

## Product datasheet for **SC126222**

### Neurofilament (NEFL) (BC066952) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Neurofilament (NEFL) (BC066952) Human Untagged Clone
Tag:	Tag Free
Symbol:	NEFL
Synonyms:	CMT1F; CMT2E; FLJ53642; light molecular weight neurofilament protein; neurofilam; neurofilament, light polypeptide 68kDa; neurofilament-light; neurofilament protein, light chain; neurofilament subunit NF-L; neurofilament triplet L protein; NF-L; NF68; NFL
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None



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**Fully Sequenced ORF:** >OriGene sequence for BC066952 edited  
 GCACACAGCCATCCATCCTCCCCCTTCCCTCTCTCCCCTGTCTCTCTCAGGGCTCCC  
 ACCGCCGCGCGGGCCGGGGAGCCACCGGCCGCCACCATGAGTTCCTTCAGCTACGAGCC  
 GTACTACTCGACCTCTACAAGCGGCGCTACGTGGAGACGCCCGGGTGCACATCTCCAG  
 CGTGCGCAGCGGCTACAGCACCGCAGCTCAGTTACTCCAGCTACTCGGCGCCGGTGTCT  
 TTCTCGCTGTCCGTGCGCCGAGCTACTCCTCCAGCTCTGGATCGTTGATGCCAGTCT  
 GGAGAACCTCGACCTGAGCCAGGTAGCCGCCATCAGCAACGACCTCAAGTCCATCCGCAC  
 GCAGGAGAAGGCGCAGCTCCAGGACCTCAATGACCGCTTCGCCAGCTTCATCGAGCGCGT  
 GCACGAGCTGGAGCAGCAGAACAAGTCTGGAAGCCGAGCTGCTGGTGTGCGCCAGAA  
 GCACTCCGAGCCATCCCCTTCCGGGCGCTGTACGAGCAGGAGATCCGCGACCTGCGCCT  
 GCGCGCGGAAGATGCCACCAACGAGAAGCAGGCGCTCCAGGGCAGCGCAAGGGCTGGA  
 GGAGACCTGCGCAACCTGCAGGCGCGCTATGAAGAGGAGGTGCTGAGCCGCGAGGACGC  
 CGAGGGCCGGCTGATGGAAGCGCGCAAAGGCGCCAAGAACACCGACGCGTGCAGCGCCG  
 CAAGGACGAGGTGCTCGAGAGCCGTCTGCTCAAGGCCAAGACCTGGAATCGAAGC  
 ATGCCGGGCATGAATGAAGCGCTGGAGAAGCAGCTGCAGGAGCTGGAGGACAAGCAGAA  
 CGCCGACATCAGCGTTATGCAGGACACGATCAACAAATTAGAAAATGAATTGAGGACCAC  
 AAAGAGTGAAATGGCAGGATACCTAAAAGAATACCAAGACCTCCTAACGTGAAGATGGCT  
 TTGGATATTGAGATTGCAGCTTACAGGAACTCTTGAAGGCGAGGAGACCCGACTCAGT  
 TTCACCAGCGTGGGAAGCATAACCAGTGGCTACTCCCAGAGCTCCCAGGTCTTTGGCCGA  
 TCTGCCTACGGCGGTTTACAGACCAGCTCCTATCTGATGTCCACCCGCTCCTTCCCGTCC  
 TACTACACCAGCCATGTCCAAGAGGAGCAGATCGAAGTGGAGGAAACCATTGAGGCTGCC  
 AAGGCTGAGGAAGCCAAGGATGAGCCCCCTCTGAAGGAGAAGCCGAGGAGGAGGAGAAG  
 GACAAGGAAGAGGCCGAGGAAGAGGAGGAGCAGCTGAAGAGGAAGAAGCTGCCAAGGAAG  
 TCTGAAGAAGCAAAAAGAAGAAGAAGGAGGTGAAGGTGAAGAAGGAGAGGAAAACCAAA  
 GAAGCTGAAGAGGAGGAGAAGAAAGTTGAAGGTGCTGGGAGGAACAAGCAGCTAAGAAG  
 AAAGATTGAACCCCATTTCTTAATTATTTTCAAGGAATAATTCTCCGAAATCAGGTCAA  
 CCCCATACCAACCAACCAACCAGTTGAGTTCCAGATTCTATGTGAATTAAGTCAAT  
 ATATGTATAATTCTGAGATGACTTAGGTTGGACATTCAATGTTGTGCTATGAATTTCTC  
 TTTATGCAGAGTATCTGTTTGTGTCAGAGTGGCTTTCTGGCTTGTGCCAGCCTGTGCA  
 TGGTCCACGCTTATGAGTTCAGGATCTACGGCAATGTGAATCATTAGATGTTTACAATA  
 AAAACACCACATGAGTAAATGAATTCATAATGTTAATGTTAACTTCATGGAAAAATA  
 GTCCTTTGAACCTTCGGTGGTTAGCAATTAAGACCCCTGAGTTATGTGCAATAAATAGTA  
 AATAAAGTTATACCGAACGAAAAAAAAAAAAAAAAA

**5' Read Nucleotide Sequence:** >OriGene 5' read for BC066952 unedited  
 GAATTGGGGTGAATTTGTAACGACTCATATAGGCGGCCGATAAATTCTGATAGCAT  
 ACATTATACGAAGTTATGGATCAGGCCAAATCGGCCGAGCTCGAATTCGTCGAGAGCGGG  
 CACACAGCCATCCATCCTCCCCCTTCCCTCTCTCCCCTGTCTCTCTCAGGGCTCCCA  
 CCGCCGCGCGGGCCGGGAGCCACCGGCCGCCACCATGAGTTCCTTCAGCTACGAGCCG  
 TACTACTCGACCTCTACAAGCGGCGCTACGTGGAGACGCCCGGGTGCACATCTCCAGC  
 GTGCGCAGCGGTACAGCACCGCAGCTCAGTTACTCCAGCTACTCGGCGCCGGTGTCT  
 TCCTCGCTGTCCGTGCGCCGAGCTACTCCTCCAGCTCTGGATCGTTGATGCCAGTCTG  
 GAGAACCTCGACCTGAGCCAGGTAGCCGCCATCAGCAACGACCTCAAGTCCATCCGCACG  
 CAGGAGAAGGCGCAGCTCCAGGACCTCAATGACCGCTTCGCCAGCTTCATCGAGCGCGT  
 CACGAGCTGGAGCAGCAGAAAGGTCCTGGAAGCCGAGCTGCTGGTGTGCGCCAGAAG  
 CACTCCGAGCCATCCCCTTCCGGGCGCTGTACGAGCAGGAGATCCGCGACCTGCGCCTG  
 GCGCGGAAGATGCCACCAACGAGAAGCANGCGCTCCAGGGCAGCGCAAGGGCTGGAG  
 GAGACCTGCGCAACCTGCNAGCGCGCTATGAAGAGGAGGTGCTGAGCCGCGAGGACGCC  
 CGAGGCCGGCTGATGGAAGCGCGCAAAGGCGCAAAACACCGACGCGGTGCGCGCCGCCNA  
 GGACGAGGTGTCCC

**Restriction Sites:** NotI-NotI

<b>ACCN:</b>	BC066952
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">BC066952.1</a> , <a href="#">AAH66952.1</a>
<b>RefSeq Size:</b>	1895 bp
<b>Locus ID:</b>	4747
<b>Cytogenetics:</b>	8p21.2
<b>Protein Families:</b>	Druggable Genome, ES Cell Differentiation/IPS
<b>Protein Pathways:</b>	Amyotrophic lateral sclerosis (ALS)
<b>Gene Summary:</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. [provided by RefSeq, Oct 2008]