

Product datasheet for **RG223714**

CAVIN4 (NM_001018116) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CAVIN4 (NM_001018116) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CAVIN4
Synonyms:	cavin-4; MURC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG223714 representing NM_001018116 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAACATAATGGGTCTGCTTCAAATGCTGATAAAATCCACCAGAATCGCCTGTCGAGTGTTACAGAAG
ATGAAGACCAAGACGCTGCTCTTACCATTGTGACTGTGCTGGACAAAGTAGCCTCCATCGTGACAGTGT
GCAGGCAAGCCAGAAGAGAATAGAAGAGAGACACAGGAAATGGAAAATGCCATAAAATCCGTCCAGATT
GACCTGTTGAAGCTTTCACAGTCGCATAGCAATACAGGGCATATCATTAACAAATGTTTGAGAAAACCC
GAAAAGTTAGTGCTCACATTAAGATGTGAAAGCCGGGTGGAGAAGCAAAATTCATGTTAAAAAAGT
TGAAGTCAAGCAAGGAAATAATGAAGAAAAACAAATTCGCGTGGTAATATCCAGGAGAAGTTTCGG
TGTCGCACATCCCTGTCTGTTGTTAAAGACAGAAACCTAACTGAGAACCAAGAAGAGGATGATGATGATA
TCTTTGATCCCCAGTAGATCTGTCTTCGGATGAAGAATATTATGTTGAAGAAAGCAGATCTGCCAGGCT
TAGGAAGTCAGGCAAGGAGCACATTGATAATATCAAGAAGGCATTTTCCAAAGAAAACATGCAGAAGACA
CGGCAGAATCTTGACAAGAAAGTGAACAGAATTAGAACTAGAATAGTGACCCCGGAGAGGAGAGAGAGGC
TAAGGCAGTCAGGAGAGAGGCTGAGACAGTCAGGGGAGAGGCTGAGACAGTCAGGGGAGAGGTTTAAAGAA
ATCTATTTCTAATGCAGCTCCCTCAAAGGAAGCTTTTAAAGATGCGCAGCCTCAGGAAAGGTAAGGACCGA
ACAGTGGCTGAAGGTGAGGAATGTCCAGGGAGATGGGTGTGGACATCATTGCCAGGAGCGAGTCTCTGG
GCCCCATCAGTGAGCTCTACTCTGATGAGCTCAGTGAACCAGAACACGAGGACGCCAGGCCGGTGTATCC
TCCCCATGAAGGAAGGAAATCCCCACCCCGAGCCTTTAAAAGTTACTTTTAAATCTCAGGTGAAAGTA
GAGGATGATGAATCTCTTTGTTAGATTTAAAGCACTCATCG

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG223714 representing NM_001018116
Red=Cloning site Green=Tags(s)

```
MEHNGSASNADKIHQNRLLSSVTEDEDQDAALTIVTLVDKVASIVDSVQASQKRIEERHREMENAIAKSVQI
DLLKLSQSHSNTGHIINKLFEKTRKVSAAHKDVKARVEKQQIHVKKVEVKQEEIMKKNKFRVVFQEKFR
CPTSLSVVKDRNLTENQEEDDDIFDPPVDLSSDEEYVVEESRSARLRKSGKEHIDNIKKAFSKENMQKT
RQNLDDKVNRI RTRIVTPERRERLRQSGERLRQSGERLRQSGERFKKSI SNAAPSKAEAFKMRSLRKGKDR
TVAEGEECAREMGVDIIARSESLGPISELYSDELSEPEHEAARPVYPPHEGREIPTPEPLKVTFKSQVKV
EDDESLLLLDLKHSS
```

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja1974_a05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



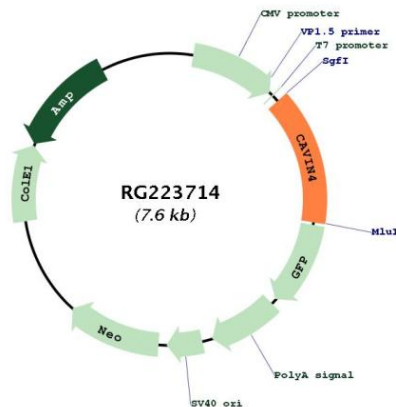
ACCN: NM_001018116

ORF Size: 1092 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<ol style="list-style-type: none"> 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:	<u>NM_001018116.2, NP_001018126.1</u>
RefSeq Size:	2640 bp
RefSeq ORF:	1095 bp
Locus ID:	347273
UniProt ID:	<u>Q5BKX8</u>
Cytogenetics:	9q31.1
Gene Summary:	This gene encodes a protein containing two coiled-coil regions. The encoded protein promotes Rho/ROCK (Rho-kinase) signaling in cardiac muscles cells, and may facilitate myofibrillar organization. [provided by RefSeq, Jun 2013]

Product images:


Circular map for RG223714