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Product datasheet for MC223067

Sin3a (BC052716) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sin3a (BC052716) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sin3a
Synonyms:	AW553200; mKIAA4126; mSin3A; Sin3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC052716 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGAAGCGACGTTTGGATGACCAGGAATCACCAGTGTATGCAGCCCAGCAGCGAAGGATTCCTGGGAGCA CAGAGGCTTTTTCTCACCAGCACCGGGTCCTTGCCCCGGCCCCTCCTGTGTATGAAGCAGTGTCTGAGAC CATGCAGTCAGCTACAGGCATTCAGTACTCAGTGGCACCCAACTACCAGGTTTCAGCTGTGCCACAAAGT TCTGGCAGTCATGGGCCCGCCATAGCAGCAGTTCATAGCAGCCATCATCACCCAACAGCTGTCCAGCCTC ATGGAGGCCAGGTGGTCCAGAGCCATGCCCACCCAGCACCACCAGTTGCACCAGTACAGGGACAGCAGCA GTTTCAGAGGCTCAAGGTGGAAGACGCCCTGTCCTATCTTGACCAGGTGAAACTGCAGTTCGGTAGTCAG CCTCAGGTCTACAATGATTTCCTTGACATCATGAAGGAATTTAAATCTCAGAGCATTGATACTCCAGGAG TGATTAGCCGAGTGTCCCAGCTATTTAAAGGCCACCCTGATCTGATCATGGGCTTTAACACCTTCTTGCC TCCTGGCTACAAAATTGAGGTGCAGACTAATGACATGGTGAACGTGACAACACCTGGCCAAGTTCATCAG ATTCCCACCCATGGCATCCAGCCCCAGCCTCAGCCACCACCTCAGCATCCTTCCCAGCCTTCATCCCAGT CAGCTCCCACTCCTGCTCAGCCAGCTCCTCAGCCCACAGCTGCCAAAGTCAGCAAGCCTTCCCAACTACA AGCACATACTCCAGCCAGTCAGCAGACTCCCCCACTCCCACCATATGCATCCCCACGTTCTCCACCAGTC CAGCCTCACACACCAGTGACAATCTCCTTGGGGACAGCTCCATCTTTGCAAAACAATCAGCCTGTGGAGT TTAATCATGCCATCAACTATGTTAATAAGATCAAGAACAGATTCCAGGGCCAACCAGACATCTACAAAGC ATTCTTGGAGATTTTGCACACATACCAGAAAGAACAGCGGAATGCCAAGGAAGCTGGAGGAAACTACACT CCAGCTTTGACTGAGCAAGAGGTGTATGCCCAGGTGGCTCGACTCTTCAAAAACCAGGAAGATTTGTTGT CTGAATTTGGACAGTTCCTGCCAGATGCCAACAGCTCAGTGCTTTTAAGCAAAACAACTGCTGAGAAGGT TGATTCTGTGAGAAATGACCATGGAGGCACTGTGAAGAAGCCCCAACTGAATAACAAGCCACAGAGGCCC AGTCAGAATGGCTGCCAGATCCGCAGGCACTCTGGAACAGGAGCCACACCTCCAGTGAAGAAAAAACCCA AACTGATGAGTCTAAAAGAGTCTTCAATGGCAGATGCCAGCAAGCATGGTGTTGGAACGGAATCATTATT TTTTGATAAGGTTCGAAAGGCTCTTCGGAGTGCAGAGGCCTATGAAAACTTCCTTCGTTGCCTTGTTATC

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ACCCTGCACCACCACCTGTGATACAGAGACTCTGCACTTTGTGAGCATTAACAAATATCGTGTCAAATAC
GGCACAGTATTCAAAGCCCCTTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: BC052716

Insert Size: 3594 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:	BC052716, AAH52716
RefSeq Size:	4820 bp
RefSeq ORF:	3593 bp
Locus ID:	20466
Cytogenetics:	9 30.89 cM
Gene Summary:	Acts as a transcriptional repressor. Corepressor for REST. Interacts with MXI1 to repress MYC responsive genes and antagonize MYC oncogenic activities. Also interacts with MXD1-MAX heterodimers to repress transcription by tethering SIN3A to DNA. Acts cooperatively with OGT to repress transcription in parallel with histone deacetylation. Involved in the control of the circadian rhythms. Required for the transcriptional repression of circadian target genes, such as PER1, mediated by the large PER complex through histone deacetylation. Cooperates with FOXK1 to regulate cell cycle progression probably by repressing cell cycle inhibitor genes expression (PubMed:22476904). Required for cortical neuron differentiation and callosal axon elongation (PubMed:27399968).[UniProtKB/Swiss-Prot Function]