

Product datasheet for **RG227909**

SINHCAF (NM_001135811) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SINHCAF (NM_001135811) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SINHCAF
Synonyms:	C12orf14; FAM60A; L4; TERA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG227909 representing NM_001135811 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTTTGGTTTTACAAGCCAAAGATGTACCGAAGTATAGAGGGCTGCTGTATTTGCAGAGCTAAGTCCT
 CCAGTTCTCGATTCACTGACAGTAAACGCTATGAAAAGGACTTCCAGAGCTGTTTGGATTGCATGAGAC
 TCGTTCAGGAGACATCTGCAATGCCTGTGTCCTGCTTGTGAAAAGATGGAAGAAGTTGCCAGCAGGATCA
 AAAAAAACTGGAATCATGTGGTAGATGCAAGGGCTGGACCCAGTCTAAAGACTACATTGAAACCAAGA
 AAGTGAAAACCTATCTGGGAACAGGATAAAAAGCAACCAGATCAGTAACTGCAGAAGGAATTTAAACG
 TCATAATTCTGATGCTCACAGTACCACCTCAAGTGCCTCCCAGCTCAATCTCCTTGTTACAGTAACCG
 TCAGATGACGGCTCAGATACAGAGATGGCTTCTGGTTCTAACAGAACACCAAGTTTTTTCCTTTTAGATC
 TCACTTACTGGAAAAGACAGAAGATATGTTGTGGGATCATCTATAAAGGCCGTTTTGGGGAAGTCCTCAT
 TGACACACATCTTTCAAGCCTTGCTGCAGCAATAAGAAAGCAGCTGCTGAGAAGCCAGAGGAGCAGGGG
 CCAGAGCCTCTGCCCATCTCCACTCAGGAGTGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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Protein Sequence: >RG227909 representing NM_001135811
Red=Cloning site Green=Tags(s)

MFGFHKPKMYRSIEGCCICRAKSSSSSRFTDSKRYEKDFQSCFGLHETRSGDICNACVLLVKRWKKLPAGS
KKNNHVVVDARAGPSLKTTLKPKVKTL SGNRIKSNQISKLQKEFKRHNSDAHSTTSSASPAQSPCYSNQ
SDDGSDTEMASGSNRTVPVFSFLDLTYWKRQKICCGIYKGRFGEVLIDTHLFKPCSNNKAAAEEKPEEQG
PEPLPISTQEW

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001135811

ORF Size: 663 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:

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](#), [NP_001129283.1](#)

RefSeq Size: 3134 bp

RefSeq ORF: 666 bp

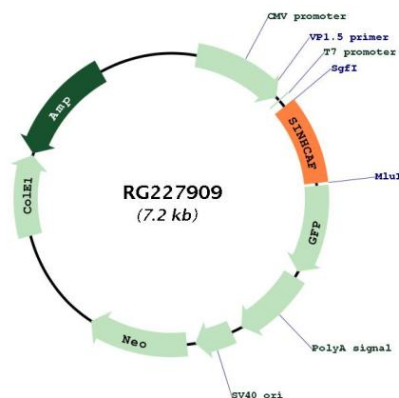
Locus ID: 58516

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]

Product images:



Circular map for RG227909