

Product datasheet for **SC331422**

DAAM2 (NM_001201427) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DAAM2 (NM_001201427) Human Untagged Clone
Tag:	Tag Free
Symbol:	DAAM2
Synonyms:	dj90A20A.1
Vector:	pCMV6-Entry (PS100001)



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Fully Sequenced ORF: >SC331422 representing NM_001201427.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

ATGGCCCCCGCAAGAGGAGCCACCATGGCCTGGGCTTCTGTGCTGCTTCGGGGCAGTGACATCCCC
 GAAATCAACCTCCGGGACAACCACCTCTGCAGTTCATGGAGTTCAGCCCATCCCGAACGCAGAG
 GAGCTCAACATCCGCTTTGCAGAGCTGGTGGATGAATTGGATCTCACTGACAAAAACCGAGAGGCTATG
 TTTGCACCTGCCCCCTGAGAAGAAATGGCAGATCTACTGCAGCAAGAAGAAGGAGCAGGAGGCCCAAC
 AAGCTGGCAACCAGCTGGCCTGACTATTACATCGACCGCATCAATTCCATGGCTGCGATGCAGAGTCTG
 TACGCGTTTGATGAGGAGGAGACGGAGATGAGGAACCAAGTCGTGGAAGACCTGAAGACAGCCCTCCGG
 ACACAGCCTATGAGGTTTGTGACCCGCTTCATTGAGCTGGAGGGCTTGACCTGTCTGCTAAATTTCTC
 CGGAGCATGGACCAGCCACCTGTGAGAGCCGCATCCACACCTCACTCATTGGCTGCATCAAAGCATTG
 ATGAACAACCTCCAGGGGCGGGCACATGTGCTGGCACAGCCTGAGGCCATTAGTACCATAGCCAGAGC
 CTACGCACAGAGAACAGCAAGACCAAGGTGGCTGTGCTGGAGATCCTGGGTGCTGTGTGCCTCGTGCCT
 GGTGGCCACAAGAAGGTGCTGCAGGCCATGCTGCACTACCAGGTGATGCAGCAGAGCGAACCCGCTTC
 CAGACCCTGCTGAACGAGCTAGACCGAAGTCTGGGCCGTAACCGGATGAAGTGAATCTGAAAACAGCC
 ATCATGTCTTCAATGCTGTCTCAATGCTGGAGCTGGAGAGGATAATCTGGAGTTCGCGCTACAT
 CTACGGTATGAATTCCTGATGCTGGGTATACAGCCTGTGATTGACAAGCTCCGGCAACATGAAAATGCC
 ATCCTGGACAAACATTTAGACTTCTTCGAGATGGTGCAGGATGAGGATGACCTGGAGCTAGCCAGGAGG
 TTTGACATGGTCCACATCGACACCAAGAGTGTCCAGATGTTTGAGTTGATCCACAAGAAGCTGAAG
 TACACGGAGGCCACCCCTGCCTGCTCTGTGCTGCACCACTGCCTGCAGATGCCCTACAAACGGAAC
 GGTGGCTACTCCAGCAGTGGCAGCTCCTGGACCGCATCCTCCAGCAGATTGCTCCAGGATGAGCGG
 GGTGTGGACCTGACCTGGTCCCTTGGAGAATTCAATGTCAAGAACATCGTCAACATGCTCATCAAC
 GAGAATGAAGTGAACAGTGGCAGACAGCAGGAGAGTTCGGAAAGAACAACATGGAGTGTGAGC
 CGTCTGGAGAGGAAGGAGCGGGAATGCGAGACAAGACATTGGAGAAGGAAGAGATGATGCGGACGCTG
 AACAAAATGAAGGACAAGCTGGCCCGGAGTCCCAGGAGCTGCGCCAGGCTCGGGGACAAGTGGCAGAG
 CTGGTAGCCAGCTCAGTGAACCTCAACAGGCCCTGTATCTTCCCACCACCCCTGGGGGCCACTC
 ACCTTGTCTTCTCAATGACAACCAATGACCTGCCTCCACCCCTCCTCTGCTTTCCTGCTTGTGT
 CCCCCTCCCCACCACCACCCCTTCTCCCGGGGACCCCGACTCCCCAGGTGCCACCTTGCTC
 GGCATGGGCTGCCCTCCCTCAGGACCCCTACCCAGCAGTGCCTCCACTCAGGAAAAAGCGTGC
 CCCCAGCCTTCTACCCACTGAAGTCTTCAACTGGGTGAAGCTGAATGAGGAGCGTGCCTGGCACC
 GTATGGAATGAGATTGATGACATGCAGGATTTTCGGATCTGGACCTAGAGGATTTTGAAAAGATGTTT
 TCAGCCTACCAGAGGCACAGAAAGAGCTGGGCTCCACTGAAGACATCTACCTGGCTCCCGCAAGGTC
 AAAGAGCTGTCGGTCATTGATGGCCGGAGGGCCAAAACCTGCATCATCTTCTTTCCAAGTTGAAGCTT
 TCTAACGAGGAGATCCGGCAGGCCATCTTGAAGATGGATGAGCAGGAGGACCTTGCTAAGGACATGCTG
 GAGCAGCTCCTCAAGTTCATCCCAGAGAAGAGTGCATTGACCTCCTGGAGGAGCACAAGCATGAAATT
 GAGCGGATGGCCCGTGTGACCGCTTCTCTATGAAATGAGCAGGATTGACCACTACCAGCAGCGACTG
 CAAGCCCTCTTCTCAAGAAGAAATCCAGGAGCGGCTGGCTGAGGCAAAGCCAAAGTGGAAAGCCATC
 CTGTTGGCCTCCCGGAGCTGGTCCGACGAAGCGTCTTAGACAGATGCTAGAGGTATCCTAGCCATA
 GGCAACTTCAATGAACAAGGGCAGCGTGGGGCGCCTACGGGTTCCGGGTGGCCAGCCTCAACAAGATC
 GCTGACACCAAGTCCAGCATCGACAGAAAACATCTCTGCTCCATTACCTGATCATGATCTGGAGAAG
 CATTTTCTGATATTCTAAACATGCCTTCAAGAGTGAACATCTTCCAGAAGCTGCCAAAGTCAACCTA
 GCAGAACTGGAGAAGGAGGTGGGCAACCTCAGGAGGGCCTGAGAGCGGTGGAGTGGAGCTGGAGTAT
 CAGAGGCGCCAGGTACGGGAGCCAGTGACAAGTTTGTCCCTGTCATGAGCGACTTCATCACGGTGTCC
 AGCTTCAGCTTCTCCGAGCTGGAGGACCAGCTAAATGAGGCCAGGGACAAGTTCGCCAAGGCCTTGATG
 CACTTCGGGGAGCATGACAGCAAGATGCAGCCAGCAAGTCTTTGGCATCTTTGATACCTTCTTGACG
 GCCTTCTCAGAGGCCCGCAGGATCTAGAGGCCATGAGGAGGAGGAAGGAGGAGGAGGAGCGCGGGCCG
 CGCATGGAAGCCATGCTGAAGGAGCAGAGGGAACGTGAGCGGTGGCAGCGCAGCGGAAGTCTGGCT
 GCAGGCAGCTCGCTGGAGGAGGAGGAGAGTTCGATGACCTGGTGTGCGCCCTGCCTCTGGGGAGGTC
 TTCGACAAGGACTTATGCAAGCTCAAGCGCAGCCGAAGCGATCAGGAGGCCAGGCCCTGGAAGTTACC
 CGGGAGCGGGCAATAAACCGGCTAAATTATGA

Restriction Sites:	Sgfl-RsrII
ACCN:	NM_001201427
Insert Size:	3207 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:	<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_001201427.1</u>
RefSeq Size:	6191 bp
RefSeq ORF:	3207 bp
Locus ID:	23500
UniProt ID:	<u>Q86T65</u>
Cytogenetics:	6p21.2
Protein Pathways:	Wnt signaling pathway
MW:	123.5 kDa

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 (1) 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 variant (1) encodes the longer isoform.