

Product datasheet for **SC301257**

Optineurin (OPTN) (NM_001008213) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Optineurin (OPTN) (NM_001008213) Human Untagged Clone
Tag:	Tag Free
Symbol:	Optineurin
Synonyms:	ALS12; FIP2; GLC1E; HIP7; HYPL; NRP; TFIIIA-INTP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC301257 representing NM_001008213.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGTCCCATCAACCTCTCAGCTGCCTCACTGAAAAGGAGGACAGCCCCAGTGAAAGCACAGGAAATGGA
CCCCCCACCTGGCCACCCAAACCTGGACACGTTTACCCCGGAGGAGCTGCTGCAGCAGATGAAAGAG
CTCCTGACCGAGAACCACAGCTGAAAGAAGCCATGAAGCTAAATAATCAAGCCATGAAAGGGAGATTT
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GCAAAAGAGCGTCTAATGGCCTTGAGTCATGAGAATGAGAAATTGAAGGAAGAGCTTGAAAACTAAAA
GGGAAATCAGAAAGGTCTCTGAGGACCCACTGATGACTCCAGGCTTCCAGGGCCGAAGCGGAGCAG
GAAAAGGACCAGCTCAGGACCCAGGTGGTGGGCTACAAGCAGAGAAGGCAGACCTGTTGGGCATCGTG
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GAAGGAGAAGCAGAAGGGTCAGTAAAAGAAATCAAGCATAGTCTGGGCCACGAGAACAGTCTCCACT
GGCAGCGCATTGTCTAAATATAGGAGCAGATCTGCAGATGGGGCCAAGAATTACTTCGAACATGAGGAG
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CTCAAGGAGGCCAAAGAAAGAGTTTTAGATTTTAAAAAGAAAACAAGTAATCGTTCTGAGATTGAAACC
CAGACAGAGGGGAGCACAGAGAAAGAGAATGATGAAGAGAAAAGGCCCGGAGACTGTTGGAAGCGAAGTG
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GCTGAGCTAATGAAGAAGAGACTTCAAGAAAAGTGTGAGGCCCTTGAAGGAAAAAATTCTGCAATTCCA
TCAGAGTTGAATGAAAAGCAAGAGCTTGTATACTAACAAAAAGTTAGAGCTACAAGTGGAAGCATG
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AAAATTCATGAGGAAAAGGAGCAACTGGCATTGCAGCTGGCAGTTCTGCTGAAAGAGAATGATGCTTTC
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CAGCAGGCTTACCTTGTCAAAGAGGAGCTGAGGACAGGGACTGGCGGCAACAGCGGAATATTCCGATT
CATTCTGCCCAAGTGTGGAGAGGTTCTGCCTGACATAGACACGTTACAGATTCACGTGATGGATTGC
ATCATTTAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI

ACCN: NM_001008213

Insert Size: 1734 bp

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).

OTI Annotation: 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.

Components: 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).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
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.

RefSeq: [NM_001008213.1](#)

RefSeq Size: 3582 bp

RefSeq ORF: 1734 bp

Locus ID: 10133

UniProt ID: [Q96CV9](#)

Cytogenetics: 10p13

Protein Families: Druggable Genome

MW: 65.9 kDa

Gene Summary: 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]
Transcript Variant: This variant (4) differs in the 5' UTR compared to variant 1. Variants 1, 2, 3, and 4 encode the same protein.