OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC331910

CARKD (NAXD) (NM_001242881) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: CARKD (NAXD) (NM_001242881) Human Untagged Clone

Tag: Tag Free

Symbol: CARKD

Synonyms: CARKD; LP3298; PEBEL2

Vector: pCMV6-Entry (PS100001)

Fully Sequenced ORF:

>SC331910 representing NM_001242881.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

ATGGTCACACGCGCGGGGGCCGGAACTGCCGTCGCCGGCGCGGTCGTTGTCGCATTGCTCTCGGCCGCA
CTCGCGCTGTACGGGCCGCCACTGGACGCAGTTTTAGAAAGAGCGTTTTCGCTACGTAAAGCACATTCG
ATAAAGGATATGGAAAATACTTTGCAGCTGGTGAGAAATATCATACCTCCTCTGTCTTCCACAAAGCAC
AAAGGGCAAGATGGAAGAATAGGCGTAGTTGGAGGCTGTCAGGAGTACACTGGAGCCCCATATTTTGCA
GCAATCTCAGCTCTCAAAGTGGGCGCAGACTTGTCCCACGTGTTCTGTGCCAGTGCGGCCGCACCTGTG
ATTAAGGCCTACAGCCCGGAGCTGATCGTCCACCCAGTTCTTGACAGCCCCAATGCTGTTCATGAGGTG
GAGAAGTGGCTGCCCCGGCTGCATGCTCTTGTCGTAGGACCTGGCTTGGGTAGAGATGATGCGCTTCTC
AGAAATGTCCAGGGCATTTTGGAAGTGTCAAAGGCCAGGGACATCCCTGTTGTCATCGACGCGGATGGC
CTGTGGCTGGTCGCTCAGCAGCCGGCCCTCATCCATGGCTACCGGAAGGCTGTGCTCACTCCCAACCAC
GTGGAGTTCAGCAGACTGTATGACGCTGTGCTCAGAGGCCCTATGGACAGCGATGACAGCCATGGATCT
GTGCTAAGACTCAGCCAAGCCCTGGGCAACGTGACGGTGGTCCAGAAAGGAGAGCGCGACATCCTCTCC
AACGGCCAGCAGGTGCTTGTGTGCAGCCAGGAAGGCAGCAGCCGCAGGTGTGGAGGGCAAGGGGACCTC
CTGTCGGGCTCCCTGGGCGTCCTGGTACACTGGGCGCTCCTTGCTGGACCACAGAAAACAAATGGGTCC
AGCCCTCTCCTGGTGGCCGCGTTTGGCGCCTGCTCTCTCACCAGGCAGTGCAACCACCAAGCCTTCCAG
AAGCACGGTCGCTCCACCACCACCTCCGACATGATCGCCGAGGTGGGGGCCGCCTTCAGCAAGCTCTTT
GAAACCTGA

Restriction Sites: SgfI-MluI

ACCN: NM_001242881

Insert Size: 1044 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).

View online »

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_001242881.1
RefSeq Size:	2620 bp
RefSeq ORF:	1044 bp
Locus ID:	55739
UniProt ID:	Q8IW45
Cytogenetics:	13q34
Protein Families:	Transmembrane
MW:	36.6 kDa
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] Transcript Variant: This variant (2) uses an alternate splice site that causes a frameshift in the 3' coding region, compared to variant 1. The encoded isoform (b) has a distinct and shorter C-terminus, compared to isoform a.