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Product datasheet for SC331289

CAIN (CABIN1) (NM_001199281) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: CAIN (CABIN1) (NM_001199281) Human Untagged Clone

Tag: Tag Free

Symbol: CABIN1

Synonyms: CAIN; KB-318B8.7; PPP3IN

Vector: pCMV6-Entry (PS100001)

Fully Sequenced ORF:

>SC331289 representing NM_001199281.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

ATGATTCGAATTGCAGCCTTAAATGCCAGCTCCACCATTGAGGATGATCATGAAGGAAGCTTTAAAAGT
CACAAAACCCAGACAAAGGAGGCTCAGGAAGCAGAGGCTTTTGCATTGTACCACAAGGCCCTTGATCTG
CAGAAACATGACCGGTTTGAGGAGTCTGCCAAAGCCTACCATGAGCTCTTGGAGGCGAGCCTGCTGCGG
GAGGCAGTTTCATCCGGTGATGAGAAAGAGGGGTTGAAACACCCTGGGCTGATACTGAAATATTCCACT
TATAAGAACTTGGCCCAGCTGGCAGCCCAGCGGGAGGATCTGGAGACAGCCATGGAGTTCTACTTAGAG
GCAGTGATGCTGGACTCCACAGATGTCAACCTCTGGTATAAGATTGGACATGTGGCCCTGAGGCTCATC
CGGATCCCCCTGGCTCGCCATGCTTTTGAGGAAGGGCTGCGGTGCAATCCTGACCACTGGCCCTGTTTG
GATAACCTAATCACTGTCCTGTACACCCTCAGTGATTACACAACATGTCTGTACTTCATCTGCAAAGCT
TTGGAGAAGGATTGCCGGTACAGCAAAGGGCTGGTCCTCAAGGAGAAGATTTTTGAGGAGCAGCCTTGT
CTCCGGAAGGACTCTCTCAGAATGTTCCTCAAATGTGACATGTCGATTCACGATGTTTCGGTGAGTGCA
GCTGAGACACAGGCGATTGTAGATGAGGCCTTGGGGCTGCGAAAAAAGAGGCAAGCGCTGATTGTGCGG
GAGAAGGAGCCGGACCTGAAACTTGTGCAGCCCATTCCTTTCTTCACCTGGAAGTGCCTCGGAGAGAGC
TTGCTGGCCATGTACAATCATCTCACCACCTGTGAGCCCCCACGTCCCAGCCTTGGCAAAAGGATTGAT
TTGTCGGACTACCAGGACCCCAGCCAGCCTCTTGAGTCCTCCATGGTGGTGACGCCAGTTAACGTGATC
CAGCCAAGCACTGTCAGCACCAACCCAGCTGTGGCTGTCGCCGAGCCTGTGGTCTCCTACACCTCTGTG
GCTACAACCAGCTTCCCACTGCACAGTCCTGGTCTGTTGGAGACAGGCGCTCCTGTGGGTGATATTTCT
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ATGAAGTTCTTGCCGTCCAGGTTAAGAAAGCTGGACCCTGAGGAGGAAGATGATTCCTTTAATAACTAT
GAAGTCCAGTCAGAAGCCAAACTGGAAAGCTTCCCAAGCATTGGGCCTCAAAGGCTGTCATTTGACTCA
GCCACATTCATGGAATCTGAAAAGCAGGACGTGCATGAGTTCCTGCTGGAGAACCTAACCAACGGGGGC
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GCCTCGTCCCAGCGCGACCTGTTCGAGGATGGTTGGCTGGAGTTTGTGGTCCGTGTTTACTGGCTGAAG
GCTCGCTTCCTGGCGCTGCAGGGAGACATGGAGCAGGCCCTGGAGAACTATGACATCTGCACAGAAATG

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CTCCAGAGTTCCACCGCCATCCAGGTGGAGGCAGGGGCTGAACGAAGAGACATTGTCATCCGGCTGCCC
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CCAGCCCAGCTGCTTCTTCTGCAGGACTCCTTGCTCCGGCTGAAGGACTATCGGCAGTGTTTTGAGTGT
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CAGAAGGAACTGGCTGCATCCACCTCTGAAGACACGCACCCTTACAAGGAGGAGCTGGAGACAGCCTTG
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GACAAGCTGAACTCCAATGAGCTGAAGAGTGATGGGCCCATTTGGAAGCATGCCACGCCCGTCTTGAAC
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TATGCCTTGCACTCATTCGCCTCACGTCAATTGAAGCAGTGGAGAGGCGAGCTGCCCCCTGAGCTCGTG
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TGCGAGGGTGATGGTGACGAGGAGGAGTGGCTCATCCACTACATGCTGGGCAAGGTGGCTGAGAAGCAG
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TGCCTGAGCCGCTTCCCCCAGCACTATAAGAGTCTCTACCGTCTGGCCTTCCTCTACACCTACAGCAAG
ACCCACCGGAACCTCCAGTGGGCCCGCGACGTGTTGCTAGGCAGCAGTATCCCGTGGCAACAACTGCAG
CACATGCCGGCACAGGGGCTCTTCTGCGAGAGGAACAAGACCAATTTCTTCAACGGCATCTGGCGGATC
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CCAGCCCCCGCCCCCGCCCCCGCCACCACCACAGGGACCAGGGCAGGGGGCCACCCGGAGGAGCCGCTC

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TCCCGGCTCAGCCGCAAGAGGAAGCTCCTGGAGGACACAGAGTCAGGCAAGACACTTCTGTTGGATGCC
TACCGTGTGTGGCAGCAGGGCCAGAAGGGTGTGGCCTATGACCTGGGCCGTGTGGAGAGGATCATGTCG
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GTCCATCTTGGGGCTGCCGCCCAGAGACAGGCCTCGGGGGACACCCCCACCACTCCAAAGCACCCCAAA
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CCTGAAGCTACCCCCAGCATGGCCTCTCTGGGCCCAGAGGGAGAAGAGCTGGCGAGAGTGGCAGAGGGC
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AGCATCTCGGAGGAGACCAAGCAGAAGCTGAAGTCAGCCATCCTTTCTGCCCAGTCTGCTGCCAACGTG
AGGAAGGAGAGCCTATGCCAGCCAGCCCTGGAGGTCCTGGAGACATCCAGCCAGGAGTCCTCGCTGGAG
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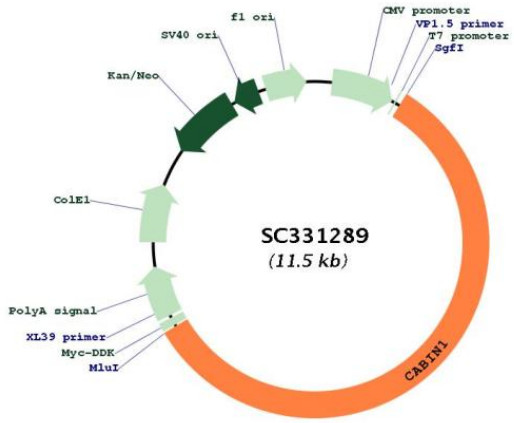
Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN: NM_001199281

Insert Size: 6663 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).

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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_001199281.1

RefSeq Size: 7528 bp

RefSeq ORF: 6663 bp

Locus ID: 23523

UniProt ID: Q9Y6J0

Cytogenetics: 22q11.23

Protein Families: Druggable Genome

MW: 246.4 kDa

Gene Summary: Calcineurin plays an important role in the T-cell receptor-mediated signal transduction pathway. The protein encoded by this gene binds specifically to the activated form of calcineurin and inhibits calcineurin-mediated signal transduction. The encoded protein is found in the nucleus and contains a leucine zipper domain as well as several PEST motifs, sequences which confer targeted degradation to those proteins which contain them. Alternative splicing results in multiple transcript variants encoding two different isoforms. [provided by RefSeq, Jan 2011]
Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (a). Both variants 1 and 2 encode the same isoform (a).

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