

Product datasheet for **RR212088**

Cavin2 (NM_001007712) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cavin2 (NM_001007712) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Cavin2
Synonyms: MGC94054
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR212088 representing NM_001007712
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGC**C

ATGGGAGAGGACGCTGCACAGGCAGAAAAGTTCAGCACCCAAATACAGACATGCTCCAGGAGAAGCCAT
CCAACCCAGTCCAATGCCTTCCACACCGAGCCCCAGCCTGAATCTGGGGTCCACAGAGGAGGCCAT
CCGAGACAACACAGGTGAATGCTGTACCGTGCACACTCTCCTGGATAAATTGGTCAACATGCTGGAC
GCCGTGAGGGAGAACCAGCACAACATGGAGCAGCGGCAGATCAACCTGGAGGGCTCGGTGAAGGGCATCC
AGAATGACCTACCAAGCTCTCCAAGTACCAGGCCTCCACCAGCAACACAGTGAGCAAGCTGCTGGAGAA
GTCTCGCAAGGTGAGCGCTCACACGCGTGTGTTCCGGAGCGCCTAGAGAAGCAGTGTGTACAGGTGAAG
AGGCTGGAGAACAACCACGCTCAACTCCTCCGACGCAACCACTTCAAAGTGCTCATCTTCCAGGAAGAAA
GTGAGATCCCTGCCAGTGTGTTGTGAAGGAGCCAGTCCCAGCACTGCAGAAGGCAAGGAGCTTGCTGA
TGAGAACAAGTCTTGGAGGAACTCTGCACAATGTGGACCTCTCCTCCGATGACGAATTGCCCGGTGAT
GAGGAAGCCCTGGAAGATAGTGCAGAAGAGAAGATGGAGGAAAGCAGGGCAGAAAAGATAAAAAGATCCA
GCCTCAAGAAAGTGGATAGCCTCAAGAAAGCATTTCGCGAGAATATCGAGAAAAGATGAACAAGCT
GGGAACAAAGATCGTATCTGTTGAGAGGAGAGAAAAGATTAAGAAATCGCTCACTCCCAACCACAGAAA
GCATCATCTGGGAAAAGCTCCCCCTCAAGGTTTCTCCCTTTCTCGGTGCGGAAGAAAATCCGAGAGG
GAGAAAGCTCTGCAGAAAATGAGACAACTGGAAGAGCAGGTGCAGGACGACCATGAGGAGGGCTCGTT
CACAGAAGGTCTTCTGAAGCATCCCTCCCCAGCGCCTGTTGGAGGGCAGCGCAGAAGATGCTGAGAAG
TCAGCATTGAGAGGGAACAACACTCAGGCGTGGGCAGCAATGCCGATCTGACCATTGAAGAAGTGAAGAAG
AGGAGTCGGTGGCCCTGCAGCAGGCCAGCAGGTGCGCTATGAGAGTGGTACATGCTCAACTCCAAGGA
GATGGAGGAATCCAGTGAGAAACACGTCCAGCGGCTGTGCTGCATGTGGATCAGACTGCC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA



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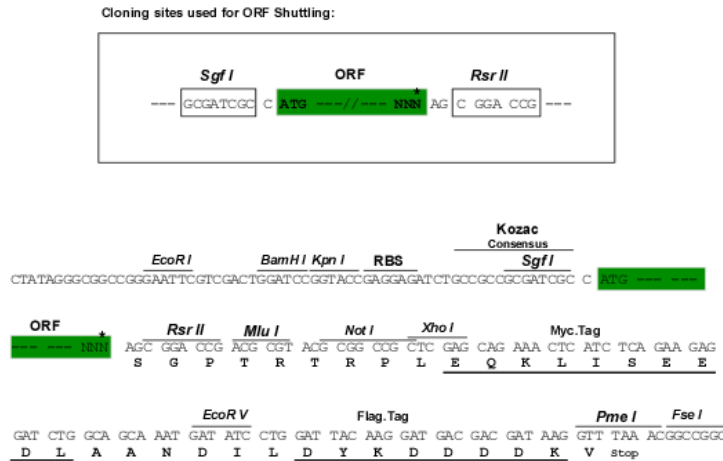
Protein Sequence: >RR212088 representing NM_001007712
 Red=Cloning site Green=Tags(s)

MGEDAAQAEKFQHPNTDMLQEKPSNPSPMPSSTPSPSLNLGSTEAAIRDNSQVNAVTVHTLLDKLVNMLD
 AVRENQHNMEQRQINLEGSVKGIQNDLTKLSKYQASTSNTVSKLLEKSRKVSATRAVRERLEKQCVQVK
 RLENNHAQLLRNHFVKVLIHQEESEIPASVFKPEVPSTAEGKELADENKSLEETLHNVDLSSDDELPGD
 EEALSDSAEEKMEESRAEKIKRSSLKVKVDSLKKAQSRQNIKKMNKLGTKIVSVRERREIKKSLTPNHQK
 ASSGKSSPFKVSPLSFGRRKIREGESSAENETKLEEQVQDDHEEGSFTEGLSEASLPSGLLEGSAAEDAEK
 SALRGNNSGVGSNADLTIEEDEEEESVALQQAQVRYESGYMLNSKEMEESEKQVAAVLHVDQTA

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

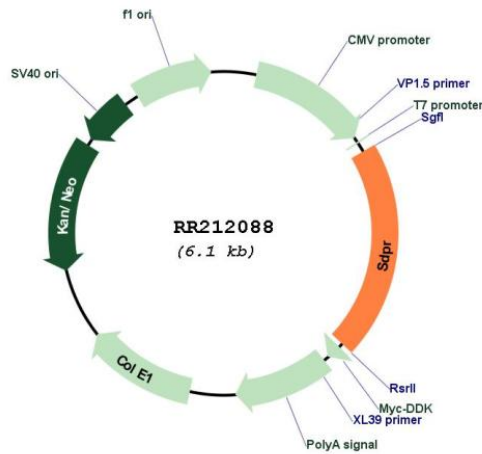
Restriction Sites: SgfI-RsrII

Cloning Scheme:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001007712

ORF Size:	1251 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:	<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:	NM_001007712.1 , NP_001007713.1
RefSeq Size:	2148 bp
RefSeq ORF:	1254 bp
Locus ID:	316384
UniProt ID:	Q66H98
Cytogenetics:	9q22
MW:	46.4 kDa
Gene Summary:	Plays an important role in caveolar biogenesis and morphology. Regulates caveolae morphology by inducing membrane curvature within caveolae. Plays a role in caveola formation in a tissue-specific manner. Required for the formation of caveolae in the lung and fat endothelia but not in the heart endothelia. Negatively regulates the size or stability of CAVIN complexes in the lung endothelial cells (By similarity). May play a role in targeting PRKCA to caveolae (PubMed:9566962).[UniProtKB/Swiss-Prot Function]