

Product datasheet for **MC223761**

Nrip1 (NM_173440) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nrip1 (NM_173440) Mouse Untagged Clone
Tag: Tag Free
Symbol: Nrip1
Synonyms: 6030458L20Rik; 8430438I05Rik; 9630050P12; AA959574; AW456757; RIP140
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC223761 representing NM_173440
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGACTCATGGAGAAGAGCTTGGCTCTGATGTGCATCAGGATTCTATTGTCTTAACCTACCTCGAAGGGT
TACTAATGCATCAGGCAGCAGGGGATCAGGCACTGCCATTAACAAAAAGTCTGCTGGCCACAAAGAGGA
AGACCAGAACTTTAACCTCTCGGCAGTGCCTTCCCTCTGTCAAAGCAATGGTCCCACGTGCAGTACC
CAGACGTACCAGGGATCTGGCATGCTGCACCTCAAAAAAGCCAGACTGCTGCAGTCTTCCGAGGACTGGA
ACGCGGCAAAAGCGGAAGAGGCTGTCTGATTCCATCGTGAATTTAAACGTAAGAAGGAAGCGTTGCTGGC
TGGCATGGTTGACAGTGTGCCTAAAGGCAAAACAGGATAGCACATTGCTGGCCTCTTTGCTTCAGTCATTC
AGCTCTAGGCTGCAGACTGTTGCTCTGTACAGCAGATTAGACAGAGCCTCAAGGAGCAGGGATATGCC
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TCTGTTGAAGAAAAGTAAAACCAAGGATCAAAAGTCAGGTCCCACCCTCCCTGACGTGACTCCAAACCTT
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CCTTGTCATGTGCTGCAAGATTACAGGCTGTTGCCAGCATGGTGGAGAAAAGGGCGAGTCCCCTGCCTC
CCCAAAGCCTAGTGTGCTGCAGCCAGTTGGCGCTGCTCCTGTCCAGCAGGCCACCTGCAGCAGTAC
TCTCGGGAACATGCTCTAAAAACGCAGAACGCACATCAGGTGGCAAGCGAAAGACTTGCAGCCATGGCCA
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CCAATGGGTGTTGCTCCCTTCCCTCCCAAAAAACACGAGCTATAAGAAGTCACTGGAAGAAAACAACCTAA
AGCAGGCTGCTAATAACAGTCTGCTTTTGCATCTCCTCAAAGCCAGACCATACCCACGCCGATGAACGG
GCACAGCCAGAACGAGAGAGCGAGCAGTTTTGAGAGTAGCACGCCACCACGATTGATGAGTACTCCGAT
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TGCTTTGCAAACACCGGATCGAAAAGCCGGAAGCTGAGCGGCCCGTTTCGCTGGAGAACCTAACCCAGTC
CTTGTTAAACACGTGGGATCCCAAGATCCCGCGCTTGACATCAAAGAAGATCAAGATACCTCAACAAAT
TCCAAGCTGAATTCACACCAGAAAGTCACTCTTCTCAGTTGCTGCTCGGCCATAAAAGTGAAGAAACTG



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TTGAAAGGAACGCCAGCCCTCAGGACATCCATAGTGATGGGACTAAGTTCAGTCCTCAGAATTACACAAG
GACTTCTGTTCATCGAAAGCCCCAGTACCAACAGGACTACCCAGTGAGCACTCCACCCTGTATACAGCC
AGCCAAGCAGAGTCTCCCATCAATCTTTCCAGCACTCTCTGGTCATCAAGTGGAAATCCCCGCCGTATG
CCTGCAGTACTCCCGCTTCCAAGCTCACGAACACCGCGCTAGCCACCTGATGGACCTCACGAAAGGCAA
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CTGTTACAAAATTTGGCTCAGTGCAGTTCAGTCTTCCGGGCCAGGGGAAGAGCAGAGACCCTGCAAAAC
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CGGGCTGTTGAGTCGCTTGTGAGACAGAATCAAGAGAGTACCAGGAGATGAGCAGGACAAGAGTAC
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CCCGGAAGTACTCTACGGGTGCTTGCATCAGGAAGAGCTGAAGTTAGCAGGAATGAGCTCGATTAT
AAATACCTGTGGGCATAGTTCAGCCAGCGATGGTGACCACAGGAGTTGGGCCAGAGAGAGCAAAAGCT
TCAATGTTCTCAAGCAGCTGCTGCTCTCCGAGAACTGTGTGCGAGATCTGTCCCCACACAGGAGTGACTC
TGTCCCCGACACGAAAAAGAAAGGACACAAAAACAACGCGCCCGGAGCAAAACCTGAATTCGGCATTCT
TCTTTAAATGGACTGATGATAGTTCGCCGAGCCTGGCAGTTGTGTGACGGATCATAGGACATTTTCAT
ACCCGGGAATGGTAAAGACCCCTCTGAGCCCTCCTTTCCAGAGCACTGGGCTGTGTGGGTCCAGACC
AGAACCTGGGCTTTTGAATGGATGTTCCGTGCCGGTGAGAAGGGACCCATTAAGTGGTTCATCGCAGAT
ATGGATAAGAATGAATACGAAAAAGACTCTCAAGACTGACCAAACTAATCCGATCCTCTATTACATGC
TCCAGAAGGGAGGGGCAATTCTGTTACCACACAGAAACCCAGGACAAAGACATCTGGAGGAGCCTGC
GTCAGCCGAGAGTCTCTCACAGTTACAGTCAAAGAAGAGCTACTCCCGCTGCAGAAAATAAGCTTCT
TTCTTTAATCTAAGAAGCCCGTACAATAGCCATATGGGAAATAATGCTTCTCGCCACACAGTACAAATG
GAGAAGTGTATGGACTTCTGGGAAACGCGCTCACCATAAAAAAGAGTCAGAAATA

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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_173440
- Insert Size:** 3486 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).
- 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_173440.2](#), [NP_775616.1](#)

RefSeq Size: 4529 bp

RefSeq ORF: 3486 bp

Locus ID: 268903

UniProt ID: [Q8CBD1](#)

Cytogenetics: 16 C3.1

Gene Summary: Modulates transcriptional repression by nuclear hormone receptors such as NR2C1, thyroid hormone receptor and retinoic acid receptor/RARA. Essential for cumulus expansion and follicle rupture during ovulation. Also controls the balance between fat accumulation and energy expenditure. Positive regulator of the circadian clock gene expression: stimulates transcription of ARNTL/BMAL1, CLOCK and CRY1 by acting as a coactivator for RORA and RORC.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longer transcript. Both variants 1 and 2 encode the same protein. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.