTTGGCCGAGGGCATCAGATGGAGGAGCCAA
CATCCAATGCATGCCAGCAGCTGCTGAAGCGCCACGGGACCTCTCCGCTTGTACCATGACACCA
GCAGTGCCAGCAGTTACCCCTGTGGACGAGGAGAGCTCAGACGGGAGCCAGACCAGGAAGCTGTGCAGA
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AGATGGGGCTGCGAGCATCCAGGCTTCAAAGCTCACCTGGAAAAATGGGCAACAACAGCAGCATCAA
CAGCTGCAGCAGGAGTGTGAGCAGCTGCAGAAGATGTACGGGGGCGAGATTGATGAAAGAACCCTGGAGA
AGACCCAGCAGCAGCATATGTTATACCAGCAGGAGCAGCACCATCAAATCTCCAGCAACAAATTAAGA

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CTCTATCTGTCCTCCTCAGCCATCTCCACCTCTTCAGGCTGCATGTGAAAATCAGCCAGCCCTCCTTACC
 CATCAGCTCCAGAGGTTAAGGATTACAGCCTTCAAGCCCACCCCAACCACCCCAACAACCATCTTTCA
 GGCAGCCAGTAATAGTCTCCCCCATGAGCAGTGCCATGATCCAGCCTCACGGGGTGCATCTTCTTC
 CCAGTTTCAAGGCTTACCTTCCCGCAGTGCAATCTTTCAGCAGCAACCTGAGAACTGTTCTCTCTCCC
 AACGTGGCACTAACCTGCTTGGGTATGCAGCAGCTGCTCAGTCACAGCAGGTCACCATCCAAGTCCAAG
 AGCCTGTTGACATGCTCAGCAACATGCCAGGCACAGCTGCAGGCTCCAGTGGGCGCGGCATCTCCATCAG
 CCCCAGTGGTGCAGATGCAGATGCAGCACCGTACCAACCTGATGGCCACCCTCAGCTATGGGCACCGT
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 CCACATCCTTCAAGGACTGCTTTCTCCCCGGCATTGCTCACCGGCCACTCGGACATCCGGCTGCCCCA
 ACAGAGTTTGACAGCTCATTAAAAGGCAGCAGCAACAACGGCAGCAGCAGCAACAGCAGCAACAGC
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 CAGCATCTGCTACAAATCAGGGCACAAGAATGTGTCTCACAGGCTTCTCACCCACCCCGCCCCACGGGT
 ATGCTCACAGCCGGCACTGATGCATTCAGAGAGCATGGAGGAGGACTGCTCGTGTGAGGGGGCCAAGGA
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 ACCGGTGGACCTGGGGACCCTGAATCTTTGCTAGGAAGTGTGAGTCATGCCCAAGAATTGGGGATACATC
 CCTATGGTCATCAGCCAACTGCTGCATTAGTAAAAATAAGGTGCCAGCAGAGAGCCTGTTCATAGGGAA
 CTGCATGGATAGAAGTTCTCCAGGACAAGCAGTGGAGTGGCGGATCACAATGGGCTCGGGTACCCAGCA
 CGCCCCCTCGTCCATGAGCACCAGGCCCGGGCCCTCCAGAGACACCACAGTCCAGAACAGCGACG
 ATGCTTATGTACAGCTGGATAACTTGCCAGGAATGAGTCTCGTGGCTGGGAAAGCACTTAGCTCTGCCCC
 GATGTCCGATGCAGTTCTCAGTCAGTCTTCGCTCATGGCAGCCAGCAGTTTCAGGATGGGAAAAATGAG
 GAATGTGGGGCAAGCCTGGGAGGTCATGAGCACCCAGACCTGAGTGATGGCAGCCAGCATTAAACTCCT
 CTGCTATCCATCTACGTGATTACAGACATTCTGCTCAGCTACAAGCACCCCGAAGTCTCCTTCAGCAT
 GGAGCAGGCAGGCGTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_001281748
- 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).
- 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_001281748.1](#), [NP_001268677.1](#)
- RefSeq Size:** 6163 bp
- RefSeq ORF:** 3309 bp
- Locus ID:** 23387

Cytogenetics: 11q23.3

Protein Families: Druggable Genome, Protein Kinase

Gene Summary: 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]
Transcript Variant: This variant (2) uses an alternate exon in the 5' UTR and uses a downstream start codon compared to variant 1. It encodes isoform 2 which has a shorter N-terminus 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.