

Product datasheet for RG202703

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Caveolin 2 (CAV2) (NM_001233) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Caveolin 2 (CAV2) (NM 001233) Human Tagged ORF Clone

Tag: TurboGFP Symbol: Caveolin 2

Synonyms: CAV

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG202703 representing NM_001233

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGGGCTGGAGACGGAGAAGGCGGACGTACAGCTCTTCATGGACGACGACTCCTACAGCCACCACAGCG
GCCTCGAGTACGCCGACCCCGAGAAGTTCGCGGACTCGGACCAGGACCGGGATCCCCACCGGCTCAACTC
GCATCTCAAGCTGGGCTTCGAGGATGTGATCGCAGAGCCGGTGACTACGCACTCCTTTGACAAAGTGTGG
ATCTGCAGCCATGCCCTCTTTGAAATCAGCAAATACGTAATGTACAAGTTCCTGACGGTGTTCCTGGCCA
TTCCCCTGGCCTTCATTGCGGGAATTCTCTTTTGCCACCCTCAGCTGTCTGCACATCTGGATTTTAATGCC
TTTTGTAAAGACCTGCCTAATGGTTCTGCCTTCAGTGCAGACAATATGGAAGAGTGTGACAGATGTTATC
ATTGCTCCATTGTGTACGAGCGTAGGACGATGCTTCTCTTCTGTCAGCCTGCAACTGAGCCAGGAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG202703 representing NM_001233

Red=Cloning site Green=Tags(s)

MGLETEKADVQLFMDDDSYSHHSGLEYADPEKFADSDQDRDPHRLNSHLKLGFEDVIAEPVTTHSFDKVWICSHALFEISKYVMYKFLTVFLAIPLAFIAGILFATLSCLHIWILMPFVKTCLMVLPSVQTIWKSVTDVI

IAPLCTSVGRCFSSVSLQLSQD

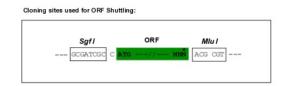
TRTRPLE - GFP Tag - V

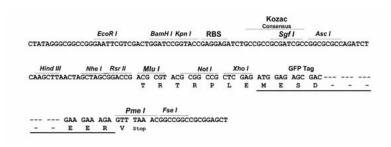
Restriction Sites: Sgfl-Mlul





Cloning Scheme:





ACCN: NM_001233

ORF Size: 486 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with

0.22um filter is required.

RefSeq: <u>NM 001233.5</u>

RefSeq Size: 3332 bp RefSeq ORF: 489 bp



Locus ID: 858

UniProt ID: P51636

Cytogenetics: 7q31.2

Domains: Caveolin

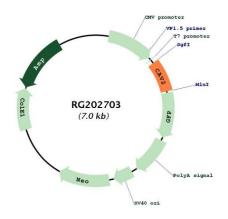
Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Focal adhesion

Gene Summary: The protein encoded by this gene is a major component of the inner surface of caveolae,

small invaginations of the plasma membrane, and is involved in essential cellular functions, including signal transduction, lipid metabolism, cellular growth control and apoptosis. This protein may function as a tumor suppressor. This gene and related family member (CAV1) are located next to each other on chromosome 7, and express colocalizing proteins that form a stable hetero-oligomeric complex. Alternatively spliced transcript variants encoding different isoforms have been identified for this gene. Additional isoforms resulting from the use of alternate in-frame translation initiation codons have also been described, and shown to have preferential localization in the cell (PMID:11238462). [provided by RefSeq, May 2011]

Product images:



Circular map for RG202703