

Product datasheet for **SC112939**

SINHCAF (NM_021238) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SINHCAF (NM_021238) Human Untagged Clone
Tag:	Tag Free
Symbol:	SINHCAF
Synonyms:	C12orf14; FAM60A; L4; TERA
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC112939 sequence for NM_021238 edited (data generated by NextGen Sequencing) ATGTTTGGTTTTCAAGCCAAAGATGTACCGAAGTATAGAGGGCTGCTGTATTTGCAGA GCTAAGTCTCCAGTTCTCGATTCACTGACAGTAAACGCTATGAAAAGGACTTCCAGAGC TGTTTTGGATTGCATGAGACTCGTTCAGGAGACATCTGCAATGCCTGTGCTCCTGCTTGTG AAAAGATGGAAGAAGTTGCCAGCAGGATCAAAAAAAAAACTGGAATCATGTGGTAGATGCA AGGGCTGGACCCAGTCTAAAGACTACATTGAAACCAAAGAAAGTAAAACTCTATCTGGG AACAGGATAAAAAGCAACCAGATCAGTAACTGCAGAAGGAATTTAAACGTCATAATTCT GATGCTCACAGTACCACCTCAAGTGCCTCCCCAGCTCAATCTCCTTGTTACAGTAACCAG TCAGATGACGGCTCAGATACAGAGATGGCTTCTGGTTCTAACAGAACACCAGTTTTTTCC TTTTTAGATCTCACTTACTGAAAAGACAGAAGATATGTTGTGGGATCATCTATAAAGGC CGTTTTGGGAAGTCCTCATTGACACACATCTCTCAAGCCTTGCTGCAGCAATAAGAAA GCAGCTGCTGAGAAGCCAGAGGAGCAGGGGCCAGAGCCTCTGCCATCTCCACTCAGGAG TGGTGA Clone variation with respect to NM_021238.2



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_021238 unedited
 TTTTGTAAACGACTTACTATAGGGCGGCCGCAATTCGCACGAGGCTCGTGCCGAAT
 TCGGCACGACGCAAGGCAGTTGAGGAGGAGGGAGCGCTTGAGGGGGACTGGCCTGGCGTG
 CACTCCGCACCTCGGGGACATTATTGCGCGTGGAACGGCTGCTTTTGAAGACTATTGCC
 CAGAAGAAAAGATGTTTGGTTTTCAAGCCAAAGATGTACCGAAGTATAGAGGGCTGCT
 GTATTTGCAGAGCTAAGTCCCTCCAGTTCTCGATTCACTGACAGTAAACGCTATGAAAAGG
 ACTTCCAGAGCTGTTTTGGATTGCATGAGACTCGTTCAGGAGACATCTGCAATGCCTGTG
 TCCTGCTTGTGAAAAGATGGAAGAAGTTGCCAGCAGGATCAAAAAAAAAACTGGAATCATG
 TGGTAGATGCAAGGGCTGGACCCAGTCTAAAGACTACATTGAAACCAAAGAAAAGTAAAA
 CTCTATCTGGGAACAGGATAAAAAGCAACCAGATCAGTAAACTGCAGAAGGAATTTAAAC
 GTCATAATTCTGATGCTCACAGTACCACCTCAAGTGCCTCCCAGCTCAATCTCCTTGTT
 ACAGTAACCAGTCAGATGACGGCTCAGATACAGAGATGGCTTCTGGTTCTAACAGAACAC
 CAGTTNTTTCCTTTNTAGATCTCACTTACTGGAAAAGACAGAAAGATATGTTGTGGGATC
 ATCTATAAAGGCCGTTTTGGGGAAGTCTCATTGACACACATCTCTTCAAGCCTTGCTGC
 AGCAATAAGAAGCAGCTGCTGAGAAGCCAGAGGAGCAGGGGCCAGAGCCTCTGCCCATCT
 NCCCTCAGGAGTGGTACTGAGGTTTTTATGTANAAG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_021238 unedited
 CTTGTACGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTCTAGTAA
 GACTAGATTTATTCAATACCCTTAGTAAAAGTTTTGATTATAAGTATCCAACAGTATAAA
 AAGTACAAAACAGATCTGTAGATTTCTAATATATTAATACAAAGTGCATGACTACATACA
 GTACATCTACAGCAAAGAGAGGTGGAAGGGGAAAAAGAAGACTGTGGTTGAGGTCTAG
 TAATAAATAAATAAATACAGAAGTAGAGATGATCCATATTATAGTATATTCTACCACAA
 TACTGCAGGCAAAATGTACAAAAAAATCATTTCAAATAACTCAGGAGGATGATAATGGC
 TGGACTTTTGAATTCACCTCAAAGACTGTGGGAGAGCCAACTCAACTACTGTATAGTC
 TGTGCATATGGTGGCTTGAACATGTAGGTTCTTTCTAAAAGAAGGAAATATAAAATGTT
 TAGATTAAGAACTATAAAACTACAGGGCTGCCCTATAAAAGGTGGCTTACTCCTTATTGG
 CATTATACTATGCAATGTTTAAATGTCGCGCAAAAAATAAGGACTGACTCTTGCTATTA
 CAAGGTAGGCAATGTTGATCTTCTCATTTTAAAAGACTGAACTGGTAAATGCTTTCTCT
 GAACCTTTAGAAAACAGGCCCTCCCACTTCTCTGGCTTTGGTCCCACGTGACACGTCTT
 CCATGAAAATTTACGATTCAACACTTTTCACTTTACGATATTTAATGGCTAGAAGCT
 TGTCTATAAGAACCCTACCCACACCTTTTATGTGAACCCAGCTCCTTTTCTTACGGAGT
 CCCCCTCCATTTCTACGAAACAAATTGACCTGTATTGGCTAAACAGCCTAACCCGCTCCT
 ACACCATAAACCTTCACAAGGCTACTCGACCATTACACGCAACTCGATTGGTCTCTTCT
 ACGACACGCGCACTTTGTCCCTAACCATACG

Restriction Sites:

NotI-NotI

ACCN:

NM_021238

Insert Size:

3630 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_021238.1](#), [NP_067061.1](#)

RefSeq Size: 3097 bp

RefSeq ORF: 666 bp

Locus ID: 58516

UniProt ID: [Q9NP50](#)

Cytogenetics: 12p11.21

Gene Summary: Subunit of the Sin3 deacetylase complex (Sin3/HDAC), this subunit is important for the repression of genes encoding components of the TGF-beta signaling pathway (PubMed:22865885, PubMed:22984288). Core component of a SIN3A complex (composed of at least SINHCAF, SIN3A, HDAC1, SAP30, RBBP4, OGT and TET1) present in embryonic stem (ES) cells. Promotes the stability of SIN3A and its presence on chromatin and is essential for maintaining the potential of ES cells to proliferate rapidly, while ensuring a short G1-phase of the cell cycle, thereby preventing premature lineage priming (By similarity).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) uses a different splice site in the 5' UTR, compared to variant 1. Variants 1, 2, and 3 encode the same protein.