

Product datasheet for SC313265

CARKD (NAXD) (NM_018210) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CARKD (NAXD) (NM_018210) Human Untagged Clone
Tag:	Tag Free
Symbol:	CARKD
Synonyms:	CARKD; LP3298; PEBEL2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_018210 edited

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ATGGTCACACGCGCGGGGCCGGAAGTCCGTCGCGCGCGGTCGTTGTGCGATTGCTC
TCGGCCGCACTCGCGCTGTACGGCCGCCACTGGACGCACTTTAGAAAGAGCGTTTTCG
CTACGTAAGACACATTTCGATAAAGGATATGGAATACTTTGCAGCTGGTGAGAAATATC
ATACCTCTCTGTCTTCCACAAAGCACAAAGGGCAAGATGGAAGAATAGGCGTAGTTGGA
GGCTGTGAGGAGTACACTGGAGCCCCATATTTGCAGCAATCTCAGCTCTCAAAGTGGGC
GCAGACTTGTCCACGTGTTCTGTGCCAGTGCGGCCGCACCTGTGATTAAGGCCTACAGC
CCGGAGCTGATCGTCCACCCAGTTCTTGACAGCCCAATGCTGTTTCATGAGGTGGAGAAG
TGGCTGCCCGGCTGCATGCTCTTGTCTAGGACCTGGCTGGGTAGAGATGATGCGCTT
CTCAGAAATGTCCAGGGCATTGGAAGTGTCAAAGGCCAGGGACATCCCTGTTGTCATC
GACGCGGATGGCCTGTGGCTGGTCGCTCAGCAGCCGGCCCTCATCCATGGCTACCGGAAG
GCTGTGCTCACTCCCAACCACGTGGAGTTCAGCAGACTGTATGACGCTGTGCTCAGAGGC
CCTATGGACAGCGATGACAGCCATGGATCTGTGCTAAGACTCAGCCAAGCCCTGGGCAAC
GTGACGGTGGTCCAGAAAGGAGAGCGCGACATCCTCTCCAACGGCCAGCAGGTGCTTGTG
TGCAGCCAGGAAGGCAGCAGCCGAGGTGTGGAGGGCAAGGGGACCTCCTGTGCGGCTCC
CTGGGCGTCTGGTACACTGGGCGCTCCTTGTGGACCACAGAAAACAAATGGGGGCATA
TCAGACTTGAAATTGACAATTTGGGGTCTGAGATTGAAACAGGAGTCAAAACCAGAGCC
CAGGGTAGCTGCGGCCCCCGACACGACGCCCCTTCCCCACACCTCCTGTGTCCTCC
TCTCCGAGGTCCAGCCCTCTCCTGGTGGCCGCGTTTGGCGCCTGCTCTCTCACCAGGCA
GTGCAACCACCAAGCCTTCCAGAAAGCAGGTGCTCCACCACACCTCCGACATGATCGC
CGAGGTGGGGGCGCCTTCAGCAAGCTCTTTGA
  
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Restriction Sites:	Please inquire
ACCN:	NM_018210
Insert Size:	2600 bp


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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:	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_018210.1.
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:	<u>NM_018210.1, NP_060680.1</u>
RefSeq Size:	2659 bp
RefSeq ORF:	1173 bp
Locus ID:	55739
UniProt ID:	<u>Q8IW45</u>
Cytogenetics:	13q34
Domains:	UPF0031
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] Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a).