

Product datasheet for **RR205571**

Nodal (NM_001106394) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nodal (NM_001106394) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Nodal
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR205571 representing NM_001106394
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTGTCCACTGCCTTCCCGTTCTTCTCTCCAACTGCTGGACCCTACTCCACCCGCGCTCGCGA
CCGCGGCCGCTTTGCCTCTGTGGACACGGGGGACCCCTCGTCACCGTCCCCTCTGGCGTACATGTTGAG
CCTTACCGAGACCCTCTGCCTCGGGCGGACATCATCCGACGCCCTCCAGGCGCAAGATGTGGATGTGACT
GGCAGAACTGGACCTTACGTTTGACTTCTCCTTTTTGAGCCAAGAAGAGGATCTGGTATGGGCGGAGC
TCCGGTTGCAGCTGCTCAGCCCTATGGACAGCCCCACCAAGGGTCCACTCACCATTGACATTTCCACCA
GGCCAAGCCGGATCCAGAGCAGGACCCGGCTGACTGCCTGGAGCGTGTGGATGGAGAGGATCACCGTCC
ACTCCTTCTCAGGTCACGTTTGCCTCAGACAGCACAGTCTAGAGGTGACCAAGCCACTCTCCAAGTGGC
TAAAGGACCCAGGGCACTGGAGAAGCAGGTGTCCAGTCAAGCAGGAAAGTGTGGCATCAGTCCCACAC
CCAGCCTGTCCCTGTACCAGTACCAGTGTGCTCATGCTTTACTCCAACCGGCCCTCAGGAGCAGAGGCAG
CTGGGGGGCGCCACTTTGCTCTGGGAAGCGGAGAGCTCCTGGCGGGCCAGGAGGACAGCTGTCCGTAG
AGAGGAGTGGATGGGCGAGAAGGCAACGCCCATCATTTGCCAGACAGAAGCCAATATGTAGGAGGGT
CAAGTTCCAGGTGGACTTCAACCTGATTGGCTGGGGCTCCTGGATCATCTACCCGAAGCAGTACAATGCC
TATCGCTGTGAGGGCGAGTGTCTAACCCTGTGGGGGAGGAGTTTACCCTACCAACCACGCCTATATCC
AGAGCCTGCTGAAACGTTACCAGCCCCACGGGTTCTTCTACATGCTGTGCTCCCGTGAAGACCAAGCC
ACTGAGCATGCTTTATGTGGACAATGGCAGGGTCTCCTGGAACACCACAAGGACATGATTGTGGAGGAG
TGTGGGTGCCTC

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR205571 representing NM_001106394
 Red=Cloning site Green=Tags(s)

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MSVHCLPVL LLQTCWTL LHPRVATAAALPLWTRGQPSSPSPLAYMLSLYRDPLPRADIIRSLQAQDVDT
GQNWTFTFDF SFLSQEEDLVWAE LRLQLLSPMDSPTKGPLTIDIFHQAKPDPEQDPADCLERVWMERITV
TPSQVTFASDSTVLEVT KPLSKWLKDPRALEKQVSSQAGK CWHQSHTQPVPVTSTSVLMLYSNRPQEQRQ
LGGATLLWEAESSWRAQEGQLSVERSGWGRRRRHHL PDRSQLCRRVKFQVDFNLIGWGSWIIYPKQYNA
YRCEGECFNPVGE EFHPTNHAYIQSLLKRYQPHRVPSTCCAPVKTKPLSMLYVDNGRVLLEHHKDMIVEE
CGCL
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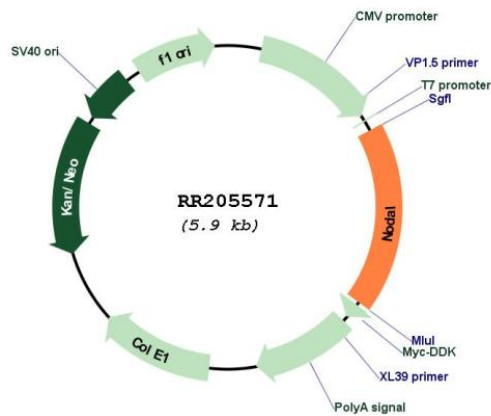
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001106394

ORF Size:	1062 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
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_001106394.1 , NP_001099864.1
RefSeq Size:	2034 bp
RefSeq ORF:	1065 bp
Locus ID:	294503
Cytogenetics:	20q11
MW:	40.5 kDa