

## Product datasheet for SC316220

### C5ORF33 (NADK2) (NM\_001085411) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	C5ORF33 (NADK2) (NM_001085411) Human Untagged Clone
Tag:	Tag Free
Symbol:	NADK2
Synonyms:	C5orf33; DECRD; MNADK; NADKD1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC316220 representing NM_001085411. Blue=Insert sequence Red=Cloning site Green=Tag(s)

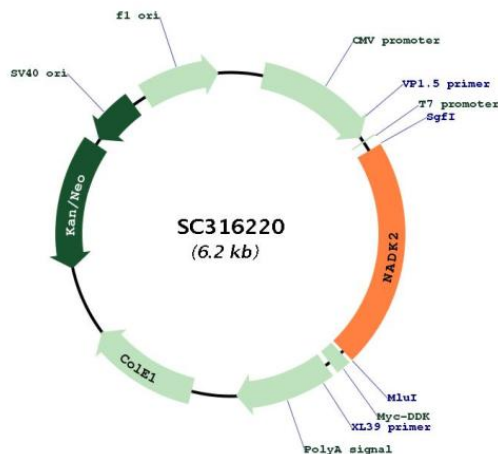
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CGGGGACCGGGTGCAGGAGGCCCGCCGCGCGGCCCGGCTGGCGGTGACGGTGGCGGCCGGCGGCAC
CTGGGGCAGGGGCAGCCGCGAGCTGGCGGGCTGTGGCAGCCGCGGGACGGCGGCTTCCGCCCTCC
CGGGTGGTGGTGGCCAAAACACCCGGTACGAGTTCGAGCAGCAGCGGTACCGTTACGCGGAGCTC
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GTGCTTCTGAACAGTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
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Restriction Sites: Sgfl-MluI

Plasmid Map:



ACCN: NM\_001085411

Insert Size: 1329 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\\_001085411.2](#)

RefSeq Size: 3897 bp

RefSeq ORF: 1329 bp

Locus ID: 133686

UniProt ID: [Q4G0N4](#)

**Cytogenetics:** 5p13.2

**MW:** 49.4 kDa

**Gene Summary:** This gene encodes a mitochondrial kinase that catalyzes the phosphorylation of NAD to yield NADP. Mutations in this gene result in 2,4-dienoyl-CoA reductase deficiency. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2014]  
Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (1).