

Product datasheet for **SC307215**

NAT8L (NM_178557) Human Untagged Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | NAT8L (NM_178557) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | NAT8L |
| Synonyms: | CML3; NACED; NAT8-LIKE |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | >NCBI ORF sequence for NM_178557, the custom clone sequence may differ by one or more nucleotides |

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ATGCATTGTGGGCTCCCGACATGGTCTGCGAGACGAAGATCGTGGCCGCCGAGGACCATGAGGCGCTGC  
CGGGGGCCAAGAAGGACGCGCTGCTCGCCGCCGCCGCGCCATGTGGCCCCGCTGCCGCCGCGCCCGG  
GCCGGCCCGCGCCCCCGCGCCCCACCTGCCCGGTGGCTCAGCCTCACGGCGGGCGGGGGCGCG  
GGGCCCGGGGGCGCGCGTGTGCATCCGCGAGTTCGTCGCGCCGAGCAGGAGGGCGCGCCGCA  
TCTTCTACGACGGCATCATGGAGCGCATCCCTAACACGGCCTTCGCGGCCCTGCCGAGCACC CGCGCG  
GCAGCTGCTCTACGCCCTGCTGGCGCGCTGTGCTTCGCCGTGAGCCGCTCGCTGCTGCTGACGTGCTG  
GTGCCGGCCGCTGCTGGCCCTGCGCTACTACTACAGCCGAAGGTGATCCGCGCTACCTGGAGTGCG  
CGCTGCACACGGACATGGCGGACATCGAGCAGTACTACATGAAGCCGCCGGCTCCTGCTTCTGGGTGGC  
CGTGTGGATGGCAACGTGGTGGCATTGTGGCTGCACGGGCCACGAGGAGGACAACACGGTGGAGCTG  
CTGCGGATGTCTGTGGACTCACGTTTCCGAGGCAAGGGCATCGCCAAGGCGCTGGGCCGGAAGGTGCTGG  
AGTTCCCGTGGTGCACAATACTCCGCGGTGGTGTGGGCACGACGCGCGTCAAGGTGGCCGCCACAA  
GCTCTACGAGTCGCTGGGCTTCCAGACACATGGCGCCAGTGACCACTACGTGCTGCCGGCATGACCCTC  
TCGCTGGCTGAGCGCCTTCTTCCAGGTCCGCTACCACCGCTACCGCTGCAGTGCAGGAGGAGTGA
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| 5' Read Nucleotide Sequence: | <p>>OriGene 5' read for NM_178557 unedited</p> <pre>GGGTTCAAATTTGTATACGACTCATATAGGCGGCCGCGNATTCGCCCTTTACTACATCC GCAGGTGATCCGCGCCTACCTGGAGTGC GCGCTGCACACGGACATGGCGGACATCGAGCA GTACTACATGAAGCCGCCCGCTCTGCTTCTGGGTGGCCGTGCTGGATGGCAACGTGGT GGGCATTGTGGCTGCACGGGCCACGAGGAGGACAACACGGTGGAGCTGCTGCGGATGTC TGTGGACTCACGTTTCCGAGGCAAGGGCATCGCCAAGGCGCTGGCCGGAAGGTGCTGGA GTTCCGCCGTGGTGCACAACACTACTCCGCGGTGGTCTGGGCACGACGGCCGTC AAGGTGGC CGCCACAAGCTCTACGAGTCGCTGGGCTTCAGACACATGGGCGCCAGTGACCACTACGT GCTGCCGGGCATGACCCTCTCGCTGGCTGAGCGCCTCTTCTTCCAGGTCCGCTACCACCG CTACCGCTGCAGCTGCGCGAGGAGTGACCGCCGCTGCTCTACGCCGCCCGCCCGGCCG CCCTGTCCGCTTTGCCCGCTGCCCGCCGCCGCGCGGCTGCTTTCAGACGCTCACT TGGCGTTTGTGTTGGTTTCCCCTTTTAAGGGCAATT CAGATCTGGTACCGATATCAAG CTTGTGACTCTAGATTGCGGCCGGT CATAGCTGTTTCTGAACAGATCCCGGTGGC ATCCCTGTGACCCCTCCAGTGCCTCTCTGGCCCTGGAAGTTGCCACTCCAGTGCCCA CCAGCCTTGCTAATAAATTAAGTTGCATCATTTTGTCTGACTAGGTGTCCTTCTATAT ATTATGGGTGGAGGGGTTGATTGACCAAGGGCAAGTGGGGAGACACCT</pre> |
| 3' Read Nucleotide Sequence: | <p>>OriGene 3' read for NM_178557 unedited</p> <pre>GGGCCTTGGNATGGCAACTTCCAGNCCAGNAAAGCACTGGGNGAGGTCACAGGGATGC CACCCGGGATCTGTT CAGGAAACAGCTATGACCGCGCCGCAATCTAGAGTCGACAAGCT TGATATCGGTACCAGATCTGAATTGCGCCTTAAAAGGGAAACCAACACAAACGCCAAGT GAGCGTCTGAAAGCAGGCCGCGCCGGCGGGCAGCGGGCAAAGCGGACAGGGCGG CCGGGGGGGGCGGCGTAGAGCAGCGCGGTCACTCTCGCGCAGCTGCAGCGGTAGCGG TGGTAGCGGACCTGGAAGAAGAGCGCTCAGCCAGCGAGAGGGTATGCCCGGCAGCAGC TAGTGGTCACTGGCGCCATGTGTCTGAAGCCCAGCGACTCGTAGAGCTTGTGGGCGGCC ACCTTGACGGCCGTCGTGCCAGCACCACCGCGGAGTAGTTGTGCACCACGGCGAACTCC AGCACCTTCCGGCCAGCGCCTTGGCGATGCCCTTGCCTCGGAAACGTGAGTCCACAGAC ATCCGCAGCAGCTCCACCGTGTGTCTCTCTCGTGGGCCCGTGCAGCCACAATGCCACC ACGTTGCCATCCAGCACGGCCACCCAGAAGCAGGAGCCGGCGGCTT CATGTAGTACTGC TCGATGTCCGCCATGTCGGTGTGCAGCGCGCACTCCAGGTAGGCGCGGATCACCTTGGG CTGTAGTAAAGGGCAATTCCGCGCCGCCCTATAGT GAGTCGATTACAAAATTTGACG GTTCACTAAACGAGCTCTGCTTATATAGACCTCCACCGTACACGCCTACCGCCATTTC CGTCAACGGGGCGGGTTATTACGACATTTGGGAAAGTCCGTTGATTT</pre> |
| Restriction Sites: | Please inquire |
| ACCN: | NM_178557 |
| Insert Size: | 700 bp |
| OTI Disclaimer: | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP). |
| OTI Annotation: | This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA. |
| 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_178557.2](#), [NP_848652.1](#)

RefSeq Size: 2342 bp

RefSeq ORF: 405 bp

Locus ID: 339983

UniProt ID: [Q8N9F0](#)

Cytogenetics: 4p16.3

Gene Summary: This gene encodes a single-pass membrane protein, which contains a conserved sequence of the GCN5 or NAT superfamily of N-acetyltransferases and is a member of the N-acetyltransferase (NAT) superfamily. This protein is a neuron-specific protein and is the N-acetylaspertate (NAA) biosynthetic enzyme, catalyzing the NAA synthesis from L-aspartate and acetyl-CoA. NAA is a major storage and transport form of acetyl coenzyme A specific to the nervous system. The gene mutation results in primary NAA deficiency (hypoacetylaspartia). [provided by RefSeq, Dec 2010]