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Product datasheet for MR206626

Cavin2 (NM_138741) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cavin2 (NM_138741) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cavin2
Synonyms:	Sdpr
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR206626 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGAGAGGACGCTGCACAGGCAGAAAAGTTCCAGCATCCAAACACAGACATGCTCCAGGAGAAGCCAT
CCAGCCCCAGCCCAATGCCTTCCTCCACACCGAGCCCCAGCCTGAACCTGGGGTCCACAGAGGAGGCCAT
CCGAGACAACTCGCAGGTGAATGCTGTCACCGTGCACACACTCCTGGATAAATTGGTCAACATGCTGGAC
GCCGTGAGGGAGAACCAGCACAACATGGAACAGCGTCAGATCAACCTGGAGGGCTCGGTGAAGGGCATCC
AGAACGACCTCACCAAGCTCTCCAAGTACCAGGCCTCCACCAGCAACACAGTGAGCAAGCTGCTAGAGAA
GTCTCGCAAGGTCAGCGCTCACACGCGGGCTGTCCGGGAGCGCCTCGAGAGGCAGTGTGTCCAGGTGAAG
AGACTGGAGAACAACCACGCCCAACTCCTCCGACGCAACCACTTCAAAGTGCTCATCTTCCAGGAAGAAA
GTGAGATCCCTGCCAGTGTGTTTGTGAAGGAGCCAGTTCCCAGCGCTGCAGAAGGCAAGGAGGAGCTTGC
TGATGAGAACAAGTCCCTGGAGGAAACTCTGCACAACGTGGACCTCTCCTCTGATGACGAATTGCCCCGT
GATGAGGAAGCCCTGGAAGATAGTGCAGAAGAGAAGATGGAAGAAAGCAGGGCAGAAAAAATAAAAAGAT
CCAGCCTCAAGAAAGTCGATAGCCTCAAGAAAGCGTTTTCTCGTCAGAACATCGAGAAAAAGATGAACAA
GCTGGGAACCAAGATCGTATCTGTTGAGAGGAGAGAAAAGATTAAGAAATCGCTCACACCCAACCACCAG
AAAGCATCTTCTGGGAAAAGCTCCCCCTTCAAGGTTTCTCCCCTCTCCTTTGGTCGTAAGAAAGTCCGAG
AGGGAGAAAGCTCTGTAGAAAATGAGACCAAGTTGGAAGACCAGATGCAGGAGGACCGCGAGGAGGGTTC
GTTCACAGAGGGTCTTTCTGAAGCATCCCTCCCCAGTGGCCTGATGGAGGGCAGCGCAGAAGATGCTGAG
AAATCAGCAAGGAGAGGGAACAACTCAGCCGTGGGCAGTAATGCGGATCTGACCATTGAGGAAGATGAAG
AAGAGGAGCCGGTAGCCCTGCAGCAGGCCCAGCAGGTGCGCTATGAGAGTGGCTACATGCTCAACTCCGA
GGAGATGGAGGAACCCAGTGAGAAACAGGTCCAGCCAGCTGTGCTGCATGTGGATCAGACTGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

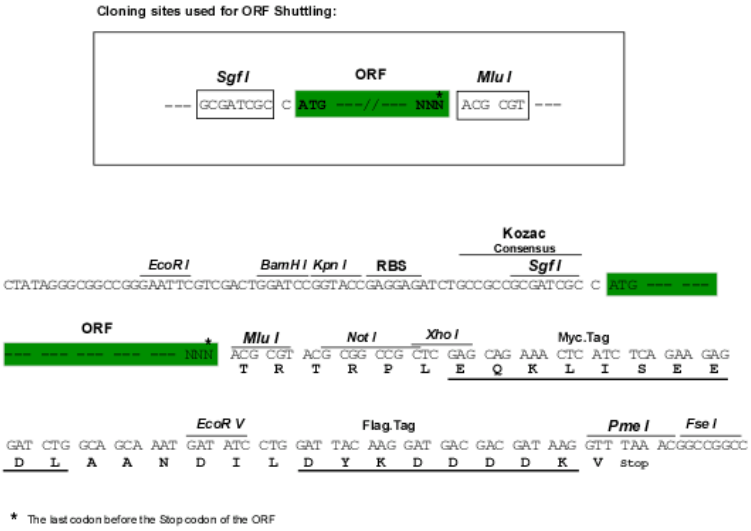
>MR206626 protein sequence
Red=Cloning site Green=Tags(s)

MGEDAAQAEKFQHPNTDMLQEKPSSPSPMPSSTPSPSLNLGSTEEAIRDNSQVNAVTVHTLLDKLVNMLD
AVRENQHNMEQRQINLEGSVKGIQNDLTKLSKYQASTSNTVSKLLEKSRKVSAHTRAVRERLERQCVQVK
RLENNHAQLLRRNHFKVLIFQEESEIPASVFVKEPVPSAAEGKEELADENKSLEETLHNVDLSSDDELPR
DEEALEDSAEEKMEESRAEKIKRSSLKKVDSLKKAFSRQNIEKKMNKLGTKIVSVERREKIKKSLTPNHQ
KASSGKSSPFKVSPLSFGRKKVREGESSVENETKLEDQMQEDREEGSFTEGLSEASLPSGLMEGSAEDAE
KSARRGNNSAVGSNADLTIEEDEEEEPVALQQAQQVRYESGYMLNSEEMEEPSEKQVQPAVLHVDQTA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_138741

ORF Size: 1257 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.

RefSeq: NM_138741.1, NP_620080.1

RefSeq Size: 3069 bp

RefSeq ORF: 1257 bp

Locus ID: 20324

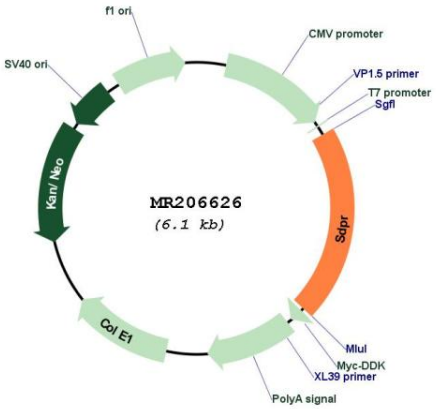
UniProt ID: Q63918

Cytogenetics: 1 C1.1

MW: 46.8 kDa

Gene Summary: Plays an important role in caveolar biogenesis and morphology. Regulates caveolae morphology by inducing membrane curvature within caveolae (By similarity). 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 (PubMed:23652019). May play a role in targeting PRKCA to caveolae (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206626