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Product datasheet for RG214147

C5ORF33 (NADK2) (NM_001085411) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C5ORF33 (NADK2) (NM_001085411) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NADK2
Synonyms:	C5orf33; DECRD; MNADK; NADKD1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG214147 representing NM_001085411
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACTTGCTACCGAGGCTTCTTGCTGGGCAGCTGTTGTCGCGTGGCGGGCGGCCGGGCGGCGGCGCTGC
GGGGACCGGGTGCGGGAGGCCCCGCCGCGCGGCCCCGGCTGGGCGGTGACGGTGGCGGCCGGCGGCACCT
GGGGCAGGGGCAGCCGCGCGAGCTGGCGGGCTGTGGCAGCCGCGCGGACGGCGGCTTCCGCCCCTCCCGG
GTGGTGGTGGTGGCCAAAACCACCCGGTACGAGTTCGAGCAGCAGCGGTACCGTTACGCGGAGCTCTCGG
AGGAGGACCTGAAGCAGCTGCTTGCATTGAAAGGCTCTAGTTACAGTGGACTTCTTGAACGACATCATAT
TCACACCAAAAATGTAGAACATATTATAGATAGTTTACGGAATGAGGGAATTGAGGTTCGTCTAGTAAAG
AGGAGAGAATATGATGAAGAGACTGTTCGATGGGCAGATGCTGTCATAGCTGCAGGAGGTGATGGCACAA
TGCTGCTGGCAGCGAGTAAAGTCTTGGACAGACTTAAACCAGTTATAGGGGTAAACACTGATCCAGAACG
GTCTGAGGGTCATTTATGCCTGCCCGTTCGATATACACATTCCTTTCCAGAAGCCTTACAGAAGTTCTAT
CGTGGTGAGTTCAGGTGGTTGTGGAGGCAGAGAATCAGGTTATACCTTGAAGGGACTGGCATAAACCCTG
TACCTGTGGACCTTCACGAGCAGCAGCTAAGCTTGAATCAGCACAATAGAGCCCTTAACATTGAAAGAGC
TCATGATGAAAGGTCTGAGGCTTCAGGACCCCAACTTCTGCCAGTGAGAGCACTAAATGAAGTCTTCATT
GGGGAGAGTCTGTCATCCAGGGCTTCCTACTATGAGATTTCAGTTGATGATGGTCCATGGGAAAAACAGA
AGAGTTCAGGGCTCAATTTGTGTACTGGAACAGGATCAAAGGCCTGGTCATTCAATATTAACAGGGTTGC
AACTCAGGCTGTAGAAGATGTTTTAAATATTGCAAAACGACAAGGAAATTTGAGTCTTCCATTGAACAGA
GAATTGGTAGAGAAAGTAACAAATGAATATAATGAATCACTGCTCTACAGTCCGGAAGAACCAAAAATAC
TTTTCAGTATTCGAGAACCAATAGCAAATAGAGTTTTCTCAAGCAGTCGTCAGCGTTGTTTCTCCTCAAA
GGTTTGTGTTCGTTCTCGTTGTTGGGATGCCTGTATGGTTGTGGATGGAGGAACTTCTTTTGAGTTTAAT
GATGGTGCAATTGCTTCGATGATGATCAATAAAGAAGATGAGCTTCGAACTGTGCTTCTTGAACAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

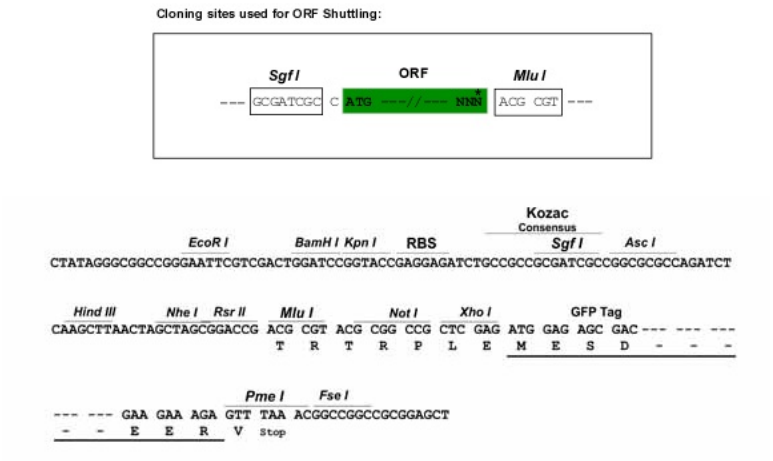
>RG214147 representing NM_001085411
Red=Cloning site Green=Tags(s)

MTCYRGFLLGSCCRVAGGRAAALRGPGAGGPAARPRLGGDGGGRRHLGQGQPRELAGCGSRADGGFRPSR
VVVVAKTTRYEFEQQRYRYAELSEEDLKQLLALKGSSYSGLLERHHIHTKNVEHIIDSLRNEGIEVRLVK
RREYDEETVRWADAVIAAGGDGTMLLAASKVLDRLKPVIGVNTDPERSEGHLCLPVRYTHSFPEALQKFY
RGEFRWLWRQRIRLYLEGTGINPVPVDLHEQQLSLNQHNRALNIERAHDERSEASGPQLLPVRALNEVFI
GESLSSRASYYEISVDDGPWEKQKSSGLNLCTGTGSKAWSFNINRVATQAVEDVLNIAKRQGNLSLPLNR
ELVEKVTNEYNESLLYSPEEPKILFSIREPIANRVFSSSRQRCFSSKVCVRSRCWDACMVVDGGTSFEFN
DGAIASMMINKEDELRTVLLEQ

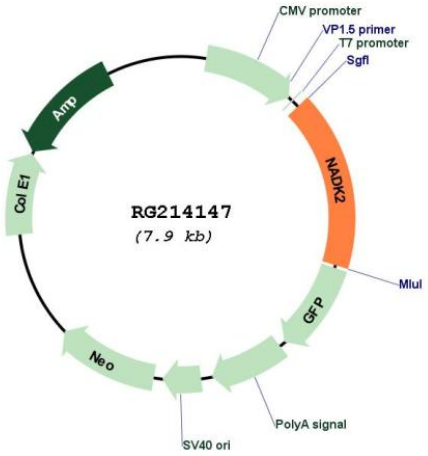
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001085411

ORF Size:	1326 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_001085411.3
RefSeq Size:	3898 bp
RefSeq ORF:	1329 bp
Locus ID:	133686
UniProt ID:	Q4G0N4
Cytogenetics:	5p13.2
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]