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Product datasheet for RC211750

CAIN (CABIN1) (NM_012295) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CAIN (CABIN1) (NM_012295) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CAIN
Synonyms:	CAIN; KB-318B8.7; PPP3IN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC211750 representing NM_012295
Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence:

>RC211750 representing NM_012295
Red=Cloning site Green=Tags(s)

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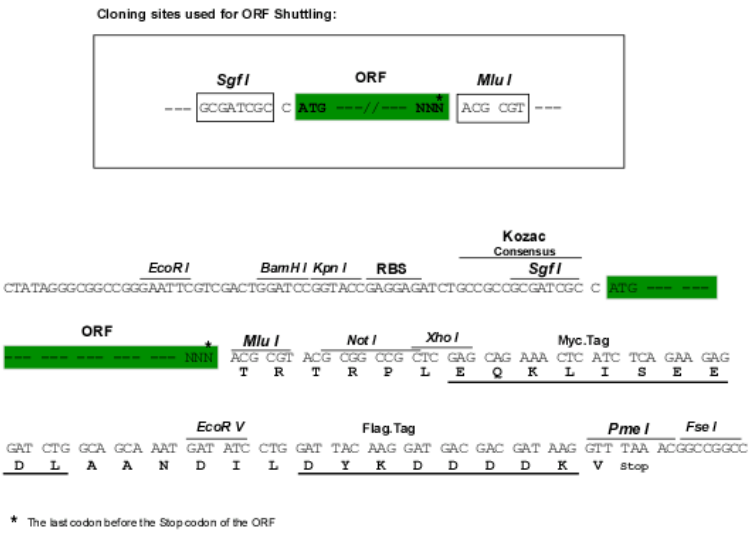
Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_012295

ORF Size: 6660 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_012295.2, NP_036427.1

RefSeq Size: 7222 bp

RefSeq ORF: 6663 bp

Locus ID: 23523

UniProt ID: Q9Y6J0

Cytogenetics: 22q11.23

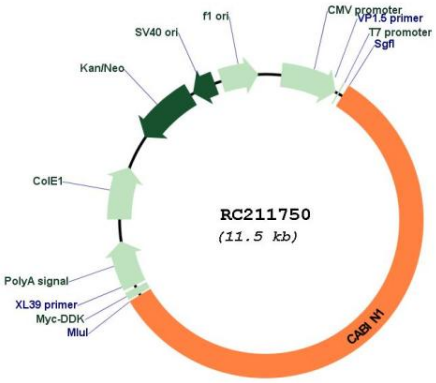
Domains: TPR

Protein Families: Druggable Genome

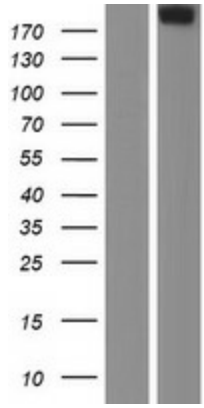
MW: 246.2 kDa

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]

Product images:



Circular map for RC211750



Western blot validation of overexpression lysate (Cat# [LY415858]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211750 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).