

## Product datasheet for **SC317116**

### Neurofilament (NEFM) (NM\_001105541) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Neurofilament (NEFM) (NM\_001105541) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** NEFM  
**Synonyms:** NEF3; NF-M; NFM  
**Vector:** pCMV6 series

**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001105541, the custom clone sequence may differ by one or more nucleotides

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ATGGCTCGTCATTTGCGCGAATACCAGGACCTCCTCAACGTCAAGATGGCTCTGGATATA
GAAATCGCTGCGTACAGAAAACCTGGAGGGTGAAGAGACTAGATTTAGCACATTTGCA
GGAAGCATCACTGGGCCACTGTATACACACCGACCCCAATCACAATATCCAGTAAGATT
CAGAAACCAAGGTGGAAGCTCCCAAGCTTAAGGTCCAACACAAATTTGTCGAGGAGATC
ATAGAGGAAACCAAGTGGAGGATGAGAAGTCAGAAATGGAAGAGGCCCTGACAGCCATT
ACAGAGGAATTGGCCGTTTCCATGAAGGAAGAGAAGAAAGAACAGCAGAGAAGAAAAGAA
GAGGAACCCGAAGCTGAAGAAGAAGAAGTAGCTGCCAAAAGTCTCCAGTGAAAGCAACT
GCACCTGAAGTTAAAGAAGAGGAAGGGGAAAAGGAGGAAGAAGAAGGCCAGGAAGAAGAG
GAGGAAGAAGATGAGGGAGCTAAGTCAGACCAAGCCGAAGAGGGAGGATCCGAGAAGGAA
GGCTCTAGTGA AAAAGAGGAAGGTGAGCAGGAAGAAGGAGAAAACAGAAGCTGAAGCTGAA
GGAGAGGAAGCCGAAGCTAAAGAGGAAAAGAAAGTGGAGGAAAAGAGTGAGGAAGTGGCT
ACCAAGGAGGAGCTGGTGGCAGATGCCAAGGTGGAAGGCAAGTCTCCTGTGCCAAGTCAACAGTGGAA
GAGAAAAGCAAGTCTCCTGTGCCAAGTCAACAGTGGAAAGAGAAAAGGCAAGTCTCCTGTG
CCGAAATCACCAGTGGAAAGAGAAAAGGCAAGTCTCCTGTGTCAAAATCACCAGTGGAAAG
AAAGCCAAATCTCCTGTGCCAAGTCAACAGTGGAAAGAGGCAAGTCAAAAAGCAGAAGTG
GGGAAAGGTGAACAGAAAAGAGGAAGAAGAAAAGGAAGTCAAGGAAGCTCCCAAGGAAGAG
AAGGTAGAGAAAAGGAAGAGAAAACCAAGGATGTGCCAGAGAAGAAGAAAGCTGAGTCC
CCTGTAAGGAGGAAGCTGTGGCAGAGGTGGTACCATACCAAAATCGGTAAAGTGCAC
TTGGAGAAAGAGACCAAGAAGAGGGGAAGCCACTGCAGCAGGAGAAAGAGAAGGAGAAA
GCGGGAGGAGAGGGGAGGAAGTGAAGGAGGAAGGGAGTGATAAAGGTGCCAAGGGATCCAGG
AAGGAAGACATAGCTGTCAATGGGGAGGTAGAAGGAAAAGAGGAGGTAGAGCAGGAGACC
AAGGAAAAGGCAGTGGGAGGGAAGAGGAGAAAAGCGTTGTACCAATGGCCTAGACTTG
AGCCAGCAGATGAAAAGAGGGGGGTGATAAAGTGAAGGAGAAAAGTGGTGGTGACAAA
ACGGTAGAAAAAATCACCAGTGAAGGGGGAGATGGTGCTACAAAATACATCACTAAATCT
GTAACCGTCACTCAAAGGTTGAAGAGCATGAAGAGACCTTTGAGGAGAAAAGTAGTGTCT
ACTAAAAGGTAGAAAAGTCACTTCACACGCCATAGTAAAGGAAGTCAACCCAGAGTGAC
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**Restriction Sites:** Please inquire



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<b>ACCN:</b>	NM_001105541
<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>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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>	<u>NM_001105541.1, NP_001099011.1</u>
<b>RefSeq Size:</b>	2514 bp
<b>RefSeq ORF:</b>	1623 bp
<b>Locus ID:</b>	4741
<b>Cytogenetics:</b>	8p21.2
<b>Protein Pathways:</b>	Amyotrophic lateral sclerosis (ALS)
<b>Gene Summary:</b>	<p>Neurofilaments are type IV intermediate filament heteropolymers composed of light, medium, and heavy chains. Neurofilaments comprise the axoskeleton and functionally maintain neuronal caliber. They may also play a role in intracellular transport to axons and dendrites. This gene encodes the medium neurofilament protein. This protein is commonly used as a biomarker of neuronal damage. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Oct 2008]</p> <p>Transcript Variant: This variant (2) contains a distinct 5' UTR and lacks an in-frame portion of the 5' coding region, compared to variant 1. The resulting isoform (2) has a shorter N-terminus when compared to isoform 1.</p>