

## Recombinant Human NEFL, GST-tagged

Cat. No. NEFL-12H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human NEFL(1 a.a. - 543 a.a.), fused with GST-tag at N-terminal, was expressed in wheat germ.
<b>Species</b>	Human
<b>Source</b>	Wheat Germ
<b>Description</b>	Neurofilaments are type IV intermediate filament heteropolymers composed of light, medium, and heavy chains. Neurofilaments comprise the axoskeleton and they functionally maintain the neuronal caliber. They may also play a role in intracellular transport to axons and dendrites. This gene encodes the light chain neurofilament protein. Mutations in this gene cause Charcot-Marie-Tooth disease types 1F (CMT1F) and 2E (CMT2E), disorders of the peripheral nervous system that are characterized by distinct neuropathies. A pseudogene has been identified on chromosome Y.
<b>Molecular Mass</b>	87.9 kDa
<b>AA Sequence</b>	MSSFSYEPYYSTSYKRRYVETPRVHISSVRSGYSTARSAYSSYSAPVSSSLSVRRSY SSSSGSLMPLENLDLSQ VAAISNDLKSIRTQEKAQLQDLNDRFASFIERVHELEQQ NKVLEAELLVLRQKHSEPSRFRALYEQEIRDLRLAA EDATNEKQALQGEREGLEETL RNLQARYEEVLSREDAEGRLMEARKGADEAALARAELEKRIDSLMDEISFLKK VH EEEIAELQAQIQYAQISVEMDVTKPDLAALKDIRAQYEKLAAKNMQNAEEWFKSRF TVLTESAANKNTDAVRA AKDEVSESRLLKAKTLEIEACRGMNEALEKQLQELEDKQ NADISAMQDTINKLENELRTTKSEMARYLKEYQDL LNVKMALDIEIAAYRKLEGEET

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<b>Chromosome Location</b>	8p21
<b>Pathway</b>	Activation of NMDA receptor upon glutamate binding and postsynaptic events; Amyotrophic lateral sclerosis (ALS); CREB phosphorylation through the activation of Ras
<b>Function</b>	identical protein binding; phospholipase binding; protein C-terminus binding

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