

Product datasheet for **RG233836**

CARKD (NAXD) (NM_001242881) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CARKD (NAXD) (NM_001242881) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CARKD
Synonyms:	CARKD; LP3298; PEBEL2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG233836 representing NM_001242881 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGTAATACGACTCACTATAGGGCGGCCGGAATTCTGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGTCACACGCGCGGGGCCGGAAGTCCCGTCGCCGCGCGGTCTGTGCGATTGCTCTCGGCCGCAC
 TCGCGCTGTACGGGCCGCCACTGGACGCAGTTTTAGAAAGAGCGTTTTCGCTACGTAAAGCACATTTCGAT
 AAAGGATATGGAATACTTTGCAGCTGGTGAGAAATATCATACCTCCTCTGTCTCCACAAAGCACAAA
 GGGCAAGATGGAAGAATAGGCGTAGTTGGAGGCTGTCAGGAGTACACTGGAGCCCCATATTTTCAGCAA
 TCTCAGCTCTCAAAGTGGGCGCAGACTTGTCCACGTGTTCTGTGCCAGTGCGGCCGCACCTGTGATTAA
 GGCTACAGCCCCGAGCTGATCGTCCACCCAGTTCTTGACAGCCCCAATGCTGTTTCATGAGGTGGAGAAG
 TGGCTGCCCGGCTGCATGCTCTGTGCTAGGACCTGGCTTGGGTAGAGATGATGCGCTTCTCAGAAATG
 TCCAGGGCATTGGAAGTGTCAAAGGCCAGGGACATCCCTGTTGTATCGACGCGGATGGCCTGTGGCT
 GGTCGCTCAGCAGCCGGCCCTCATCCATGGCTACCGGAAGGCTGTGCTCACTCCCAACCACTGGAGTTC
 AGCAGACTGTATGACGCTGTGCTCAGAGGCCCTATGGACAGCGATGACAGCCATGGATCTGTGCTAAGAC
 TCAGCCAAGCCCTGGGCAACGTGACGGTGGTCCAGAAAGGAGAGCGCGACATCCTCTCCAACGCCAGCA
 GGTGCTTGTGTGACGCCAGGAAGGCAGCAGCCGAGGTGTGGAGGGCAAGGGACCTCCTGTGCGGCTCC
 CTGGGCGTCTGGTACACTGGGCGCTCCTTGTGGACCACAGAAAACAAATGGGTCCAGCCCTCTCCTGG
 TGGCCGCGTTTGGCGCCTGCTCTCTCACCAGGCAGTGCAACCAAGCCTTCCAGAAGCACGGTCGCTC
 CACCACCACCTCCGACATGATCGCCGAGGTGGGGCCGCCTTCAGCAAGCTCTTTGAAACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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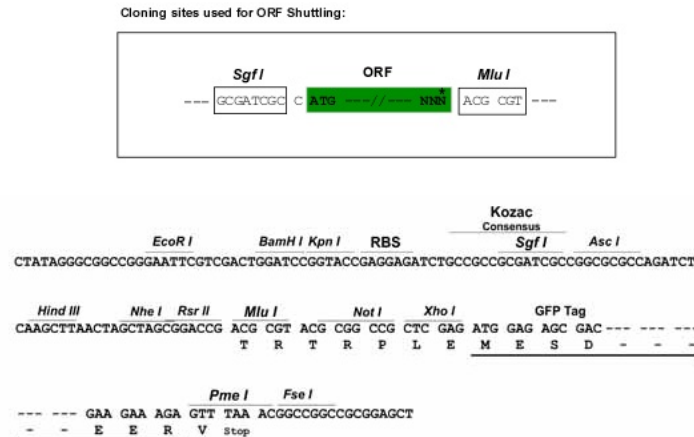
Protein Sequence: >RG233836 representing NM_001242881
 Red=Cloning site Green=Tags(s)

MVTRAGAGTAVAGAVVVALLSAALALYGPPLDAVLERAFSLRKAHSIKDMENTLQLVRNIIPPLSSTKHK
 GQDGRIGVVGGCQEYTGAPYFAAISALKVGADLSHVFCASAAAPVIKAYSPELIVHPVLDSPNVHEVEK
 WLPRLHALVVGPLGRDDALLRNVQGILEVSKARDIPVVIDADGLWLVAQQPALIHGYRKAVLTPNHVEF
 SRLYDAVLRGPMDSDDSHGSLRLSQLGNVTVVQKGERDILSNGQQVLVCSQEGSSRRCGGQGDLLSGS
 LGVLVHWALLAGPQKTNGSSPLLVAAFGACSLTRQCNHQAFQKHGRSTTTSDMIAEVGAAFSKLFET

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001242881

ORF Size: 1041 bp

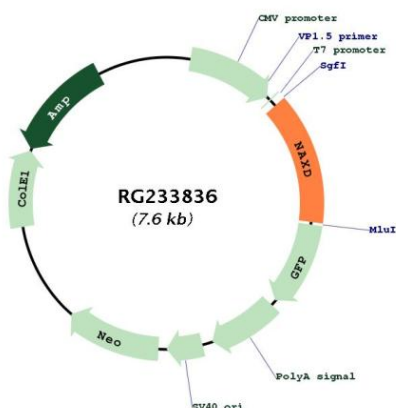
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_001242881.2
RefSeq Size:	2620 bp
RefSeq ORF:	1044 bp
Locus ID:	55739
UniProt ID:	Q8IW45
Cytogenetics:	13q34
Protein Families:	Transmembrane
Gene Summary:	Catalyzes the dehydration of the S-form of NAD(P)HX at the expense of ATP, which is converted to ADP. Together with NAD(P)HX epimerase, which catalyzes the epimerization of the S- and R-forms, the enzyme allows the repair of both epimers of NAD(P)HX, a damaged form of NAD(P)H that is a result of enzymatic or heat-dependent hydration.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG233836