OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC315133

DAAM2 (NM_015345) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: DAAM2 (NM_015345) Human Untagged Clone

Tag: Tag Free

Symbol: DAAM2

Synonyms: dJ90A20A.1

Vector: pCMV6 series

Fully Sequenced ORF:

>NCBI ORF sequence for NM_015345, the custom clone sequence may differ by one or more nucleotides

ATGGCCCCCCGCAAGAGGAGCCACCATGGCCTGGGCTTCCTGTGCTGCTTCGGGGGCAGT
GACATCCCCGAAATCAACCTCCGGGACAACCACCCTCTGCAGTTCATGGAGTTCTCCAGC
CCCATCCCGAACGCAGAGGAGCTCAACATCCGCTTTGCAGAGCTGGTGGATGAATTGGAT
CTCACTGACAAAAACCGAGAGGCTATGTTTGCACTGCCCCCTGAGAAGAAATGGCAGATC
TACTGCAGCAAGAAGAAGGAGCAGGAGGACCCCAACAAGCTGGCAACCAGCTGGCCTGAC
TATTACATCGACCGCATCAATTCCATGGCTGCGATGCAGAGTCTGTACGCGTTTGATGAG
GAGGAGACGGAGATGAGGAACCAAGTCGTGGAAGACCTGAAGACAGCCCTCCGGACACAG
CCTATGAGGTTTGTGACCCGCTTCATTGAGCTGGAGGGCTTGACCTGTCTGCTAAATTTC
CTCCGGAGCATGGACCACGCCACCTGTGAGAGCCGCATCCACACCTCACTCATTGGCTGC
ATCAAAGCATTGATGAACAACTCCCAGGGGCGGGCACATGTGCTGGCACAGCCTGAGGCC
ATTAGTACCATAGCCCAGAGCCTACGCACAGAGAACAGCAAGACCAAGGTGGCTGTGCTG
GAGATCCTGGGTGCTGTGTGCCTCGTGCCTGGTGGCCACAAGAAGGTGCTGCAGGCCATG
CTGCACTACCAGGTGTATGCAGCAGAGCGAACCCGCTTCCAGACCCTGCTGAACGAGCTA
GACCGAAGTCTGGGCCGGTACCGGGATGAAGTGAATCTGAAAACAGCCATCATGTCCTTC
ATCAATGCTGTCCTCAATGCTGGAGCTGGAGAGGATAATCTGGAGTTCCGCCTACATCTA
CGGTATGAATTCCTGATGCTGGGTATACAGCCTGTGATTGACAAGCTCCGGCAACATGAA
AATGCCATCCTGGACAAACATTTAGACTTCTTCGAGATGGTGCGGAATGAGGATGACCTG
GAGCTAGCCAGGAGGTTTGACATGGTCCACATCGACACCAAGAGTGCTTCCCAGATGTTT
GAGTTGATCCACAAGAAGCTGAAGTACACGGAGGCCTACCCCTGCCTGCTCTCTGTGCTG
CACCACTGCCTGCAGATGCCCTACAAACGGAACGGTGGCTACTTCCAGCAGTGGCAGCTC
CTGGACCGCATCCTCCAGCAGATTGTCCTCCAGGATGAGCGGGGTGTGGACCCTGACCTG
GCTCCCTTGGAGAACTTCAATGTCAAGAACATCGTCAACATGCTCATCAACGAGAATGAA
GTGAAACAGTGGCGAGACCAGGCAGAGAAGTTCCGGAAAGAACACATGGAGCTTGTGAGC
CGTCTGGAGAGGAAGGAGCGGGAATGCGAGACAAAGACATTGGAGAAGGAAGAGATGATG
CGGACGCTGAACAAAATGAAGGACAAGCTGGCCCGGGAGTCCCAGGAGCTGCGCCAGGCT
CGGGGACAAGTGGCAGAGCTGGTAGCCCAGCTCAGTGAACTCTCAACAGGCCCTGTATCT
TCCCCACCACCCCCTGGGGGCCCACTCACCTTGTCTTCCTCAATGACAACCAATGACCTG
CCTCCACCCCCTCCTCCTCTGCCCTTTGCCTGTTGTCCCCCTCCCCCACCACCACCCCTT
CCTCCCGGGGGACCCCCGACTCCCCCAGGTGCCCCACCTTGCCTCGGCATGGGCCTGCCC

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CTCCCTCAGGACCCCTACCCCAGCAGTGACGTCCCACTCAGGAAAAAGCGTGTCCCCCAG
CCTTCTCACCCACTGAAGTCCTTCAACTGGGTGAAGCTGAATGAGGAGCGTGTCCCTGGC
ACCGTATGGAATGAGATTGATGACATGCAGGTATTTCGGATCCTGGACCTAGAGGATTTT
GAAAAGATGTTTTCAGCCTACCAGAGGCACCAGAAAGAGCTGGGCTCCACTGAAGACATC
TACCTGGCTTCCCGCAAGGTCAAAGAGCTGTCGGTCATTGATGGCCGGAGGGCCCAAAAC
TGCATCATCCTTCTTTCCAAGTTGAAGCTTTCTAACGAGGAGATCCGGCAGGCCATCTTG
AAGATGGATGAGCAGGAGGACCTTGCTAAGGACATGCTGGAGCAGCTCCTCAAGTTCATC
CCAGAGAAGAGTGACATTGACCTCCTGGAGGAGCACAAGCATGAAATTGAGCGGATGGCC
CGTGCTGACCGCTTCCTCTATGAAATGAGCAGGATTGACCACTACCAGCAGCGACTGCAA
GCCCTCTTCTTCAAGAAGAAATTCCAGGAGCGGCTGGCTGAGGCAAAGCCCAAAGTGGAA
GCCATCCTGTTGGCCTCCCGGGAGCTGGTCCGCAGCAAGCGTCTTAGACAGATGCTAGAG
GTCATCCTAGCCATAGGCAACTTCATGAACAAAGGGCAGCGTGGGGGCGCCTACGGGTTC
CGGGTGGCCAGCCTCAACAAGATCGCTGACACCAAGTCCAGCATCGACAGAAACATCTCT
CTGCTCCATTACCTGATCATGATCCTGGAGAAGCATTTTCCTGATATTCTAAACATGCCT
TCAGAGCTGCAACATCTTCCAGAAGCTGCCAAAGTCAACCTAGCAGAACTGGAGAAGGAG
GTGGGCAACCTCAGGAGGGGCCTGAGAGCGGTGGAGGTGCTGGAGTATCAGAGGCGCCAG
GTACGGGAGCCCAGTGACAAGTTTGTCCCTGTCATGAGCGACTTCATCACGGTGTCCAGC
TTCAGCTTCTCCGAGCTGGAGGACCAGCTAAATGAGGCCAGGGACAAGTTCGCCAAGGCC
TTGATGCACTTCGGGGAGCATGACAGCAAGATGCAGCCAGACGAATTCTTTGGCATCTTT
GATACCTTCTTGCAGGCCTTCTCAGAGGCCCGGCAGGATCTAGAGGCCATGAGGAGGAGG
AAGGAGGAGGAGGAGCGGCGGGCGCGCATGGAAGCCATGCTGAAGGAGCAGAGGGAACGT
GAGCGGTGGCAGCGGCAGCGGAAGGTCCTGGCTGCAGGCAGCTCGCTGGAGGAGGGAGGA
GAGTTCGATGACCTGGTGTCGGCCCTGCGCTCTGGGGAGGTCTTCGACAAGGACTTATGC
AAGCTCAAGCGCAGCCGCAAGCGATCAGGGAGCCAGGCCCTGGAAGTTACCCGGGAGCGG
GCAATAAACCGGCTAAATTAT

Restriction Sites: Please inquire

ACCN: NM_015345

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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).

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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_015345.2, NP_056160.2

RefSeq Size: 6215 bp

RefSeq ORF: 3204 bp

Locus ID: 23500

UniProt ID: Q86T65

Cytogenetics: 6p21.2

Protein Pathways: Wnt signaling pathway

Gene Summary: Key regulator of the Wnt signaling pathway, which is required for various processes during development, such as dorsal patterning, determination of left/right symmetry or myelination in the central nervous system. Acts downstream of Wnt ligands and upstream of beta-catenin (CTNNB1). Required for canonical Wnt signaling pathway during patterning in the dorsal spinal cord by promoting the aggregation of Disheveled (Dvl) complexes, thereby clustering and formation of Wnt receptor signalosomes and potentiating Wnt activity. During dorsal patterning of the spinal cord, inhibits oligodendrocytes differentiation via interaction with PIP5K1A. Also regulates non-canonical Wnt signaling pathway. Acts downstream of PITX2 in the developing gut and is required for left/right asymmetry within dorsal mesentery: affects mesenchymal condensation by lengthening cadherin-based junctions through WNT5A and non-canonical Wnt signaling, inducing polarized condensation in the left dorsal mesentery necessary to initiate gut rotation. Together with DAAM1, required for myocardial maturation and sarcomere assembly.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (2) differs in the 5' UTR and uses an alternate in-frame splice site at the 5' end of a coding exon compared to isoform 1. The resulting isoform (2) has the same N- and C-termini but is 1 aa shorter compared to isoform 1.

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