

Product datasheet for MR211912

Sik3 (NM_027498) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sik3 (NM_027498) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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)
ORF Nucleotide Sequence:	>MR211912 representing NM_027498 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGCC**

ATGGCGCGCGCGCGCGGAGCTGGCGGGTTGCCGTGGCCGGAGCAGGGGAGCCGGGCCGCGCCG
GCCGCTGCTGCCTCCGCCCGCGCGGGCCCCCGGCAGCCCCCGCCGAGTCCCCCGCGCCGCTCC
GGCGCTCCACAGCCCCGGCTCCCGGGTTCGATGGCCGCTCGCATCGGCTACTACGAGATCGACCGC
ACCATCGCAAGGGCAACTTCGCTGTGGTCAAGCGGGCCACGCACCTCGTACCAAGGCCAAGTTGCTA
TAAAATCATAGATAAGAGCCAGCTGGATGAAGAAAACCTGAAGAAGATTTCCGGGAGGTTGAGATAAT
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GTGACAGAATACGCTAGCGGAGGGGAGATTTGACCACTTGGTAGCCATGGAAGAATGGCAGAGAAGG
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CCTGGAGTAAACCCACAGGGTCCATTCCCTACAAGTGGCCCTAACATGAACTTCACGCACAACCTGTTGC
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Protein Sequence: >MR211912 representing NM_027498
 Red=Cloning site Green=Tags(s)

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NLFTPGQLLKTWCGSPPYAAPELFEKGEYDGPVKVDIWSLGVVLVYLVCGALPFDGSTLQNLRARVLSGKF
RIPPFMSTECEHLIRHMLVLDPNKRLSMEQICRHKWMKLGADPNFDRLIAECQQLKEERQSDPLNDDVL
LAMEDMGLDKERTLQSLRSDAYDHYSAIYSLLCDRHKKHKTLRPGALPSMPQAMTFQAPVNLQAEQTGTA
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LQRHHTIQNSDDAYVQLDTLPGMSLVAGKALSSARMSDAVLSQSSLMGSQQFQDEEDEECGVSLGHEHPG
LGDGSQHLNSSRYPATCVTDIMLSHKHPEVSFSMEQAGV
  
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9008_h08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



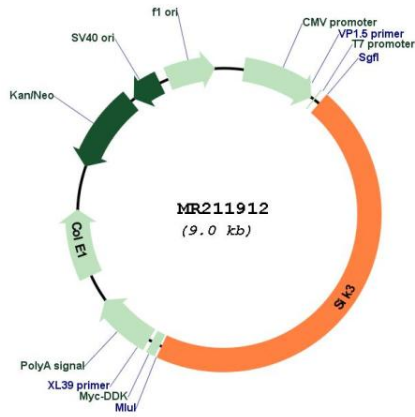
* The last codon before the Stop codon of the ORF

ACCN: NM_027498

ORF Size: 4107 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.
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_027498.3 , NP_081774.3
RefSeq Size:	6296 bp
RefSeq ORF:	4110 bp
Locus ID:	70661
UniProt ID:	Q6P4S6
Cytogenetics:	9 A5.2
MW:	151.1 kDa
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 CRT2/TORC2 and CRT3/TORC3 (By similarity). Prevents HDAC4 translocation to the nucleus (PubMed:22318228).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR211912