

Product datasheet for RG210118

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Caveolin 3 (CAV3) (NM_001234) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Caveolin 3 (CAV3) (NM 001234) Human Tagged ORF Clone

Tag: TurboGFP Symbol: Caveolin 3

Synonyms: LGMD1C; LQT9; MPDT; RMD2; VIP-21; VIP21

Mammalian Cell

Selection:

Neomycin

Vector: pCMV6-AC-GFP (PS100010)

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

ORF Nucleotide >RG210118 representing NM_001234

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

TTTTGTAATACGACTCACTATAGGGCCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGATGGCAGAAGAGCACACAGATCTCGAGGCCCAGATCGTCAAGGATATCCACTGCAAGGAGATTGACC
TGGTGAACCGAGACCCCAAGAACATTAATGAGGACATAGTCAAGGTGGATTTTGAAGACGTGATCGCAGA
GCCTGTGGGCACCTACAGCTTTGACGGCGTGTGGAAGGTGAGCTACACCACCTTCACTGTCTCCAAGTAC
TGGTGCTACCGTCTGTTGTCCACGCTGCTGGGCGTCCCACTGGCCCTGCTCTGGGGCTTCCTGTTCGCCT
GCATCTCCTTCTGCCACATCTGGGCGGTGGCCATGCATTAAGAGCTACCTGATCGAGATCCAGTGCAT
CAGCCACATCTACTCACTCTGCATCCGCACCTTCTGCAACCCACTCTTCGCGGCCCTGGGCCAGGTCTGC

AGCAGCATCAAGGTGGTGCTGCGGAAGGAGGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG210118 representing NM_001234

Red=Cloning site Green=Tags(s)

MMAEEHTDLEAQIVKDIHCKEIDLVNRDPKNINEDIVKVDFEDVIAEPVGTYSFDGVWKVSYTTFTVSKY WCYRLLSTLLGVPLALLWGFLFACISFCHIWAVVPCIKSYLIEIQCISHIYSLCIRTFCNPLFAALGQVC

SSIKVVLRKEV

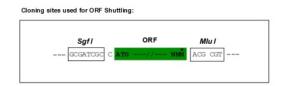
TRTRPLE - GFP Tag - V

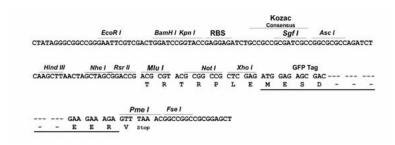
Restriction Sites: Sgfl-Mlul





Cloning Scheme:





ACCN: NM_001234

ORF Size: 453 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.

RefSeg: NM 001234.3, NP 001225.1

P56539

RefSeq Size:1329 bpRefSeq ORF:456 bpLocus ID:859

UniProt ID:



Cytogenetics: 3p25.3

Protein Families: Druggable Genome, Transmembrane

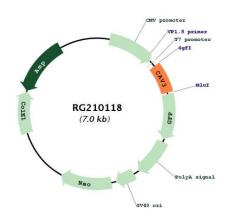
Protein Pathways: Focal adhesion

Gene Summary: This gene encodes a caveolin family member, which functions as a component of the

caveolae plasma membranes found in most cell types. Caveolin proteins are proposed to be scaffolding proteins for organizing and concentrating certain caveolin-interacting molecules. Mutations identified in this gene lead to interference with protein oligomerization or intracellular routing, disrupting caveolae formation and resulting in Limb-Girdle muscular dystrophy type-1C (LGMD-1C), hyperCKemia or rippling muscle disease (RMD). Alternative splicing has been identified for this locus, with inclusion or exclusion of a differentially spliced intron. In addition, transcripts utilize multiple polyA sites and contain two potential translation initiation sites. Introvided by DefCon. Jul 2008.

initiation sites. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG210118