

Specifications:

Gene:	hOPTN
Accession:	NP_001008212.1
Insert size:	1747bp
Concentration:	10µg at 0.2µg/µL

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

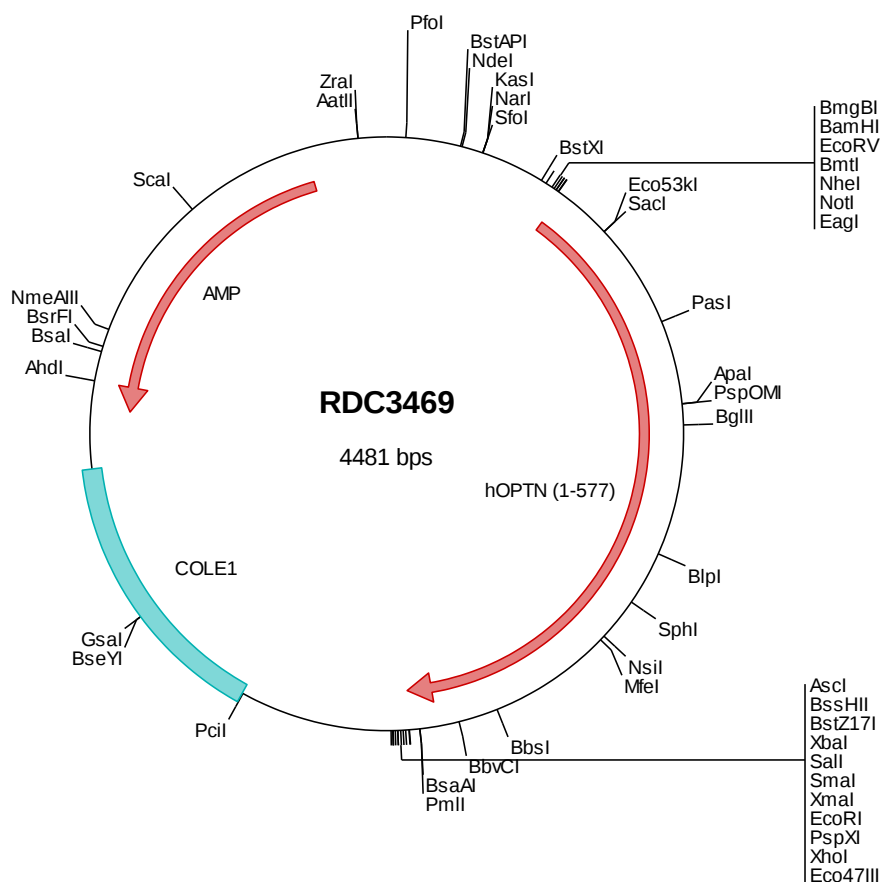
hOptineurin cDNA Plasmid

OPTN optineurin [*Homo sapiens* (human)]

Also known as: NRP; FIP2; HIP7; HYPL; ALS12; GLC1E; TFIIIA-INTP

Summary:

Optineurin is a coiled-coil containing protein that 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. Alternatively spliced transcripts encoding different proteins have been described.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC3469 Plasmid DNA Sequence

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1   tcgcgcgctt cggatgatgac ggtgaaacc tctgacacat gcagctcccc gagacgggtc cagcttgtct gtaagcggat gccgggagca gacaagcccg
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201  ccgcacacgat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctcgcc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
301  tacgccagct ggcgaaaggg ggaatgtgtg caaggcgatt aagttgggta acgccagggt tttcccgatc acgacgttgt aaaacgacgg ccagtgaatt
401  ggagacgtgt taacaagctt ggaaccgata tcgctagcgc ggccgcacc atgtccatc aacctctcag ctgcctcact gaaaaggagg acagccccag
501  tgaaagcaca ggaataggac ccccccacct ggccccacca aacctggaca catttacccc ggaggagctg ctgcagcaga tgaaagagct cctgaccgag
601  aaccaccagc tgaaagaagc catgaagcta aataatcaag ccatgaaagg gagatttgag gagctttcgg cctggacaga gaaacagaag gaagaacgcc
701  agttttttga gatacagagc aaagaagcaa aagagcgtct aatggccttg agtcagtaga atgagaaatt gaaggaaagc cttggaatac taaaagggaa
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4401 aagtgccacc tgacgtctaa gaaaccatta ttatcatgac attaacctat aaaaataggc gtatcacgag gccctttcgt c

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> RDC3469 Translated Insert Sequence

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201  ptrtvstgta lskyrssad gakyfehee ltvsqlllcl regnqkverl evalkeaker vsdfekktsn rseietqteg stekendeek gpetvgseve
301  alnlqvtslf kelqeahkl seaelmkkrl qekcgalerk nsaiipsele kqelvytnkk lelqvsmlls eikmeqakte deksklvtlq mthnklqlqh
401  nnalktieel trkesekvdr avlkelsekl elaekalask qlqmdemkqt iakqeedlet mtilraqmev ycsdfhaera arekiheek qlalqlavl1
501  kenda fedgg rqlsmemqsr hgartsdsdq qaylvqrgae drdwrqqrni pihscpkge vlpdtdltqi hvmdcii

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