

## Product datasheet for **RR200414**

### **Cav1 (NM\_031556) Rat Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cav1 (NM\_031556) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Cav1  
**Synonyms:** Cav  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RR200414 representing NM\_031556  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGTCTGGGGTAAATACGTAGACTCCGAGGGACATCTTACACTGTTCCCATCCGGGAACAGGGCAACA  
TCTACAAGCCCAACAACAAGGCCATGGCAGACGAGGTGAATGAGAAGCAAGTGTACGACGCGCACACCAA  
GGAGATTGATCTGGTCAACCGCGACCCCAAGCATCTCAACGACGACGTGGTCAAGATTGACTTTGAAGAT  
GTGATTGCGGAACCAGAAGGGACACACAGTTTCGACGGCATCTGGAAGGCCAGCTTCACCACCTTCACTG  
TGACAAAATATTGTTTTACCGCTTGCTGTCTACCATCTTCGGCATCCCTATGGCGCTCATCTGGGGCAT  
CTACTTTGCCATCCTCTTTTCTGCACATCTGGGCAGTTGTACCGTGCATCAAGAGCTTCTGATTGAG  
ATTCAGTGCATCAGCCGTGTCTATTCCATCTACGTCCACACCTTCTGTGATCCACTCTTTGAAGCGATTG  
GCAAGATATTCAGCAATATCCGCATCAGCACGCAGAAAGAGATAGCAAGATATTCAGCAATATCCGCATC  
AGCACGCAGAAAGAGATA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR200414 representing NM\_031556  
**Red=Cloning site Green=Tags(s)**

MSGGKYVDSEGHLYTVPIREQGNIIKPNKAMADEVNEKQVYDAHTKEIDLVNRDPKHLNDDVVKIDFED  
VIAEPEGTHSFDGIWKASFTTFTVTKYWFYRLLSTIFGIPMALIWGIYFAILSFLHIWAVVPCIKSFLIE  
IQCISRVSIIYVHTFCDPLFEAIGKIFSNIIRISTQKEIARYSAISASARRKR

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV



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Chromatograms: [https://cdn.origene.com/chromatograms/ja1526\\_d04.zip](https://cdn.origene.com/chromatograms/ja1526_d04.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_031556

ORF Size: 534 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 Size: 2584 bp

RefSeq ORF: 537 bp

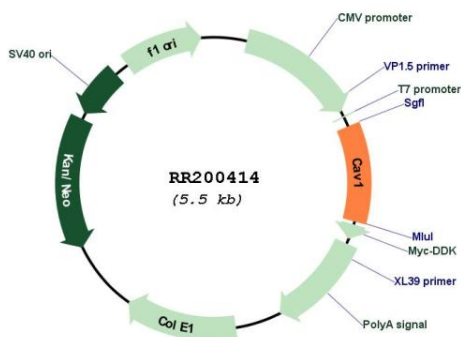
Locus ID: 25404

Cytogenetics: 4q21

**MW:** 20.6 kDa

**Gene Summary:** structural protein of lipid raft domains in the membrane called caveolae; functions as a cholesterol-binding/shuttling protein [RGD, Feb 2006]

**Product images:**



Circular map for RR200414