

## Product datasheet for **MG211599**

### Daam1 (NM\_026102) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Daam1 (NM_026102) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Daam1
Synonyms:	1700066F09Rik; 2310028E21Rik; AI503486; E130308H01; mKIAA0666
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG211599 representing NM_026102 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCCCACGGAAGAGAGGGCGGCCGGGGATTTCATTTATCTTTTGTGTTTCCGAAACAATGACCATC  
CAGAAATCACATATCGGCTTAGGAATGATAGCACTTTGCACTTCAGACAATGGAGCCGGCGCTGCCCAT  
GCCCCCTGTGGAGGAGCTCGATGTCATGTTTCAGTGAACCTGTGGATGAACCTGACCTCACAGACAAACAC  
AGGGAAGCCATGTTTGCACCTCCAGCAGAGAAAAAGTGGCAGATATACTGTAGCAAGAAAAAGACCAGG  
AAGAAAAACAAGGGAGCAACCAGTTGGCCCGAGTTCTACATTGATCAGCTCAATTCATGGCTGCTAGGAA  
ATCTCTGCTGGCTTTAGAGAAGGAAGAAGAGGAGGAGGAGTAAACCATCGAGAGTCTGAAGACAGCA  
CTGAGAACCAAGCCCATGAGGTTTGAACCAGATTCATCGACTTGGATGGCCTGTCATGTATTCTCAACT  
TTCTGAAGACCATGGACTATGAGACCTCTGAGTCTCGGATACACACCTCCCTCATTGGCTGTATAAAGGC  
ACTAATGAACAACCTCAAGGCCGGGCCATGTCCTGGCTCATTCTGAGAGTATCAATGTAATTGCTCAG  
AGTCTGAGCACAGAGAACATTAACAAGGTGGCCGTGCTGAAATCCTGGGCGCTGTGTGCTGGTTC  
CTGGGGCCACAAGAAAGTTCTGCAAGCTATGCTGCACTACCAGAAGTATGCCAGCGAGAGAACCCGCTT  
CCAGACGTTAATTAATGACTTGGATAAAAAGCACTGGGCGTTATCGGGATGAAGTAAGTCTCAAGACGGCC  
ATCATGTCTTTCATCAATGCAGTGTGAGCCAGGAGCCGGAGTGGAGAGTTTGGACTTCAGGCTCCAT  
TTGCTATGAATTTCTGATGTTAGGAATCAACCTGTTATAGATAAATTAAGGGAACATGAAAATTC AAC  
ACTAGACAGGCATTTAGACTTTTTTGAATGCTCCGAAATGAAGATGAACTAGAATTTGCCAAAAGATT  
GAACTGGTTCACATAGACACAAAAGCGCCACTCAGATGTTTGGCTGACCAGGAGGAGGCTAACCCACA  
GCGAAGCCTACCCCACTTCATGTCCATTCTGCACCATGCTCCAGATGCCTTACAAGAGGAGTGGTAA  
CACAGTTCAGTACTGGCTGCTGTAGACAGAATCATAACAGCAGATAGTTATCCAGAATGACAAAGGGCAG  
GATCCCGACTCCACACCTCTGAAAACCTTAATATCAAGAACGTCGTAAGAATGTTGGTTAATGAAAATG  
AAGTTAAGCAATGAAAAGAGCAGGCAGAGAAGATGAGGAAAGAGCACAATGAGCTACAACAGAAGCTGGA  
GAAGAAAGAGAGAGAATGTGATGCTAAGACCCAAGAGAAGGAAGAATGATGCAGACCTTAAACAAGATG



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AAAGAGAAGCTGGAAAAGGAGACAACCTGAGCACAAGCAAGTTAAGCAGCAGGTGGCAGACCTCACGGCGC  
 AGCTCCACGAGCTGAACAGGAGGGCCGTCTGTGCAGCAGTCCCAGGAGGACCCTCACCCGGAGCCCTTG  
 AGGACCCCTTCTCCTCTGGGTTGGGGTCTCTTCTCCCTCCCCACCACCCCACTCCTTTTCAGGTGGA  
 GCACCTTCTCCTCCACCACCTCCCTCCCTCTGGGGTCTCTCTCTCCCCAGGGCTCTCTCCTTAG  
 GAGGAGTTCTGCCACCTCCTGGTGTCCAGTGAGTCTAACACTCAAGAAGAAGAATATCCCCAGCCAC  
 CAATGCCCTGAAATCCTTCAACTGGTCCAAGTTGCCTGAGAACAATTTGGATGGAACAGTATGGACTGAA  
 ATTGATGATACCAAAGTCTTCAAAATTTAGACCTTGAAGACTAGAAAAGAAGCTTCTCTGCCTACAAA  
 GACAGCAGGAGTTCTTTGTGAACAACCTCAAGCAGAAAAGAAGCAGATGCCATTGATGACACACTGAGTTC  
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 AAGATAGCGGATACCAAATCCAGTATTGACAAGAACAATTACTCTTTTGCCTATCTAATAACTATTGTGG  
 AGAATAAGTACCCCAAAGTCTCAACCTAAGCGAAGAGTTGCGGGATATTCTCAAGCAGCGAAAAGTAAA  
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 TATCAGAAGTCTCAGCCCCACAGCCTGGAGACAAGTTCGTGTCTGTTGTGAGCCAGTTCATCACCTGG  
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 GCACCTTTGGGGAAGAGGCTGGCAAGATCCAGCCAGATGAGTTCCTCGGGATCTTTGATCAGTTTCTTCAG  
 GCCGTGGCCGAAGCGAAACAGGAAAATGAGAACATGAGAAAAGGAAGGAGGAGGAGGAAACGGCGGGCTC  
 GCCTGGAAGCTCAGCTCAAAGAGCAGCGGAGGAGGAGCGGAAGGTGAGGAAGGCCAAGGAGCAGCTGA  
 AGAGAGTGGAGAGTTTGACGACCTGGTCTCGGCGCTGCGCTCAGGAGAGGTGTTTCGACAAAAGACCTTCA  
 AAACCTCAAACGGAACCGGAAACGCATTTCCAACCAGGTGACGGACAGCAGCCGGGAGCGACCAATCACAA  
 AACTTAATTTT

ACGCGTACGCGGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>MG211599 representing NM\_026102  
 Red=Cloning site Green=Tags(s)

MAPRKRGGRGISFIFCCFRNDHPEITYRLRNDNSNFALQTMPEALPMPVPEELDMFSELVDELDTDKH  
 REAMFALPAEKKWQIYCSKKKQDEENKATSWPEFYIDQLNSMAARKSLLEKEEEEEERSKTIESLKTA  
 LRTKPMRFVTRFIDLGLSCILNFKTMDYETSESRIHTSLIGCIKALMNSQGRAHVLAHSESINVIAQ  
 SLSTENIKTKVAVLEILGAVCLVPGGHKKVLQAMLHYQKYASERTRFQTLINDLDKSTGRYRDEVSLKTA  
 IMSFINAVLSQGAGVESLDFRLHLRYEFLMLGIQPVIDKLREHENSTLDRHLDFFEMLRNEDELEFAKRF  
 ELVHIDTKSATQMFELTRRRLTHSEAYPHFMSILHHCLQMPYKRSNGNTVQYWLLLDRIIQQIVIQNDKGQ  
 DPDSTPLENFNIKNVVRLVNENEVKQWKEQAEKMRKEHNELQQKLEKKERECDAKTQEKEEMQTLNKM  
 KEKLEKETTEHKQVQVADLTAQLHELNRRAVCAAVPGGSPGAPGGFPSSGLGSLPPPPPPPLSGG  
 ALPPPPPLPPGGPPPPPPPLGGVLPVPPGAPVSLTLKKNIPQPTNALKSFNWSKLPENKLDGTVWTE  
 IDDTKVFKILDLELERTFSAYQRQEFFVNNKQKEADAIDDTLSSKLVKELSVIDGRRQNCNILLS  
 RLKLSNDEIKRAILTMDEQEDLPKDMLEQLLKFVPEKSDIDLLEEHKHELDMAKADRFLFEMSRINHYQ  
 QRLQSLYFKKKFAERVAEVKPKVEAIRSGSEEVFRSRALKQLLEVVLAFGNMNGQQRGNAYGFKISSLN  
 KIADTKSSIDKNITLLHYLITIVENKYPKVLNLSEELRDIPQAAKVNMTELDKEISTLRSGLKAVETELE  
 YQKSQPPQPGDKFVSVVSQFITLASFSFSDVEDLLAEAKELFTKAVKHFGEAGKIQPDEFFGIFDQFLQ  
 AVAEAKQENENMRKRKEEEEERRARLEAQLKEQRERERKVRKAKESSEESGEFDDLVSALRSGEVFDKLS  
 KLKRNKRKISNQVTDSSRERPIITKLN

TRTRPLE – GFP Tag – V

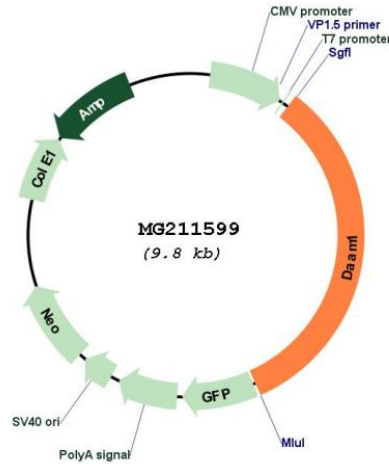
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_026102

ORF Size: 3231 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_026102.3</a></u> , <u><a href="#">NP_080378.2</a></u>
<b>RefSeq Size:</b>	6004 bp
<b>RefSeq ORF:</b>	3234 bp
<b>Locus ID:</b>	208846
<b>UniProt ID:</b>	<u><a href="#">Q8BPM0</a></u>
<b>Cytogenetics:</b>	12 C3
<b>Gene Summary:</b>	Binds to disheveled (Dvl) and Rho, and mediates Wnt-induced Dvl-Rho complex formation. May play a role as a scaffolding protein to recruit Rho-GDP and Rho-GEF, thereby enhancing Rho-GTP formation. Can direct nucleation and elongation of new actin filaments (By similarity). Involved in building functional cilia. Involved in the organization of the subapical actin network in multiciliated epithelial cells (By similarity). Together with DAAM2, required for myocardial maturation and sarcomere assembly (PubMed:26526197).[UniProtKB/Swiss-Prot Function]