

## Product datasheet for **RG221140**

### Caveolin 3 (CAV3) (NM\_033337) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Caveolin 3 (CAV3) (NM\_033337) 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 Sequence:** >RG221140 representing NM\_033337  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGATGGCAGAAGAGCACACAGATCTCGAGGCCAGATCGTCAAGGATATCCACTGCAAGGAGATTGACC  
 TGGTGAACCGAGACCCCAAGAACATTAACGAGGACATAGTCAAGGTGGATTTTGAAGACGTGATCGCAGA  
 GCCTGTGGGCACCTACAGCTTTGACGGCGTGTGGAAGGTGAGCTACACCACCTTCACTGTCTCCAAGTAC  
 TGGTGCTACCGTCTGTTGTCCACGCTGCTGGGCGTCCCACTGGCCCTGCTCTGGGGCTTCTCTGCGCT  
 GCATCTCCTTCTGCCACATCTGGGCGGTGGTGCATGCATTAAGAGCTACCTGATCGAGATCCAGTGCAT  
 CAGCCACATCTACTCACTCTGCATCCGCACCTTCTGCAACCCACTCTTCGCGGCCCTGGGCCAGGTCTGC  
 AGCAGCATCAAGGTGGTCTGCGGAAGGAGGTC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >RG221140 representing NM\_033337  
 Red=Cloning site Green=Tags(s)

MMAEEHTDLEAQIVKDIHCKEIDLVNRDPKNINEDIVKVFEDVIAEPVGTYSFDGVMKVSYTTFTVSKY  
 WCYRLLSTLLGVPLALLWGFLFACISFCHIWAIVVPCIKSYLIEIQCISHIYSLCIRTFCNPLFAALGQVC  
 SSIKVVLRKEV

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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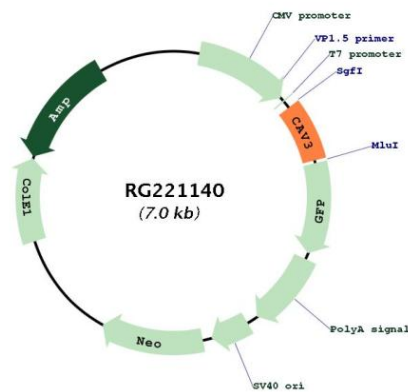
Cytogenetics: 3p25.3

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. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RG221140