

## Product datasheet for **RC226812**

### **NAT10 (NM\_001144030) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** NAT10 (NM\_001144030) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** NAT10  
**Synonyms:** ALP; Kre33; NET43  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC226812 representing NM\_001144030  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGCATCGGAAAAAGGTGGATAACCGAATCCGGATTCTCATTGAGAATGGAGTAGCTGAGCGGCAAAGAT  
CTCTCTTTGTTGTAGTTGGGATCGAGGAAAAGATCAGGTGTAATACTTCATCACATGTTATCCAAAGC  
AACTGTGAAGGCTCGGCCTTCAGTGCTGTGGTGTATAAGAAAGAGCTGGGGTTTAGCAGTCACCGGAAG  
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AACTCTTCATAGCAGCCCAAACATTCCGCTACTGCTACTACAACGAGACCCACAAGATCCTGGGCAATAC  
CTTCGGCATGTGTGTGCTGCAGGATTTTGAAGCCTTAACTCCAAACTTGCTGGCCAGGACTGTAGAAACA  
GTGGAAGGTGGTGGGCTAGTGGTCATCCTCCTACGGACCATGAACTCAAGCAATTGTACACAGTGA  
CTATGGATGTGCATTCCAGGTACAGAACTGAGGCCATCAGGATGTGGTGGGAAGATTTAATGAAAGTT  
TATTCTGTCTCTGGCCTTTGTAAGAAGTGTCTCGTCATTGATGACCAGCTCAACATCCTGCCATCTCC  
TCCCACGTTGCCACCATGGAGGCCCTGCCTCCCCAGACTCCGGATGAGAGTCTTGGTCTCTGTATCTGG  
AGCTGAGGGAGTTGAAGGAGAGCTTGCAGGACACCCAGCCTGTGGGTGTGGTGGGACTGCTGTAAAGC  
TCTAGACCAGGCCAAAGCTGTCTTGAAATTTATCGAGGGCATCTCTGAAAAGACCCTGAGGAGTACTGTT  
GCACTCACAGCTGCTCGAGGACGGGAAAAATCTGCAGCCCTGGGATTGGCGATTGCTGGGCGGTGGCAT  
TTGGGTACTCCAATATCTTTGTTACCTCCCAAGCCCTGATAACCTCCATACTCTGTTTGAATTTGTATT  
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TTTAAACAAAGCAGTGATCAGAGTGAATGTATTTGAGAACACAGGCAGACTATTCAGTATATACATCCTG  
CAGATGCTGTGAAGCTGGCCAGGCTGAACTAGTTGTGATTGATGAAGCTGCCGCATCCCCCTCCCCTT  
GGTGAAGAGCCTACTTGGCCCTACCTTGTTCATGGCATCCACCATCAATGGCTATGAGGCACTGGC  
CGGTCACTGTCCCTCAAGCTAATTCAGCAGCTCCGTCAACAGAGCGCCAGAGCCAGGTCAGCACCCTG  
CTGAGAATAAGACCACGACGACGACGATTGGCATCAGCGCGGACACTGCATGAGGTTTCCCTCCAGGA  
GTCAATCCGATACGCCCTGGGGATGCAGTGGAGAAGTGCTGAATGACTTGCTGTGCTGGATTGCCTC  
AACACTCACTCGGATAGTCTCAGGCTGCCCTTGCTGAAGCTTGTGAACTGTACTATGTTAATAGAGATA



CCCTCTTTGCTACCACAAGGCCTCTGAAGTTTTCTCCAACGGCTTATGGCCCTCTACGTGGCTTCTCA  
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 CCTCCTGTGCCCCCACCAGAATGCCCTTCCAGAAGTGTGCTGTTATCCAGGTGTGCCTTGAAGGGG  
 AGATTTCTCGCCAGTCCATCTTGAACAGTCTGTCTCGAGGCAAGAAGGCTTACAGGGGACCTGATCCATG  
 GACAGTGTGAGAACAGTCCAAGATCCAGACTTTGGTGGTCTGTCTGGTGAAGGGTCGTTCGCATTGCT  
 GTTCACCCAGATTATCAAGGGATGGGCTATGGCAGCCGTGCTCTGCAGCTGCTGCAGATGACTATGAAG  
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 AGGCCTGCCGAACGCCTGGATTACCTGGGTGTTTCTATGGCTTGACCCCAAGGCTCCTCAAGTTCTGGA  
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 CGGCTCTTCTTGGGGATTGGCCTGCAGCATAAGTCTGTGGACCAGCTGAAAAGGAGATTGAGCTGCC  
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 GAAAAGGCCATTGAGGAGCAGATGGTGGCAGCGAAGGATGTGGTTCATGGAGCCCAGATGAAGACCTCA  
 GTGACGACCTAGATGAAGCAGCAAAGGAATTTCAAGGAGAAACACAAGAAGGAAGTGGGAAGCTGAAGAG  
 CATGGACCTCTCTGAATACATAATCCGTGGGACGATGAAGAGTGAAGTGAAGTTTTGAACAAAGCTGGG  
 CCGAACGCCTCGATCATCAGCCTGAAAAGTGAAGAAAGGAAGTTAGAGGCCAAACAAGAACCCAAAC  
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATGAGTTTAA

**Protein Sequence:**

>RC226812 representing NM\_001144030  
 Red=Cloning site Green=Tags(s)

MHRKKVDNRIRIL IENGVAERQSLFVVVGDGRGKDQVVILHHMLSKATVKARPSVLWCKKELGFSHRK  
 KRMRQLQKIKNGTLNLIKQDDPFELIAATNIRYCYNETHKILGNTFGMVCVLQDFEALTPNLLARTVET  
 VEGGGLVVILLRTMNSLKQLYVTMDVHSRYRTEAHQDVVGRFNERFILSLASCKKCLVIDDQLNLPIS  
 SHVATMEALPPQTPDES LGPSDLELRELKESLQDTPVGVLDCCCKLDQAKAVLKFIEGISEKTLRSTV  
 ALTAARGRKSAAALGLAIAGAVAFGYSNIFVTSPSPDNLHTLFEFVFKGFDALQYQEHLDYEIIQSLNPE  
 FNKAVIRVNVFREHRQTIQYIHPADAVKLGQAEVVIDEAAAIPLPLVKSLLGPYLVFMASTINGYEGTG  
 RSLSLKLIQQLRQSAQSQVSTTAENKTTTTARLASARTLHEVSLQESIRYAPGDAVEKWLNDLLCLDCL  
 NITRIVSGCPLPEACELYYVNRDTLFCYHKASEVFLQRLMALYVASHYKNPNDLQMLSDAPAHHLFCLL  
 PPVPPTQNALPEVLAVIQVCLEGEISRQSI LNLSRGKKASGDLIPWTVSEQFQDPDFGGLSGGRVVRIA  
 VHPDYQGMGYSRALQLLQMYEGRFPCL EEKVLETPQEIHTVSSEAVSLLEEVI TPRKDL PPLLLKLINE  
 RPAERLDYLVGSYGLTPRLLKFWKRAGFVPVYLRQTPNDLTGEHSCIMLKTLDDEADQGGWLA AFWKD  
 FRRRFLALLSYQFSTFSPSLALNIIQNRNMGKPAQPALSREELEALFLPYDLKRLEMYSRNMVDYHLIMD  
 MIPAIRIYFLNQLGDLAL SAAQSALLLGIQLQHKSVQLEKEIELPSGQLMGLFNRIIRKVVKLFNEVQ  
 EKAIEEQMVAAKDVMEPTMKTLSDDLDEAAKEFQEKHKKEVGLKSMDSLSEYIIRGDDEEWNEVLNKA  
 PNASIIISLKSDDKRRKLEAKQEPKQSKLKNRETKNKMDMLKRRK

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

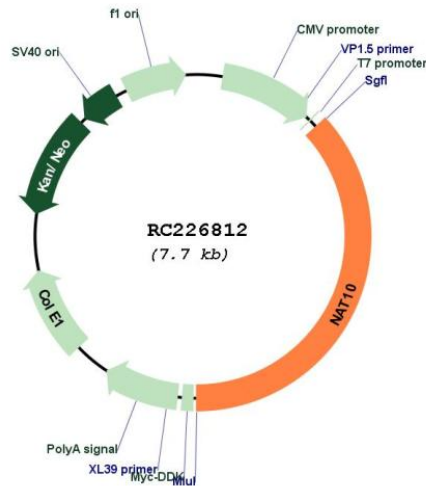
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001144030

ORF Size: 3078 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](#)

<b>OTI Annotation:</b>	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_001144030.1</a></u> , <u><a href="#">NP_001137502.1</a></u>
<b>RefSeq Size:</b>	3843 bp
<b>RefSeq ORF:</b>	2862 bp
<b>Locus ID:</b>	55226
<b>UniProt ID:</b>	<u><a href="#">Q9H0A0</a></u>
<b>Cytogenetics:</b>	11p13
<b>MW:</b>	115.7 kDa
<b>Gene Summary:</b>	The protein encoded by this gene is an RNA cytidine acetyltransferase involved in histone acetylation, tRNA acetylation, the biosynthesis of 18S rRNA, and the enhancement of nuclear architecture and chromatin organization. [provided by RefSeq, Oct 2016]