

Product datasheet for RC235150

DAAM2 (NM_001201427) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DAAM2 (NM_001201427) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DAAM2
Synonyms:	dj90A20A.1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC235150 representing NM_001201427 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGC**C

ATGGCCCCCGCAAGAGGAGCCACCATGGCCTGGGCTTCTGTGCTGCTTCGGGGCAGTGACATCCCCG
AAATCAACCTCCGGGACAACCACCTCTGCAGTTCATGGAGTTCTCCAGCCCCATCCCGAACGCAGAGGA
GCTCAACATCCGCTTTCAGAGCTGGTGGATGAATTGGATCTCACTGACAAAAACCGAGAGGCTATGTTT
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TGGCAACCAGCTGGCCTGACTATTACATCGACCGCATCAATCCATGGCTGCGATGCAGAGTCTGTACGC
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CCTATGAGGTTTGAGCCGCTTCATTGAGCTGGAGGGCTTGACCTGTCTGTCTAAATTTCTCCGGAGCA
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TCTCAACAGGCCCTGTATCTTCCCCACCACCCCTGGGGGCCACTCACCTTGTCTTCTCAATGACAAC
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Protein Sequence:

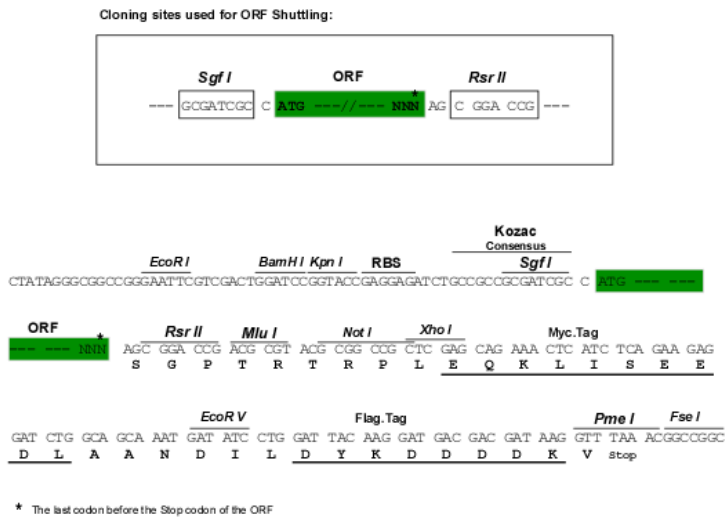
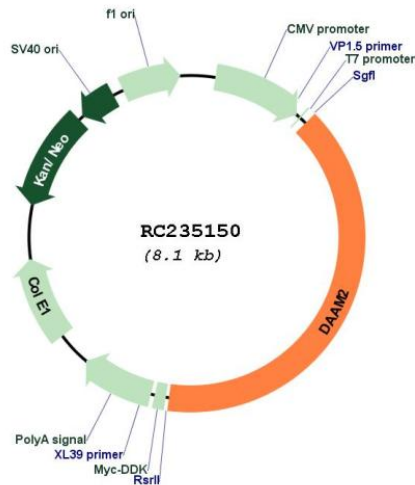
>RC235150 representing NM_001201427
 Red=Cloning site Green=Tags(s)

MAPRKRSHHGLGFLCCFGSDIPEINLRDNLHPLQFMFSSPIPNAEELNIRFAELVDELDTLTKNREAMF
 ALPPEKKWQIYCSKKKEQEDPNKLATSWPDYYIDRINSMAAMQSLYAFDEEETEMRNQVVEDLKTALRTQ
 PMRFVTRFIELEGLTCLLNFLRSMHATCESRIHTSLIGCIKALMNSQGRAHVLAQPEAISTIAQSLRT
 ENSKTKVAVLEILGAVCLVPGGHKKVLQAMLHYQVYAAERTRFQTLNLDLDRSLGRYRDEVNLTAIMSF
 INAVLNAGAGEDNLEFRLHLRYEFLMLGIQPVIDKLRQHENAIDLKHLDFEMVRNEDDLELARRFDMVH
 IDTKSASQMFELIHKKLKYTEAYPCLLSVLHHCLQMPYKRNGGYFQQWQLDRILQQIVLQDERGVDPDL
 APLENFNVKNIINMLINENEVKQWRDQAEKFRKEHMELVSRLERKERECETKTLEKEEMMRTLKMKDKL
 ARESQELRQARGQVAELVAQLSELSTGPPVSSPPPPGGPLTSSSMTTNDLPPPPPLPFACPPPPPPPL
 PPGGPTPPGAPPCLGMGLPLPQDPYSSDVPLRKKRVQPSHPLKSFNWVWKLNEERVPGTVWNEIDDMQ
 VFRIILDLEDFEKMFSAYQRHQKELGSTEDIYLSRKYKELSVIDGRRQNCIILLSKLKLNEEIRQAIL
 KMDEQEDLAKDMLQQLKFIPEKSDIDLLEEKHEIERMARADRFLYEMSRIDHYQQLQALFFKKKFQE
 RLAEAKPKVEAILLASRELVRKRLRQMLEVILAIIGNFMNKGQRGGAYGFRVASLNKIADTKSSIDRNIS
 LLHYLIMILEKHFPDILNMPSELQHLPEAAKVNLAELEKEVGNLRRGLRAVEVELEYQRRQVREPSDKFV
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 RKEEEERRARMEAMLKEQREWERWRQRKVLAAAGSSLEEGGEFDDLVSALRSGEVFDKDLCKLKRSRKRS
 GSQALEVTRERAINRLNY

SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-RsrII

Cloning Scheme:

Plasmid Map:


ACCN: NM_001201427

ORF Size: 3204 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_001201427.2
RefSeq Size:	6191 bp
RefSeq ORF:	3207 bp
Locus ID:	23500
UniProt ID:	Q86T65
Cytogenetics:	6p21.2
Protein Pathways:	Wnt signaling pathway
MW:	123.9 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]