

Product datasheet for **MC200028**

Nelfb (NM_021393) Mouse Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Nelfb (NM_021393) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Nelfb |
| Synonyms: | A730008L03Rik; AB041607; AI663983; Cob; Cobra1; Nelf-b |
| Mammalian Cell Selection: | Neomycin |
| Vector: | PCMV6-Kan/Neo (PCMV6KN) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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Fully Sequenced ORF: >BC004762 sequence for NM_021393
 GAGCTGCTCTGCTGACGCGATCTGGCCACACTGGAGGCGGGCGAACGGGGCTTGGGGGTCCTCGTG
 GCACCGTGGAGAGGGCTTCTGGGGCTCCGTACGGGTCCGCTACGGCTCCAGCGGAGCGGGTGGGGATGG
 GGTACACAGCCGAGCGTCCGCCGGAGCCTCCGCCATGTTGCGGGGGCTCCAGGACCTGGGCGTGGCCAAT
 GGGGAGGACCTGAAAGAGACCCTGACCAACTGCACCGAGCCTCTCAAGGCCATTGAACAATTTAGACAG
 AGAATGGCGTGTGCTGCCTTCCCTGCAGTCGGCCCTGCCCTTCTGGATCTACACGGGACACCGCGGCT
 GGAGTCCATCAGTCAGTGTGTTGATGAACTACGTGACAACTTCTGGAACGAGTGTGAGCAATTGCCTCT
 GAGGAAAAGGCAGAGGAGAGGTACAAGAAGCTGGAAGACCTTCTGAAAAGAGCTTTTCTTTGGTCAAGA
 TGCCATCCCTACAACAGTGGTGTGTGTATGAAACACTTGCCCAAGGTTCTGAGAAGAAGCTGAA
 GCTGGTGTGGCTGACAAGGAGTGTACCGGGCATGTGCTGTGGAAGTGAAGAGGAGATTTGGCAAGAC
 AACCGGCTCTTTGGTGTGAGTGTACCACTGCTGAAGCAGTATATCCTAGAGAAAGAGAGTGC
 TCTTCAGCACAGAGCTCTGTGCTGCACAACCTTTCAGCCCTTCCCCAAGACCCGGCCCAAGGAGA
 GGTGGTGCAGAAGCTGACGCAGATGGTAGGAAGAATGTGAAGTGTACGACATGGTGTGAGTTCCTG
 CGCACACTGTTTCTCGGACCAGGAATGTGCACTACTGCACGTTACGAGCTGAGCTGCTCATGTCTTTGC
 ATGACTTGGACGTCAGTACATCTGCACGTGGATCCCTGCCATAAGTTACCTGGTGCCTGGATGCCTG
 CATCCGGGAACGGTTTGTGGACAGCAAAAGAGCCCGGAGCTTACAGGATTTCTTGATGGTGTGAAGAAG
 GGCCAGGAACAAGTTTTGGGGGATTTGTCTATGATCCTGTGCGACCCCTTGGCCATCAACACACTGTCCC
 TGAGCACCATCAGGCACTTGACGAGCTGGTTAGCCAGGAGACACTGCCAGGGATAGTCCCAGCTCCT
 CCTACTACTTAGGCTGCTGGCACTGGGCAAGGTGCATGGGACTTAATAGATAGCCAGGTCTTCAAGGAG
 CCTAAGATGGAGGCAGAGCTCATACCAAGTTCCTGCCGATGCTCATGTCCCTCGTGGTGGATGACTTCA
 CTTTCAACGTAGATCAGAAGCTTCCAGCTGAGGAGAAAGCCTCAGTCACATACCCCAACACACTTCTGA
 GAGTTTACCAAGTTTCTGCAGGAGCAGCGCATGGCTTGTGAGGTGGGACTATACTACGTCCTACACATC
 ACCAAGCAGAGAAAACAAGATGCTCTCCTGCGCTGCTGCCTGGACTTGTGAAAACGTTTGGTGCCTGG
 CCTTCAGTGACATCTTTCTCCACCTGCTACTGGGAGCCTGGTACTGCTTGTGATGAATTTGCCCTGGA
 GGATTTCTGCAGCAGCCTCTTTGATGGCTTCTTCTCACTGCCTCTCCCAGGAAGGAGAATGTGCACCGT
 CATGTGCTGAGGCTTCTCCTCCACTTGCATGCAAGAGTGGCCCTTCCAAGCTGGAGGCATTGCAGAAGG
 CTCTGGAGCCACAGGCCAGAGCGGGGAGGCCGTGAAGGAGCTCTACTCCAGCTTGGTGAAGATTGGA
 GCAGTTAGACCATCGAAAGCCCAGTCTACCAAGCTGCAGAGACACCAGCACTGGATCTGCCTTCTCCC
 AGCGTGCCTGCTCCAGCCACACTGTGAGGCTGTGGAGAAGTAACTGTTTGACAGTGGTGCCTATGGA
 AGGGCACCTAGTTGGCTAGGGGTGTAGGCTGAGCTGAGAGGGGTGTTCTTTGGCAAGTTCTCCCTCCTC
 TAGTTTCTCCAGGAGCTGGTCCAAAAGTCTCCTCCTCAGTGGTCTACTTGCATATCATAGGGGCCCT
 TGATGTATGGTGGGACTTGGCCCTGCTTACCTGGCAGAGGTGGATGGTATTGGGATATAGAAAA
 GCAGTGGGAGAGGCCTGACTGACCTGATATCAATCTGCACAAAGTCCAAGGTATGCTAGGTTACCAA
 AGTAGATTTGCTGGACCTGATCCCAAGCACAGGAGTGGTACCCTCCACAGAAGCTGGGGGAGAGTCTGC
 AGCAGGCTGAGCCTGCTGATGTGAGTGTGACTGAGTCCATGCTAACTGAGATCTGTAGGCAGAGCTCT
 GCCCTGTAGTCCCTGCCTCAGTTATCTTTGCAATACAAAGCAAATCCTTCCCCAGCTATGTGTTTTAG
 CCTTTGAGTAGGGGATTTCCGGTGTACACATTGAATTTCCACTATGTAATAAAACGGATTTTGATAA AAAAAAAAAAAAAA

- Restriction Sites:** RsrII-NotI
- ACCN:** NM_021393
- Insert Size:** 1428 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: [BC004762](#), [AAH04762](#)

RefSeq Size: 2533 bp

RefSeq ORF: 1428 bp

Locus ID: 58202

UniProt ID: [Q8C4Y3](#)

Cytogenetics: 2 A3

Gene Summary: This gene encodes subunit B of a metazoan-specific, four-subunit protein complex that regulates promoter-proximal pausing of RNA polymerase II. RNA polymerase II pausing is thought to be important for coordination of gene transcription during embryonic development and stress responses. Consistently, disruption of this gene in mouse causes inner cell mass deficiency and embryonic lethality. In addition, this gene is required for maintenance of mouse embryonic stem cells by preventing expression of developmental genes. In adult mice, conditional deletion of this gene results in cardiomyopathy and impaired response to cardiac stress. Multiple protein isoforms are encoded through the use of a non-AUG (CUG) initiation codon and an alternative downstream AUG initiation codon. In addition, alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2015]
Transcript Variant: This variant (1) represents the longer isoform (1), which is translated using a non-AUG (CUG) start codon. CCDS Note: The coding region has been updated to extend the protein N-terminus and to use a non-AUG (CUG) start codon, supported by data in PMID:26010750.