

Product datasheet for **SC324799**

SINHCAF (NM_001135811) Human Untagged Clone

Product data:

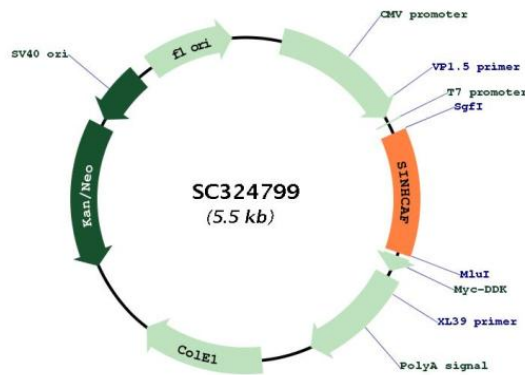
Product Type:	Expression Plasmids
Product Name:	SINHCAF (NM_001135811) Human Untagged Clone
Tag:	Tag Free
Symbol:	SINHCAF
Synonyms:	C12orf14; FAM60A; L4; TERA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC324799 representing NM_001135811. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTTTGGTTTTCAAGCCAAAGATGTACCGAAGTATAGAGGGCTGCTGTATTTGCAGAGCTAAGTCC
TCCAGTTCTCGATTCAGTACAGTAAACGCTATGAAAAGGACTTCCAGAGCTGTTTTGGATTGCATGAG
ACTCGTTCAGGAGACATCTGCAATGCCTGTGTCTGCTTGTGAAAAGATGGAAGAAGTTGCCAGCAGGA
TCAAAAAAAAACTGGAATCATGTGGTAGATGCAAGGGCTGGACCCAGTCTAAAGACTACATTGAAACCA
AAGAAAGTAAAACTCTATCTGGGAACAGGATAAAAAGCAACCAGATCAGTAAACTGCAGAAGGAATTT
AAACGTACATAATTCTGATGCTCACAGTACCACCTCAAGTGCCTCCCAGCTCAATCTCCTTGTACAGT
AACCAGTCAGATGACGGCTCAGATACAGAGATGGCTTCTGGTTCTAACAGAACCCAGTTTTTTCCTTT
TTAGATCTCACTTACTGAAAAGACAGAAGATATGTTGTGGGATCATCTATAAAGCCGTTTTGGGGAA
GTCCTCATTGACACACATCTCTCAAGCCTTGCTGCAGCAATAAGAAAAGCAGCTGCTGAGAAGCCAGAG
GAGCAGGGGCCAGAGCCTCTGCCATCTCCACTCAGGAGTGGTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:


ACCN: NM_001135811

Insert Size: 666 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001135811.1](#)

RefSeq Size: 3134 bp

RefSeq ORF: 666 bp

Locus ID: 58516

UniProt ID: [Q9NP50](#)

Cytogenetics: 12p11.21

MW: 24.9 kDa

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 (1) represents the longest transcript. Variants 1, 2, and 3 encode the same protein.