

Specifications:

Gene:	hCAV1
Accession:	NP_001744
Insert size:	549bp
Concentration:	10µg at 0.2µg/µL

hCaveolin-1 cDNA Plasmid

CAV1 caveolin 1 [*Homo sapiens* (human)]

Also known as: CGL3; PPH3; BSCL3; LCCNS; VIP21; MSTP085

Summary:

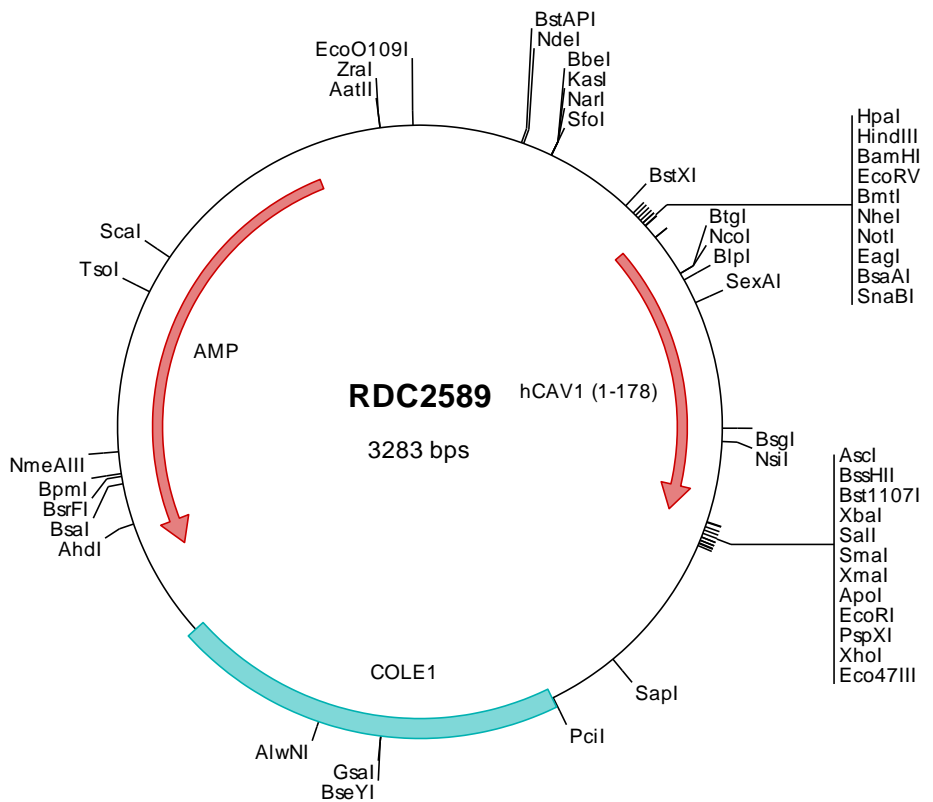
CAV1 is a scaffolding protein and is the component of the caveolae plasma membranes found in most cell types. CAV1 links integrin subunits to the tyrosine kinase FYN, an initiating step in coupling integrins to the Ras-ERK pathway and promoting cell cycle progression. Mutations in CAV1 have been associated with Berardinelli-Seip congenital lipodystrophy. Alternatively spliced transcripts encoding different proteins have been described.

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

Formulation cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping Ships at ambient temperature
Stability 1 year from date of receipt when stored at -20°C to -80°C
Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles.



> RDC2589 Plasmid DNA Sequence

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1 tcgctgctgtt cggatgatgac ggtgaaaacc totgacacat gcagctcccc gagacgggtca cagcttgtct gtaagcggat gccgggagca gacaagcccc
101 tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
201 ccgcacacat gcgtaaggag aaaataccgc atcaggcgcc attcgcatt caggctcgcg aactgttggg aagggcgatc ggtcggggcc tcttcgctat
301 tacgcccagct ggcgaaaagg ggatgtgctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgatt
401 ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgccaacc atgtctgggg gcaaatacgt agactcggag ggacatctct acaccgttcc
501 catccgggaa cagggcaaca tctacaagcc caacaacaag gccatggcag acgagctgag cgagaagcaa gtgtacgacg cgcacaccaa ggagatcgac
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> RDC2589 Translated Insert Sequence

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1 msggkyvdse ghlytvpire qgniykpnk amadelsekq vydahtkeid lvnrdpkhln ddvkkidfed viaepgths fdgiwkasft tftvtkywfy
101 rllsalfgip maliwgiyfa ilsflhiwaw vpciksflie iqcisrvysi yvhtvcdplf eavgkifsnv rinlqkei

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