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Product datasheet for RC205920L4V

Neurofilament (NEFL) (NM_006158) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Neurofilament (NEFL) (NM_006158) Human Tagged ORF Clone Lentiviral Particle
Symbol:	Neurofilament
Synonyms:	CMT1F; CMT2E; CMTDIG; NF-L; NF68; NFL; PPP1R110
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_006158
ORF Size:	1629 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC205920).
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	NM_006158.2
RefSeq Size:	3854 bp
RefSeq ORF:	1632 bp
Locus ID:	4747
UniProt ID:	P07196
Cytogenetics:	8p21.2
Domains:	filament, filament_head
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS

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Protein Pathways: Amyotrophic lateral sclerosis (ALS)

MW: 61.5 kDa

Gene Summary: 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. [provided by RefSeq, Oct 2008]