

OriGene Technologies, Inc.

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Product datasheet for RG210274

Caveolin 1 (CAV1) (NM_001753) Human Tagged ORF Clone

Product data:

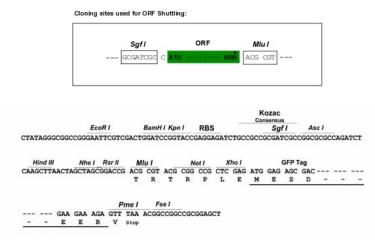
Product Type:	Expression Plasmids
Product Name:	Caveolin 1 (CAV1) (NM_001753) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Caveolin 1
Synonyms:	BSCL3; CGL3; LCCNS; MSTP085; PPH3; VIP21
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	<pre>>RG210274 representing NM_001753 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGTCTGGGGGCAAATACGTAGACTCGGAGGGACATCTCTACACCGTTCCCATCCGGGAACAGGGCAACA TCTACAAGCCCAACAACAAGGCCATGGCAGACGAGCTGAGCGAGAAGCAAGTGTACGACGCGCACACCAA GGAGATCGACCTGGTCAACCGCGACCCTAAACACCTCAACGATGACGTGGTCAAGATTGACTTTGAAGAT GTGATTGCAGAACCAGAAGGGACACACAGTTTTGACGGCATTTGGAAGGCCAGCTTCACCACCTTCACTG TGACGAAATACTGGTTTTACCGCTTGCTGTCTGCCCTCTTTGGCATCCGATGGCACTCATCTGGGGCAT TTACTTCGCCATTCTCTTTTCCTGCACATCTGGGCAGTTGTACCATGCATTAAGAGCTTCCTGATTGAG ATTCAGTGCATCAGCCGTGTCTATTCCATCTACGTCCACACCGTCTGTGACCCACTCTTGAAGCTGTTG GGAAAATATTCAGCCATGTCTCACACCTTGCAGAAAGAAA
Protein Sequence:	ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA >RG210274 representing NM_001753 Red=Cloning site Green=Tags(s)
	MSGGKYVDSEGHLYTVPIREQGNIYKPNNKAMADELSEKQVYDAHTKEIDLVNRDPKHLNDDVVKIDFED VIAEPEGTHSFDGIWKASFTTFTVTKYWFYRLLSALFGIPMALIWGIYFAILSFLHIWAVVPCIKSFLIE IQCISRVYSIYVHTVCDPLFEAVGKIFSNVRINLQKEI
	TRTRPLE - GFP Tag - V
Restriction Sites:	Sgfl-Mlul



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Cloning Scheme:

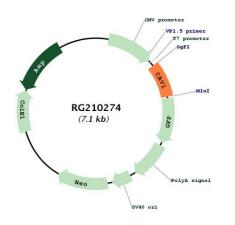


ACCN:	NM_001753
ORF Size:	534 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <u>More info</u>
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:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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:	<u>NM 001753.5</u>
RefSeq Size:	2704 bp
RefSeq ORF:	537 bp
Locus ID:	857
UniProt ID:	<u>Q03135</u>

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ORIGENE Caveolin 1 (CAV1) (NM_001753) Human Tagged ORF Clone – RG210274		
Cytogenetics:	7q31.2	
Domains:	Caveolin	
Protein Families:	Druggable Genome, Transmembrane	
Protein Pathways:	Focal adhesion, Viral myocarditis	
Gene Summary:	The scaffolding protein encoded by this gene is the main component of the caveolae plasma membranes found in most cell types. The protein links integrin subunits to the tyrosine kinase FYN, an initiating step in coupling integrins to the Ras-ERK pathway and promoting cell cycle progression. The gene is a tumor suppressor gene candidate and a negative regulator of the Ras-p42/44 mitogen-activated kinase cascade. Caveolin 1 and caveolin 2 are located next to each other on chromosome 7 and express colocalizing proteins that form a stable hetero-oligomeric complex. Mutations in this gene have been associated with Berardinelli-Seip congenital lipodystrophy. Alternatively spliced transcripts encode alpha and beta isoforms of caveolin 1.[provided by RefSeq, Mar 2010]	

Product images:



Circular map for RG210274

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