

Product datasheet for **RR201456**

Dnase2 (NM_138539) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dnase2 (NM_138539) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dnase2
Synonyms:	Dnase2a
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR201456 representing NM_138539 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGC**C

ATGGCAGCACCGAGCTCGCTGCTGTTGGCTGCGCTGCTGTGGGTTCTGCCGAAGCCCTGAGCTGCTATG
GGGACTCGGGCGGCCTGTGGATTGGTTCTGTTGATACAAGCTGCCGGCTAACAGCGGGTCTGGGGATAA
GCCATGGAAGGGTCTGATGTATAAATACATGGACCAGAAGCTCCGAGGGTTGGCAAGACGGTGTAGGGCAC
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CCTTTCTACTCTACAACGACCAACCTCCAAATCCAGCTCAGCTCAGGACTCTTCCAGCCGTGGGCATAC
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CCTGCATCCTCTGGTGCATACAGCTGGCCTCCGAACGCTCGGACCTACGGCCAGACCCTACTCTGTGTGT
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CAAGCTGGAAGGTATCTTTGCTCAAAAATTACCTGACCTAGAAGAGGTGACCAAGGGCCACCATGTCCCT
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GTTCTGGCCAAATCTCCAGGCATCCTGCCTTCCAAGTCTCTGGGACCCATAAAATTCTGGATGTGACT
GAGACAGGATTCCCTGGCCCATCTGGACCGACTTCAACGCCACAGAGGATCACTCCAAATGGTGTGTGG
CCCCCGAAGGGCCCTGGGTCTGTGTGGGTGACATGAATCGGAACAAAAGAGACACACCCGGTGGGGG
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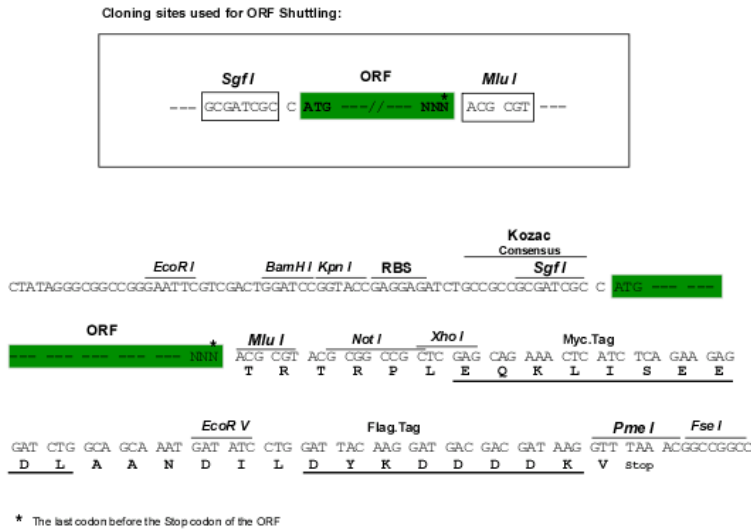
Protein Sequence: >RR201456 representing NM_138539
Red=Cloning site Green=Tags(s)

MAAPSSLLLAALLWVPAEALSCYGDSSGRPVDFVYKLPANSGSGDKPWKGLMYKYMDQNSEGWQDGVGH
 IDSKDGAVGLTLQPLYQKNSSQLAFLLYNDQPPKSSSAQDSSSRGHTKGVLLLDQEGGFVLVHVSVPFRFPS
 PASSGAYSWPPNARTYGTLLCVSLPFSQFPGIGKQLTYTYPLVYDHKLEGIFAQKLPDLEEVTKGHHVL
 REPWNSSVILTSRAGTTFAQFAKFGKFGDDL YSGWLAALGTNLQVQFWPNSPGILPSNCSGTHKILDVT
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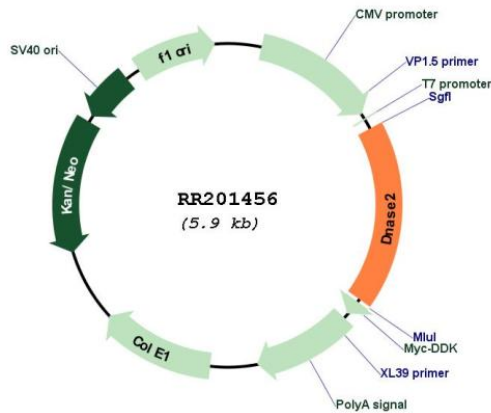
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_138539

ORF Size: 1050 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_138539.2 , NP_612548.1
RefSeq Size:	1433 bp
RefSeq ORF:	1053 bp
Locus ID:	171575
UniProt ID:	Q9QZK8
Cytogenetics:	19q11
MW:	38.2 kDa
Gene Summary:	catalyzes the hydrolysis of DNA into oligonucleotides under acidic conditions [RGD, Feb 2006]