

Product datasheet for **SC321945**

C5ORF33 (NADK2) (NM_153013) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C5ORF33 (NADK2) (NM_153013) Human Untagged Clone
Tag:	Tag Free
Symbol:	C5ORF33
Synonyms:	C5orf33; DECRD; MNADK; NADKD1
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_153013.2
 GGTGCGGGGAGGTCGCCCCGGGCGCGAAGCGGCCATTATGCAGGCCTTGCATTGAAAG
 GCTCTAGTTACAGTGGACTTCTTGAACGACATCATATTCACACCAAAAATGTAGAACATA
 TTATAGATAGTTTACGGAATGAGGGAATTGAGGTTTCGTCTAGTAAAGAGGAGAGAATATG
 ATGAAGAGACTGTTTCGATGGGCAGATGCTGTATAGCTGCAGGAGGTGATGGCACAATGC
 TGCTGGCAGCGAGTAAAGTCTTGGACAGACTTAAACCAGTTATAGGGGTAACACTGATC
 CAGAACGGTCTGAGGGTCATTTATGCCTGCCGTTTCGATATACACATTCCCTTTCCAGAAG
 CCTTACAGAAGTTCTATCGTGGTGAGTTCAGGTGGTTGTGGAGGCAGAGAATCAGGTTAT
 ACCTTGAAGGGACTGGCATAAACCTGTACCTGTGGACCTTACAGCAGCAGCTAAGCT
 TGAATCAGCACAATAGAGCCCTAACATTGAAAGAGCTCATGATGAAAGGTCTGAGGCTT
 CAGGACCCCAACTTCTGCCAGTGAGAGCACTAAATGAAGTCTTATTGGGGAGAGTCTGT
 CATCCAGGGCTTCTACTATGAGATTTTCAGTTGATGATGGTCCATGGGAAAAACAGAAGA
 GTTCAGGGCTCAATTTGTACTGGAACAGGATCAAAGGCCTGGTCATTCAATATTAACA
 GGGTTGCAACTCAGGCTGTAGAAGATGTTTTAAATATTGCAAAACGACAAGGAAATTTGA
 GTCTTCCATTGAACAGAGAATTGGTAGAGAAAGTAACAAATGAATATAATGAATCACTGC
 TCTACAGTCCGGAAGAACCAAAAATACTTTTCAGTATTCGAGAACCAATAGCAAAATAGAG
 TTTTCTCAAGCAGTCGTAGCGTTGTTTCTCCTCAAAGGTTTGTGTTCTCGTTGTT
 GGGATGCCTGTATGGTTGGATGGAGGAACCTCTTTTGAGTTTAAATGATGGTGCATTTG
 CTTTCGATGATCAATAAAGAAGATGAGCTTCGAACTGTGCTTCTTGAACAGTGAAGGA
 TTTCTCATGACAAATTTTGATTACTGGCGAGAATATTTTACTTCAGAAACAGACTACC
 AGTCGTAAGTGACATTTTTGGTTATTGTTGAGACTGCTTGCCCGTGGGCTCAGAAGTG
 AGATTTGCATTATTCTTCTGTTGGATTCTGATAGAAAAAAGACATTCAGTGTATAAGAA
 AATGGATGGACTGAACCAATTAGAATTGATACCAGTGAATTTTTATATTGCTTACAATT
 GGTAACCAAGAGTGCTGATACCTTTTTAAATTTAGAGGGCAGGCTTAAATAAAGGACTA
 AATATTTAGGATTTGAACTTAACTGTATAAGTGTGTTTTCTTCCCTTCTCCTAATT
 GTGGGATTGTCAGAACTGAACACATATCATTGATTAGTGCATATTTTTATAGTACCTG
 AAAACCAAGATTTGAAAAATTTCAAGACAGAGAATTTGATAAATCCTGACATTGAC
 CTAATTGACATAGGTAATATGTTTGTATATGTGCTAATAATTTTCTAATTTCCGGAACAC
 GATGATGTTATGACTATTGATTTAAAAATTTCAAATAATAATTTTGAATTTATAGATGA
 ATGCTTTTCAATTTGAGTTTCAATCTGTAATTCAGCAGTTCTGGGTGAAATACAGATAGCAA
 AACAAATCATGATGCTGTACAAATGTATTAGTTATCCAATAAGTGTGTTTAAAGTCAATTT
 TTTTAAATGATATGAGTCTTACAGTTTTCTTCCATCTTTAAATGCTCAACATGGATT
 CAGGGACTAAAAGGATGAACTGATTAGACATTTTCTATTAGGAGTTTGGTAAAATATTGT
 AAAAATATCTTACCTGTGTTAGGAGTATTATCAGAAAGAATGGATTCTTTAATAAATAT
 GTAAAACACAGTAGTTTTGGAATTGCCTTCCCTTAGTATTGTGGTTTTACCTAGCTTATA
 TTCCAAGATTTACAGAATAGCTTTTAGGATAAGATGTTAGGACTTTTTTTTTTCCCAT
 GAGAATTCCTTATTTTTGGAGGAAATTATTATCTAATTATTGATCTACTTATAAGTAAT
 CCTAGAATTTTTGCCAAAAGATCCTGTCGTTGCATAATCAAACAGTTGGTATTCTCGTGC
 CGTTGTTCAAAGTCATGTTTTCTTTTCAATTTGGTGTGAAAATTTCTGTTCAATCATTGA
 CAAATATTTATTGAACACCCACTCTGTGCCATGTAAAACATATGTCAGGTGCTGGATATGT
 TGATGAATGAAACAGACTCTATCCTTATACAATTTGAGTCTTGTGGGCTCAGAAGTAAAT
 TCTGTGAAAGCTGGACGGATAGTCGAATTGAGTGTCTTATGTTTTGCCAATATTTAACAT
 GTTGTCTTATCAATTTTTTAAATAAATGTTAATGTACAAAGTAAAAAAAAAAAAAAAA
 AA

Restriction Sites: Please inquire
ACCN: NM_153013

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:	<ol style="list-style-type: none">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:	<u>NM_153013.2</u> , <u>NP_694558.1</u>
RefSeq Size:	2580 bp
RefSeq ORF:	840 bp
Locus ID:	133686
UniProt ID:	<u>Q4G0N4</u>
Cytogenetics:	5p13.2
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) differs in its 5' UTR and initiates translation at a downstream start codon, compared to variant 1. The encoded isoform (2) has a shorter N-terminus, compared to isoform 1. Both variants 2 and 3 encode the same isoform.</p>