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Product datasheet for MC222719

Sik2 (NM_178710) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sik2 (NM_178710) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sik2
Synonyms:	G630080D20Rik; Snf1lk2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>MC222719 representing NM_178710
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTCATGGCGGATGGCCCGAGGCACTTGCAGCGCGGGCCAGTCCGGGTGGGGTTCTACGACATCGAGG
GCACGCTGGGCAAGGGCAACTTTGCCGTGGTGAAGCTGGGGCGGCACCGGATCACCAAGACGGAGGTGGC
TATAAAAATAATAGACAAGTCACAGCTGGATGCAGTAAACCTTGAGAAAATCTACCGAGAAGTACAGATA
ATGAAAATGCTCGACCATCCTCACATCATTAAACTGTATCAGGTAATGGAGACCAAAAGTATGTTGTACC
TTGTGACAGAATATGCCAAAAATGGAGAAATTTTTGATTATCTTGCTAATCATGGCCGATTAAATGAATC
TGAAGCCAGGAGAAAATTCTGGCAAATTCTGTCTGCTGTTGATTATTGCCATGGCCGGAAGGTAGTGCAC
AGAGACCTGAAGGCTGAAAATCTCCTGCTGGATAACAACATGAATATCAAAATAGCAGATTTCGGCTTTG
GAAATTTCTTTAAAACTGGTGAACTGCTGGCAACATGGTGTGGCAGCCCCCCTTATGCAGCCCCAGAAGT
CTTTGAAGGGCAGCAGTATGAAGGACCACAGCTGGATATATGGAGCATGGGAGTTGTTCTTTATGTCCTT
GTCTGTGGAGCTCTACCTTTTGATGGACCAACTCTCCCTATTTTGAGGCAGAGGGTTTTAGAAGGAAGAT
TCCGGATTCCTTATTTCATGTCAGAAGATTGTGAACACCTCATTAGAAGGATGTTGGTCCTAGATCCTTC
CAAACGGCTAAGCATAGCTCAAATCAAGGAGCACAAGTGGATGCTCATAGAGGTTCCTGTACAGAGGCCT
ATTCTCTACCCACAAGAACAGGAAAACGAGCCGTCCATTGGAGAATTTAATGAGCAGGTTCTTCGACTGA
TGCACAGCCTTGGGATTGATCAGCAGAAGACTGTTGAGTCTTTGCAAAACAAGAGCTATAATCACTTTGC
TGCCATTTATTTCTTGTTGGTGGAACGTCTAAAATCACATAGGAGCAGTTTTCCTGTGGAGCAGAGACTT
GATGGCCGCCAGCGTCGGCCTAGCACCATTGCTGAACAAACAGTTGCCAAGGCACAAACTGTGGGGCTGC
CAGTGACCTTGCATCCACCGAACGTGAGACTGATGCGATCTACCCTCCTCCCACAGGCATCCAATGTGGA
GGCCTTTTCATTTCCAACATCCAGCTGTCAAGCAGAAGCTGCCTTTATGGAGGAAGAGTGTGTCGACACT
CCAAAGGTGAATGGCTGCCTGCTTGACCCTGTGCCCCCTGTCCTGGTGAGGAAGGGATGCCAGTCACTGC
CCAGCAGTATGATGGAGACCTCCATTGATGAAGGCTTGGAGACAGAAGGAGAGGCTGAGGAAGACCCCAG
TCAGGCCTTTGAAGCTTTCCAGGCCACACGCAGTGGGCAGCGACGGCACACTCTGTCAGAAGTGACTAAC
CAATTGGTTGTGATGCCCGGGGCAGGGAAAATGTTCTCCATGAGTGATAACCCCTCCCTTGAGAGTGTGG
ACTCTGAGTATGATATGGGGTCTGCCCAGAGGGACCTGAACTTTCTGGAAGACAGCCCTTCCTTGAAGGA
CATCATGTTAGCCAATCAGCCGTCACCCCGCATGACATCTCCTTTCATAAGCCTCAGACCTGCCAACCCA
GCCATGCAGGCTCTGAGCTCACAGAAGCGTGAGGCCCACAACCGGTCCCCCGTGAGCTTCCGAGAAGGCC
GCAGAGCATCAGATACGTCCCTTACACAAGGAATTGTAGCATTTAGACAACATCTTCAGAATCTTGCTAG
AACCAAAGGAATTCTGGAGTTGAACAAAGTACAATTGCTGTATGAACAAATGGGATCAAACGCAGACCCT
ACCTTAACATCAACTGCTCCTCAGCTCCAAGACCTTTCGAGCAGTTGCCCTCAGGAGGAAATCTCCCAGC
AGCAGGAAAGTGTCTCCAGCCTGTCTGCCAGCATGCACCCTCAGCTCTCACCACAGCAAAGCTTGGAAAC
CCAGTACCTACAGCATCGACTCCAGAAGCCCAATCTTCTGCCAAAGGCCCAGAGTCCTTGTCCAGTGTAT
TGTAAAGAGCCACCTCGGAGCCTGGAACAGCAGCTACAGGAGCATAGGCTCCAACAGAAGCGACTCTTCC
TCCAGAAGCAGTCTCAGCTGCAAGCATATTTTAATCAGATGCAGATAGCAGAGAGCTCCTACCCTGGACC
AAGTCAGCAGCTGGCTCTTCCCCACCAGGAGACTCCACTGACATCCCAGCAGCCCCCATCATTCAGCCTG
ACCCAGGCCCTGAGTCCTGTCCTCGAGCCCTCTTCTGAGCAGATGCAATTTAGCTCTTTCCTCAGCCAAT
ACCCAGAGATGCAGTTGCAGCCACTGCCCTCTACTCCCGGCCCCCAGGCTCCACCTCCCTTACCCTCACA
ATTGCAGCAACATCAGCAGCCACCACCCCCACCACCACCCCCTCCACCACAGCAGCCAGGAGCTGCTCCA
ACCTCCTTACAGTTCTCCTATCAGACTTGTGAGCTGCCAAGCACCACTTCTTCTGTACCAAACTATCCTG
CTTCCTGTCACTATCCTGTGGATGGAGCCCAGCAGAGCAACCTCACAGGGGCGGACTGTCCCAGGAGCTC
AGGACTTCAGGACACCGCATCTAGCTATGACCCACTGGCCCTCTCTGAGCTCCCTGGACTCTTTGATTGT
GAAATGGTAGAAGCTGTGGATCCACAACACAATGGGGTTGTGAGCTGCTTAGCCCGGGAGACCTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

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ACCN:	NM_178710
Insert Size:	2796 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_178710.3, NP_848825.2
RefSeq Size:	3561 bp
RefSeq ORF:	2796 bp
Locus ID:	235344
UniProt ID:	Q8CFH6
Cytogenetics:	9 A5.3
Gene Summary:	Phosphorylates 'Ser-789' of IRS1 in insulin-stimulated adipocytes, potentially modulating the efficiency of insulin signal transduction. Inhibits CREB activity by phosphorylating and inhibiting activity of TORCs, the CREB-specific coactivators, like CRTC2/TORC2 and CRTC3/TORC3 in response to cAMP signaling (PubMed:29211348).[UniProtKB/Swiss-Prot Function]

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