

Product datasheet for SC301491

C1orf69 (IBA57) (NM_001010867) Human Untagged Clone

Product data:

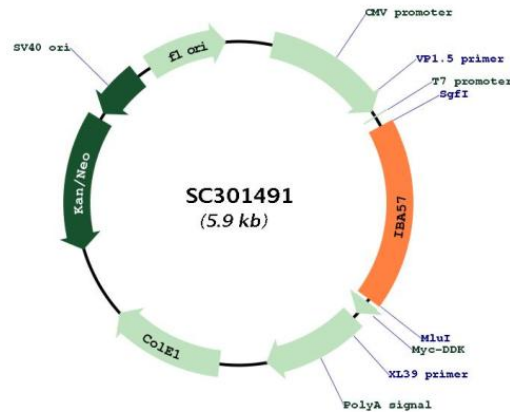
Product Type:	Expression Plasmids
Product Name:	C1orf69 (IBA57) (NM_001010867) Human Untagged Clone
Tag:	Tag Free
Symbol:	IBA57
Synonyms:	C1orf69; MMDS3; SPG74
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC301491 representing NM_001010867. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCGACCGCGGCTGCTTCGAGGCGCCACTCCGGGGCGCGCGGCCCGGTCTGGCGCTGGCGGCTG
CGCGCGGCCCAAGGTGCCGCTGGCCACAGCTCCTGCAGTCTGGTGGCGACCCAACGGCCGGAGCG
GCCTGGGCTGCTTCGGCTGGACGGGCGCACCCTGCTGCGCGTGCCTGGCCCGACGCGGCGCCCTTC
CTGCTAGGGTGTGACCAATGAACTGCCGTTCCGAGTCTGCGGCCGCGGGGGCCCGCCTGCTGCG
CGCGCGGGCTACGCCACTTCTGAACGTGCAGGGCCGGACGCTCTATGACGTCATTTGTACGGGCTC
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CACCTCGCGTATACAGGATCCGGCGGAAGGTCACGGTGGAGCCGACCCGGAGCTGCGAGTGTGGGCG
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CTCATCCGCGACCCGGAACAGCACGCATGGGGTGGCGGCTCCTCACCCAGGATGAAGGCCAGCCCTG
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AAGCGCTTTCCTGTCCGTTCTTGGACCCCTTCCACCAGTGGCATCACCCCTGGTCCACGGTG
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TCTGTGCCAGACTGGTGGCTACAGTCTCCAAGTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:


ACCN: NM_001010867

Insert Size: 1071 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_001010867.3](#)

RefSeq Size: 7824 bp

RefSeq ORF: 1071 bp

Locus ID: 200205

UniProt ID: [Q5T440](#)

Cytogenetics: 1q42.13

MW: 38.2 kDa

Gene Summary: The protein encoded by this gene localizes to the mitochondrion and is part of the iron-sulfur cluster assembly pathway. The encoded protein functions late in the biosynthesis of mitochondrial 4Fe-4S proteins. Defects in this gene have been associated with autosomal recessive spastic paraplegia-74 and with multiple mitochondrial dysfunctions syndrome-3. Two transcript variants encoding different isoforms have been found for this gene. The smaller isoform is not likely to be localized to the mitochondrion since it lacks the amino-terminal transit peptide. [provided by RefSeq, Jul 2015]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: The RefSeq transcript and protein were derived from transcript and genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.