

Product datasheet for **RR200943**

Nat10 (NM_001107756) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nat10 (NM_001107756) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nat10
Synonyms:	RGD1306717
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide
Sequence:

>RR200943 representing NM_001107756
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTTGTCCAAGCAACTGTGAAGGCTCGGCCCTCTGTCTGTGGTGTACAAGAAAGAGCTGGGATTTA
GCAGTCATCGGAAGAAGAGAATGCGGCAGCTACAGAAGAAGATAAAGAGTGGGACCTTGAACATAAAGCA
AGATGACCCCTTTGAGCTTTTTGTAGCAGCCACAAACATTCGCTACTGCTACTACAAATGAAACCCACAAG
ATTCTGGGCAACACTTTTGGCATGTGTGTCTCCAGGACTTTGAAGCATTAACTCCTAACTGTTGGCCA
GAACTGTAGAAACAGTAGAAGGTGGTGGATTGGTGGTCATCCTCTTACGGACCATGAACTCGCTTAAGCA
GCTGTACACAATGACTATGGATGTGCACCTCAGGTACAGGACCGAGGCCATCAGGACGTGGTGGGAAGG
TTTAACGAGAGGTTTATCTCTCTCTGGCATCTTGAAGAAGTGTCTGGTCATTGATGACCAACTCAATA
TCCTGCCATCTCTCCATGTGGCCAGCATTGAAGCCTTACCTCCTCAGGCCCCGATGAGAATCTCAG
TCCTGCTGCTCTGGAGCTGCAGGAGTTGAAAGAGAGCTTGACAGGACACTCAGCCCGTGGGTGTTTGGTG
GACTGCTGCAAGACCCTGGACCAGGCCAAAGCTGTCTTGAATTCATTGAGGGGATCTCGGAGAAGACCC
TAAGGAGTACTGTTGCCCTCACCGCTGCCCGAGGACGGGCAAGTCTGCGGCCCTGGGCCTGGCTATTGC
TGGGGCAGTGGCATTTCGGATATTCGAATATTTTTGTACCTCCCCAAGCCAGATAACCTCCACACCCTG
TTTGAATTTGATTTAAGGGGTTTGTGCTCTGCAGTACAGGAGCACCTGGACTACGAGATTGTACAGT
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GTACATCCATCCTGCAGATGCTGTGAACTGGGCCAGGCTGAGCTGGTTGTGATAGATGAAGCTGCCGCT
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ACGAGGGCACTGGCCGGTCACTTTCCCTCAAACATCAGCAACTCCAGCAACTCCGTCAGCAGAGTCCGACAGCCA
GGTCAGCACCACTGCTGAGAACAAGACCACGACGACAGCCAGATTGGCCCTCAGCTCGGACATTGCATGAG
GTTTTCCCTCCAAGAGTCAATCCGGTACGCCCTGGGGATGCAGTGGAGAAGTGGCTGAATGACCTGCTGT
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TGTTAACAGAGATACCCTCTTTTGTACCACAAGGCTTCTGAGGTTTTTCTGCAGAGGCTCATGGCTCTC
TATGTGGCTTCGATTACAAGAACTCTCCCAACGATCTGCAGATGCTCTCGGATGCACCTGCTCACACC
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GATGTACTACGAAGGCAGGTTCCCGTGTCTGGAGGAAAAGGCTTTGGAGACACCACAAGAAATCCACACC
GTGAGCAGTGAAGCCGTGAGCTTGTGGAAAGTATCACTCCCCGGAAGGATCTGCCTCCCTTACTCC
TCAAGTTGAATGAGAGGCCTGCAGAGCGCTAGATTATCTGGGGGTTTTCTATGGGCTGACCCCAAGGCT
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CCTGTCTCTGAACATCATTGAGAACAGGAACATAGCGAAGTCAAGCCCAAGTCCAGTCCCTAGGCCGGAGCAT
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR200943 representing NM_001107756
 Red=Cloning site Green=Tags(s)

MLSKATVKARPSVLWCYKKELGFSHRKKRMRQLQKKIKSGTLNIKQDDPFELFVAATNIRYCYNETHK
 ILGNTFGMCVLQDFEALTPNLLARTVETVEGGGLVVILLRTMNSLKQLYTMMDVHSRYRTEAHQDVVGR
 FNERFILSLASCKKCLVIDDQLNILPISSHVASIEALPPQAPDENLSPAALQLKESLQDTQPVGVLV
 DCCKTLDAQAKAVLKFIGEISEKTLRSTVALTAARGRGSAAALGLAIAGAVAFGYSNIFVTPSPDNLHTL
 FEFVFKGFDALQYQEHLDYEIVQSLNPEFNKAVIRVNVFREHRQTIQYIHPADAVKLGQAEVVIDEAAA
 IPLPLVKSLGPLYLVMASINGYEGTGRSLSLKLIQQLRQSAQSQVSTTAENKTTTTARLASARTLHE
 VSLQESIRYAPGDAVEKWLNDLLCLDCLNITRIVSGCPLPEACELYVNRDTLFCYHKASEVFLQRLMAL
 YVASHYKNSPNDLQMLSDAPAHHLFCLLPPVPPTQNALPEVLAVVQVCLEGELSRQSILNSLSRGKKASG
 DLLPWTVSEQFQDPDFGGLSGGRVVRIAVHPDYQGMGYGSRALQLLQMYEGRFPCLEEKVLETPQEIHT
 VSSEAVSLLLEEVITPRKDLPPLLLKLNERPALRDLVGSYGLTPRLLKFWKRAGFVPVYLRQTPNDLGT
 EHSICMLKTLADEDEAERGAWLAFTWDFRRRFLALLSYQFSTFSPALSLNIIQNRIAKSAPPVLGREH
 LEALFLPYDLKRLMYSRNMVDYHLIMDLIPAI SRLYFLNQLGDLAL SAAQSDEAAKEFQEKHKKDVGKL
 KMDLSQYIIRGDDEEWNEVLSKAGQNASIVSLKSDKRRKLETKQEPKQSKLKKSGNNRDKTKLKRKK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

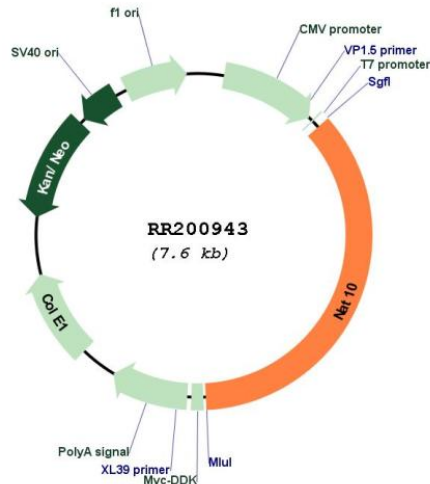
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001107756

ORF Size: 2727 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:

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_001107756.1](#), [NP_001101226.1](#)

RefSeq Size: 3478 bp

RefSeq ORF: 2730 bp

Locus ID: 311257

Cytogenetics: 3q32

MW: 102.2 kDa