

## Recombinant Mouse Nelfb Protein, Myc/DDK-tagged

**Cat. No.** Nelfb-4372M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| <b>Product Overview</b> | Purified recombinant protein of mouse full-length negative elongation factor complex member B (Nelfb), with C-terminal MYC/DDK tag, expressed in HEK293T cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Description</b>      | <p>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.</p> |
| <b>Molecular Mass</b>   | 53.9 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Stability</b>        | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>          | Store at -80 centigrade after receiving vials.                                                                                                                                                                                                                 |
| <b>Concentration</b>    | >50 µg/mL as determined by microplate BCA method                                                                                                                                                                                                               |
| <b>Storage Buffer</b>   | 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.                                                                                                                                                                                                          |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                |
| <b>Gene Name</b>        | Nelfb negative elongation factor complex member B [ Mus musculus (house mouse) ]                                                                                                                                                                               |
| <b>Official Symbol</b>  | Nelfb                                                                                                                                                                                                                                                          |
| <b>Synonyms</b>         | Nelfb; negative elongation factor complex member B; Cob; Cobra1; Nelf-b; AB041607; AI663983; A730008L03Rik; negative elongation factor B; cofactor of BRCA1; negative elongation factor complex member B, Cobra1; ortholog of human cofactor of BRCA1 (COBRA1) |
| <b>Gene ID</b>          | 58202                                                                                                                                                                                                                                                          |
| <b>mRNA Refseq</b>      | NM_021393                                                                                                                                                                                                                                                      |
| <b>Protein Refseq</b>   | NP_067368                                                                                                                                                                                                                                                      |
| <b>UniProt ID</b>       | Q69ZP4                                                                                                                                                                                                                                                         |

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