

## Product datasheet for **SC319257**

### Optineurin (OPTN) (NM\_001008211) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Optineurin (OPTN) (NM_001008211) Human Untagged Clone
Tag:	Tag Free
Symbol:	Optineurin
Synonyms:	ALS12; FIP2; GLC1E; HIP7; HYPL; NRP; TFIIIA-INTP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_001008211.1  
 GGCTGCCCCCTCCGCCACCGCCGCCGCCGCCGCGGCAGGTTCCCTGGTCAGCGTCCCATCC  
 CCGTGGGAGTTCTCTCCAGGCGGCACGATGCCGAGGAAACAGTGACCCTGAGCGAAGCC  
 AAGCCGGGCGGCAGGAACTTCTGCAATGTCCCATCAACCTCTCAGCTGCCTCACTGAAAA  
 GGAGGACAGCCCCAGTAAAAGCAGGAAATGGACCCCCACCTGGCCACCCAAACCT  
 GGACACGTTTACCCCGGAGGAGCTGCTGCAGCAGATGAAAGAGCTCCTGACCGAGAACCA  
 CCAGCTGAAAGAAGCCATGAAGCTAAATAATCAAGCCATGAAAGGAGATTTGAGGAGCT  
 TTCGGCTGGACAGAGAAAACAGAAGGAAGAACGCCAGTTTTTTGAGATACAGAGCAAAGA  
 AGCAAAAAGAGCGTCTAATGGCCTTGAGTCATGAGAATGAGAAATTGAAGGAAGAGCTTGG  
 AAAACTAAAAGGGAAATCAGAAAGGTCATCTGAGGACCCCACTGATGACTCCAGGCTTCC  
 CAGGGCCGAAGCGGAGCAGGAAAAGGACCAGCTCAGGACCCAGGTGGTGAGGCTACAAGC  
 AGAGAAGGCAGACCTGTTGGGCATCGTGTCTGAACTGCAGCTCAAGCTGAACTCCAGCGG  
 CTCCTCAGAAGATTCTTTGTTGAAATTAGGATGGCTGAAGGAGAAGCAGAAGGGTCAGT  
 AAAAGAAATCAAGCATAGTCTGGGCCACGAGAACAGTCTCCACTGGCACGGCATTGTC  
 TAAATATAGGAGCAGATCTGCAGATGGGGCCAAGAATTACTTCGAACATGAGGAGTTAAC  
 TGTGAGCCAGCTCCTGTGTGCCTAAGGGAAGGAATCAGAAGGTGGAGAGACTTGAAGT  
 TGCACTCAAGGAGGCCAAAGAAAAGATTTTCAGATTTTGAAAAGAAAACAAGTAATCGTTC  
 TGAGATTGAAACCCAGACAGAGGGGAGCACAGAGAAAAGAGAATGATGAAGAGAAAGGCC  
 GGAGACTGTTGGAAGCGAAGTGGAAAGCACTGAACCTCCAGGTGACATCTCTGTTTAAAGGA  
 GCTTCAAGAGGCTCATACAAAACCTCAGCGAAGCTGAGCTAATGAAGAAGAGACTTCAAGA  
 AAAGTGTGAGCCCTTAAAAGGAAAAATCTGCAATCCATCAGAGTTGAATGAAAAGCA  
 AGAGCTTGTATACTAACAAAAAGTTAGAGCTACAAGTGGAAAGCATGCTATCAGAAAT  
 CAAAATGGAACAGGCTAAAACAGAGGATGAAAAGTCCAAATTAAGTGTGCTACAGATGAC  
 ACACAACAAGCTTCTTCAAGAACATAATAATGCATTGAAAACAATTGAGGAACTAACAG  
 AAAAGAGTCAGAAAAAGTGGACAGGCGAGTGTGAAGGAACTGAGTGAAAAACTGGAAC  
 GGCAGAGAAGGCTCTGGCTTCCAAACAGCTGCAAATGGATGAAATGAAGCAAACCATGTC  
 CAAGCAGGAAGAGGACCTGGAAACCATGACCATCCTCAGGGCTCAGATGGAAAGTTTACTG  
 TTCTGATTTTCATGCTGAAAGAGCAGCGAGAGAGAAAATTCATGAGGAAAAGGAGCAACT  
 GGCATTGCAGCTGGCAGTTCTGCTGAAAGAGAATGATGCTTTTGAAGACGGAGGCAGGCA  
 GTCCTTGTGAGATGCAGAGTCGTCATGGGGCGAGAACAAGTACTCTGACCAGCAGGC  
 TTACCTTGTTCAAAGAGGAGCTGAGGACAGGGACTGGCGCAACAGCGGAATATTCGGAT  
 TCATTCTGCCCAAGTGTGGAGAGGTTCTGCCTGACATAGACACGTTACAGATTCACGT  
 GATGGATTGCATCATTTAAGTGTGATGTATCACCTCCCCAAAACCTGTTGGTAAATGTCA  
 GATTTTTTCTCCAAGAGTTGTGCTTTTGTGTTATTTGTTTTCACTCAAATATTTTGCTT  
 CATTATTTCTGTTTTAAAAGAAAGAAAACAGGCCGGGCACAGTGGCTCATGCCTGTAATC  
 CCAGCACTTTGGGAGGTCGAGGTGGGTGGATCACTTGGGGTCAGGGTTTGAGACCAGCCT  
 GGCCAACATGGCGAACCCTGTCTCTACCAAAATACAAAAATAGCCGAGCATGGTGGC  
 GCATGCCTGTAGTCGCAGCTACTCGCGAGTTGAGGCAGGAGAATTGCTTGAACCCAGGA  
 AGTGGCAGTTGCAGTGAGCCGAGACGACACCCTGCACTCCAGCCTGGGTGACAGAGGGA  
 GACTCTGTCTCGAAAGAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_001008211

**OTI Disclaimer:** 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><a href="#">NM_001008211.1</a></u> , <u><a href="#">NP_001008212.1</a></u>
<b>RefSeq Size:</b>	3597 bp
<b>RefSeq ORF:</b>	1734 bp
<b>Locus ID:</b>	10133
<b>UniProt ID:</b>	<u><a href="#">Q96CV9</a></u>
<b>Cytogenetics:</b>	10p13
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	<p>This gene encodes the coiled-coil containing protein optineurin. Optineurin may play a role in normal-tension glaucoma and adult-onset primary open angle glaucoma. Optineurin interacts with adenovirus E3-14.7K protein and may utilize tumor necrosis factor-alpha or Fas-ligand pathways to mediate apoptosis, inflammation or vasoconstriction. Optineurin may also function in cellular morphogenesis and membrane trafficking, vesicle trafficking, and transcription activation through its interactions with the RAB8, huntingtin, and transcription factor IIIA proteins. Alternative splicing results in multiple transcript variants encoding the same protein. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) represents the longest transcript. Variants 1, 2, 3, and 4 encode the same protein.</p>