

Product datasheet for **MC202054**

Cav1 (NM_007616) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cav1 (NM_007616) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cav1
Synonyms:	Cav; Cav-1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC052859 sequence for NM_007616
AAGAGGTAATCCAGCCACGCGCCAGCATGTCTGGGGGCAATACGTAGACTCCGAGGGACATCTCTACAC
TGTTCCCATCCGGGAACAGGGCAACATCTACAAGCCCAACAACAAGGCCATGGCAGACGAGGTGACTGAG
AAGCAAGTGTATGACGCGCACACCAAGGAGATTGACCTGGTCAACCGCGACCCCAAGCATCTCAACGACG
ACGTGGTCAAGATTGACTTTGAAGATGTGATTGCAGAACCAGAAGGGACACACAGTTTCGACGGCATCTG
GAAGGCCAGCTTACCACCTTCACTGTGACAAAAATTTGGTTTTACCCTTGTGTCTACGATCTTCGGC
ATCCCAATGGCACTCATCTGGGCATTTACTTTGCCATTCTCCTTCCCTGCACATCTGGGCGGTGTAC
CGTGCCATCAAGAGCTTCCCTGATTGAGATTCAAGTGCATCAGCCGCGTCTACTCCATCTACGTCATACCTT
CTGCGATCCACTCTTTGAAGCTATTGGCAAGATATTCAGCAACATCCGCATCAGCACGCAGAAAAGAGATA
TGAGGGACATTTCAAGGATGAAAGGTTTTTTCCCCCTTACTATTTCTTGGTGCCAATCCAAGTTGC
TCTCGCAGCAGCAAAATTTATGAATGGTTTGTCTTGATCAAGAACAAGAATTCATCCCACCATTCTCAT
ATATACTACTTGTCTTCTAAGCTACTGCATCTATGTTTGACAGTCTGGAATGTTAAACCCATTCTCTG
CTCTCTCTTTATATGTGAATCATTGTTTCATTGGCTAAAATATAAACATATTGTTGAAATATGATTGGA
GAAAAATAGGAAGGACTGGGAGGCAGGGAAGGTACCAACAACCTCAACTGCCTACTCAAAGGTGATGAT
GTCATACAAAGGGAAGAGATTACAGTTACGGCCATTTGTTTAGGGGCATGAAGGAACGTTTTTAATATAT
GCCAGTTATCTAAGGAATTGGTTGCTGTCTCACTCTTAAACAATCCAGTTAGATTAGGGATTTAGGGAT
CACCATCAATTTGGAGACTATAATCTTTCATGATACCAACAATGTTTTACTTATCCTGGCATTTTAACCTG
TTATTTTGTATGCCTGAATATTTGCTATACTGAGAATAAGACCTACGTGCCTTCTAATTTTTCATGTTTT
TTTTTTCCAAATAGGATCTAACTCATCTACTTGATGATGCCGGCAGCTTTCCTAAAAACAACATAC
AAATTGCACCTTGCTAGTTCTCTGTACTTGTCTGACTCTGAAATACAGAACCTGTTGATGTTGATATCT
GTGCTCAGCTATGTAGCATCTTCTCTCTGTTAAGCCTGGTCAACATTAACCCAATGAAATGATTGGAG
CAGACAAATGGGGTGAGACCTCTCTGGACTGGCAGAAGTAGAAGCCAGCTTTCCTGCCACTCAGCAAC
TGAATGAGGCCAGCGTGTCTATTACAGTTCACTCATTTCAGAATAATCACAGGTTCTGACTTAAGC
CAGCCCCCTCACCAGGATCAAGGTTTAGTGACTGACTGGGATGATTTAGGAGCTCAACATTGTACTTCCTT
TTCAGCTGATGAGTGAACCTCCAGGAGGGGTGTCAAAAAGGAGGCTGCTAAACCAGACTGCCAAGCCT
GTTGTAACATGACCCCTTTTATGCAAAGCCCTTGAATAGTCTGCAATGCTGTGAAGCTCGACCTTTCC
CCCTGCAAGGAACCTTTGACCTAATCCAACCATCATTTTGTTCAGAAAGGTGGGGGAAGGGTGGTAACAA
AAGCTTGAGGTAATGTTCTTGTGGAATAAATTCAAGTTTTTCTGAACCCAACTGAGGAATTTACCTG
TGTACCTGAGTCTCCAGAAAGCTGCCTGCCTGGGACACCCAAAAGCCTTTTACTTCCAGCTCACATTAC
AGCTCTGCCCTTGGGGATATTTTAAAAATCCAGATAGGCTTTTATTTTCACTTTCATACATGTATTGGA
ACCCTGCTTGACTTGTCTTCTCCTTCAAGTCTTGGCAGACTTTACCAACCTGCTACTACTTTGATTGAT
TGCAATTTAAACAGACACTGGCATGGCCACAGTTTGAATTTTAACTGTGCACATAACTGAAAGTGTACT
AGACTGTATACCTTTTTACATGTAGAGATATTCTTTATCTTTATATAAGGAGAATCACTTGGGAAGTGTAT
TCTACAATTCAGTCTGTAACCTGCGTGTCCAAGACATGTCTGTTCTCCCTAGATACTCAGTTTTATACA
AGTCAATTGCTGATCCAAAAGGTTACTGAAATTTATATGCTTACTGATATATTTTACACTTTTTTATGC
TGCATGTCCTATAAAGATTTCAAATCTGCACAATAAAATTGTTTAAACAGTAAAAAAAAAAAAAAAAAAAAA G

Restriction Sites: RsrII-NotI

ACCN: NM_007616

Insert Size: 537 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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: [BC052859](#), [AAH52859](#)

RefSeq Size: 2451 bp

RefSeq ORF: 537 bp

Locus ID: 12389

UniProt ID: [P49817](#)

Cytogenetics: 6 A2

Gene Summary: May act as a scaffolding protein within caveolar membranes (By similarity). Forms a stable heterooligomeric complex with CAV2 that targets to lipid rafts and drives caveolae formation. Mediates the recruitment of CAVIN proteins (CAVIN1/2/3/4) to the caveolae (PubMed:19546242). Interacts directly with G-protein alpha subunits and can functionally regulate their activity (By similarity). Involved in the costimulatory signal essential for T-cell receptor (TCR)-mediated T-cell activation. Its binding to DPP4 induces T-cell proliferation and NF-kappa-B activation in a T-cell receptor/CD3-dependent manner (By similarity). Recruits CTNNB1 to caveolar membranes and may regulate CTNNB1-mediated signaling through the Wnt pathway (PubMed:10816572). Negatively regulates TGFBR1-mediated activation of SMAD2/3 by mediating the internalization of TGFBR1 from membrane rafts leading to its subsequent degradation (By similarity).[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (1) encodes the longest isoform (1).