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Product datasheet for MC224338

Sik3 (NM_027498) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sik3 (NM_027498) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sik3
Synonyms:	5730525O22Rik; 9030204A07Rik; AI447252; AI846254; AI849445; mKIAA0999; Qsk; SIK-3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>MC224338 representing NM_027498
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGCGGCGGCGGCGAGCGGAGCTGGCGGGGTTGCCGTGGCCGGAGCAGGGGGAGCCGGGCCGGCCG
GCCGCCTGCTGCCTCCGCCCGCCGCGGGGCCCCCGGCAGCCCCCGCCGCAGTGCCCCCGGCCGCCGTCCC
GGCGCGTCCCACAGCCCCGGCCTCCCGCGGGTCGATGGCCGCTCGCATCGGCTACTACGAGATCGACCGC
ACCATCGGCAAGGGCAACTTCGCTGTGGTCAAGCGGGCCACGCACCTCGTCACCAAGGCCAAGGTTGCTA
TTAAAATCATAGATAAGAGCCAGCTGGATGAAGAAAACTTGAAGAAGATTTTCCGGGAGGTTCAGATAAT
GAAGATGCTTTGCCATCCACACATCATCAGACTCTACCAGGTCATGGAGACAGAGCGCATGATTTACCTG
GTGACAGAATACGCTAGCGGAGGGGAGATATTTGACCACTTGGTAGCCCATGGAAGAATGGCAGAGAAGG
AAGCTCGACGGAAGTTCAAACAGATCGTCACAGCGGTGTATTTTTGTCACTGTCGGAATATCGTTCATCG
TGATTTAAAAGCCGAAAACTTACTTCTGGACGCCAATCTGAATATCAAAATAGCAGACTTTGGCTTCAGC
AACCTCTTCACTCCAGGGCAGCTGCTGAAGACGTGGTGTGGCAGCCCTCCCTATGCCGCCCCAGAGCTCT
TCGAAGGGAAGGAATATGATGGGCCCAAAGTGGACATATGGAGCCTTGGAGTTGTCCTCTATGTGCTGGT
GTGTGGCGCCCTGCCGTTTGATGGGAGCACACTGCAGAATCTGCGGGCCCGCGTGCTGAGTGGCAAGTTC
CGCATCCCGTTCTTTATGTCCACAGAGTGTGAGCACTTGATCCGCCACATGCTGGTGTTAGATCCAAATA
AGCGCCTCTCAATGGAACAGATCTGCAGGCACAAGTGGATGAAGCTCGGAGATGCAGACCCCAACTTTGA
CAGGTTAATAGCGGAGTGCCAGCAACTGAAGGAGGAAAGGCAGTCGGACCCCCTCAACGATGATGTCCTC
TTGGCTATGGAAGACATGGGGCTGGACAAGGAGCGCACACTTCAGTCATTAAGGTCAGATGCCTATGACC
ACTATAGTGCAATCTACAGCCTGCTGTGCGATCGACACAAGAAACATAAAACTCTGCGTCCCGGAGCACT
TCCCAGCATGCCCCAAGCCATGACTTTCCAGGCACCAGTCAATCTCCAGGCGGAGCAGACAGGCACTGCT
ATGAACCTTAGCGTCCCTCAAGTTCAGCTGATCAACCCAGAGAACCAAATTATAGAGCCTGACGGGGCTG
TGAACTTGGACAGTGATGAGGGTGAAGAGCCTTCTCCAGAAGCCTTGGTTCGCTATTTGTCAATGAGGAG
GCACACGGTGGGAGTGGCTGACCCACGCACGGAAGTTATGGAAGATCTGCAGAAGCTGCTGCCTGGCTTT

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CCTGGAGTAAACCCACAGGGTCCATTCCTACAAGTGGCCCCTAACATGAACTTCACGCACAACCTGTTGC
CCATGCAGAGTCTGCAGCCAACTGGGCAGCTTGAGTACAAGGAACAGTCTCTGTTACAGCCGCCTACACT
ACAGCTACTGAACGGAATGGGGCCCCTTGGCCGGAGAGCCTCAGATGGAGGCGCCAACATCCAACTGCAT
GCCCAGCAGCTGCTCAAGCGCCCACGGGGACCGTCCCCACTTGTCACCATGACACCAGCAGTGCCAGCAG
TTACCCCTGTGGATGAGGAGAGCTCGGATGGGGAGCCAGATCAGGAAGCTGTGCAGAGGTACTTGGCAAA
TAGGTCCAAAAGGCACACACTGGCCATGACCAGCCCGACAGCTGAGATCCCACCGGACCTGCAACGGCAG
CTAGGACAACAGTCTTTCCGTTCCCGGGTCTGGCCTCCTCACCTGGTACCTGACCAGCATCGCTCCACCT
ACAAGGACTCCAACACCCTGCATCTCCCTACGGAGCGTTTCTCCCCCGTGCGCCGGTTCTCAGACGGGGC
TGCAAGCATCCAGGCCTTCAAAGCTCACCTGGAAAAAATGGGCAACAGCAGCAGCATCAAGCAGTTGCAG
CAGGAGTGTGAGCAGCTGCAGAAGATGTACGGGGGGCAGGTGGATGAGAGGACCCTGGAGAAGACCCAGC
AGCAGCATATGTTGTACCAGCAGGAGCAGCACCATCAGATCCTCCAGCAGCAAATCCAAGATTCTATTTG
TCCTCCTCAGCCCTCCCCACCTCTTCAGGTTGCCTGTGAAAACCAACCAGCCCTCCTCACCCACCAGCTC
CAGAGGTTAAGGATTCAACCTTCAAGCCCACCCCCCAACCATCCCAGCAACCATCTCTTCAGACAGCCAA
GTAACAGTCCTCCCCCGGTCAGCAGTGCCATGATCACGTCTCACGGTGCTACGTCTCCCTCCCAGTTTCA
AGGCTTACCCTCCCATGGTGCAATCTTCCAGCAGCAACCCGAGAACTGTTCCCCGCCTCCCAGTGTAGCA
CTAACCTGCCTGGGCCTACAGCAGGCTAGCCAGTCACAGCCAGTGACTATCCAGCTACAGGAGCCAGTTG
ACATGCTCAGCAACATGGCCGGAACCGCGGCAGGCTCTGCAGGGCGGAGCATCCCCATCAGCCCCAGCGC
CAGTCAGATTCAGATACAGCACCGAGCCAGCCTAATGGCTCCCTTCAGCTATGGGCACCGGCCCTTGTCC
AAGCAGCTGAGCGCTGACAGTGCAGAGGCCCACAGCTTGAACATGAATCGGTTCTCCCCTGCCAACTACG
ACCAGGCGCATTTACACCCCCATCTGTTTTCGGACCAGTCCCGAGGTTCCCCCAGCAGCTACAGCCCTTC
AACAGGAGTGGGGTTTCCTCCAACTCAAGCCCTGAAAGTTCCTCCGCTTGACCAGTTCCCCACTTTCCCT
CCCAGTGCCCAGCAGCAGCCACCCCACTATACCACGTCAGCACTACAGCAGGCCCTGCTATCTCCTACAC
CGCCAGACTATCCCCGACACCAGCAGGTTCCCCATATCCTTCAAGGACTGCTCTCTCCCCGGCATTCACT
CACCGGCCACTCGGACATTCGGCTGCCTCCGGCAGAGTTTGCACAGCTCATCAAAAGGCAGCAACAGCAT
CGACAGCAGCAGCAGCAGCAGCAGCAGCAACAAGAATACCATGAATTGTTCAGGCACATGAACCAAGGGG
ATGCTGTTAGCCTAGCTCCCAGCCTCGGGGGACAGAATATGACAGAGCAACAGGCTTTATCTTATCAAAA
TGCTGACTCGTACCACCGCCACCACACCAGCCCCCAGCATATCTTACAGATCAGGGCGCAAGATTGTATC
TCACAGGGTCCCTCGCCCACCCCCACCCATGGCTATGCCCATCAGCCACCACTAATGCATTCGGAGAGTA
TGGAGGAAGACTGCTTGTGTGAGGGGCTCAAGGAGGGCTTCCCAGACAAGAGCTCAAGCACACTGACCAA
AGGTTGCCACAACAGCCCTCTGCTCTTGTGTACCAGTGGGCCTGGGGACCCTGAGCCTTTGCTGGGAACT
GTGAGTCAGGCCCGGGAGCTGGGGATCCATCCCTACGGACACCAGCCAACTGCCACCACGTTCAGTAGAA
ATAAGGTGCCCAGCCGAGAGTCTGTCCTAGGGAACTGCCTGGAAAGAAGTTCTCCTGGACAAGCAATGGA
GCTGCCGGATCACAACGGCCTTGGGTACCCAGTACGGCCCTTAGTCAGTGAGCACCTCAGGTCCCGGACG
CTCCAGAGACACCACACGATCCAGAACAGCGACGATGCCTATGTACAGCTGGATACCTTGCCAGGAATGA
GCCTGGTGGCAGGCAAGGCGCTGAGCTCTGCCCGGATGTCAGATGCAGTTCTTAGTCAGTCTTCACTCAT
GGGCAGCCAACAGTTTCAGGATGAGGAAGATGAAGAATGTGGGGTGAGCCTGGGCCACGAGCATCCAGGC
CTGGGTGATGGCAGCCAGCATCTCAACTCCTCTCGCTATCCAGCTACGTGTGTTACAGACATCATGCTCA
GCCACAAGCACCCAGAGGTCTCCTTCAGCATGGAGCAAGCCGGCGTGTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_027498

Insert Size: 4110 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).

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_027498.3, NP_081774.3
RefSeq Size:	6296 bp
RefSeq ORF:	4110 bp
Locus ID:	70661
UniProt ID:	Q6P4S6
Cytogenetics:	9 A5.2
Gene Summary:	Positive regulator of mTOR signaling that functions by triggering the degradation of DEPTOR, an mTOR inhibitor (By similarity). Required for chondrocyte hypertrophy during skeletogenesis (PubMed:22318228). Negatively regulates cAMP signaling pathway possibly by acting on CRTC2/TORC2 and CRTC3/TORC3 (By similarity). Prevents HDAC4 translocation to the nucleus (PubMed:22318228).[UniProtKB/Swiss-Prot Function]