

Supporting Information

Low-Spin Heme b_3 in the Catalytic Center of Nitric Oxide Reductase from *Pseudomonas nautica*[†]

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[†] This work was supported in part by funds from PDTC/QUI/64638/2006 grant (I.M.),
SFRH/BPD/14863/2003 (C.G.T.), SFRH/BD/17840/2004 (C.E.M.), SFRH/BD/39009/2007 (A.G.D.)
and National Institutes of Health grant GM 47295 (B.H.H.)

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(A)

atggccgagcgcctttacccaaaagcatggccaggaacatatatctggggggaagtgccttc
M A E R F T K S M A R N I Y L G G S A F
ttcgtcctgctggttcctggccctgacttttgacactcagctgcgtgctatgcccgagcgg
F V L L F L A L T F D T Q L R A M P E R
gataaccgcgacgagctcaccgaacaggtggtgcgcgccaaacatctgtgggaagagaac
D N R D E L T E Q V V R G K H L W E E N
aactgtgtcggttgtcattccatcaggggccaagggcgttacttcgctcccgaactggcc
N C V G C H S I R G E G A Y F A P E L A
aacgtggttgaccgccgtggcggcggtgatactgaggtcttcaaggcatacatgaaagcc
N V F D R R G G G D T E V F K A Y M K A
tggatgaacgccatgccacgaatattccgggcccggccagatgccggatttcaatctg
W M N A M P T N I P G R R Q M P D F N L
agtgattccgaggtcgaagacctggcgcgtttcctggagtggacatccaagatcgacgac
S D S E V E D L A A F L E W T S K I D D
aacggttgccaccaacatcgaggggtaa
N G W P P N I E G -

(B)

atgaaatacgaatctcaaagggctcgccatgcctacttcatctttgcctgattctgttt
M K Y E S Q R V A M P Y F I F A L I L F
gccggccagattgtgttcggcctgattctgggtctccagtagcttgcggtgatttcctg
A G Q I V F G L I L G L Q Y V V G D F L
tttccggaaattcctttcaacggttgcgcggatgggtgcataccaacctgctgattgtctgg
F P E I P F N V A R M V H T N L L I V W
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L L F G F M G A T Y Y M V P E E A Q T E
ctgcacagccccctgctggcgtggattctgttctgggtggtcgcggcagctggcacgctg
L H S P L L A W I L F W V F A A A G T L
accatcctgggctacctgtttgtggactacgccaccttggcagaagtccatgaacaag
T I L G Y L F V D Y A T L A E V T M N K
ttgctaccaccatgggcccggagttcctggagcaaccacgataaccaagatcggatc
L L P T M G R E F L E Q P T I T K I G I
gccgtggctcgtgggtggcgttccctctataacatcgccatgaccgcgctgaaaggccgcaag
A V V V V A F L Y N I A M T A L K G R K
accgtggtaacatcgtactgatcaccggcctggtaggcctggccgtattgtggctgttc
T V V N I V L I T G L V G L A V L W L F
tccttctacaacccccggcaacctggccaccgacaagtacttctgggtgggtttgtgggtccac
S F Y N P G N L A T D K Y F W W F V V H
ctgtgggtagaaggcgtgtgggaactgatcatgggtgccattctggcctatgtgttgatc
L W V E G V W E L I M G A I L A Y V L I
aagctcacagggtgtagaccgcgaagtaatcgagaagtggctgtacgtgatcatcgccatg
K L T G V D R E V I E K W L Y V I I A M
gcgctgattaccggcatcatcggtaccggcaccacttcttctggatcggggccgcccagag
A L I T G I I G T G G H H F F W I G P P E
tactggctctggctgggttctgtgttctctgcactggaaccgcttccggttcttcatgatg
Y W L W L G S V F S A L E P L P F F M M
gtggctcttcgccttcaacatgatcaaccgtcgccgcccgaaccacccgaacaaggccgcg
V V F A F N M I N R R R R N H P N K A A
atgctgtgggcatgggtacaaccgtcatggcattcctgggcgctggcgtgtggggcttc
M L W A M G T T V M A F L G A G V W G F
ctgcacaccctggctccgggtgaactggtagccatggtagccagattaccgcagcccac
L H T L A P V N W Y T H G S Q I T A A H
ggccacatggccttctatggcgcctacgtaatgattgtactgaccatcatttctctacgcc
G H M A F Y G A Y V M I V L T I I S Y A
atgccaatcatgcgcggtcgccccctacggcaacagcaataccgctcagattgtggaaatg
M P I M R G R P Y G N S N T A Q I V E M
tggggcttctggctcatgaccatctccatgggtgttcatcaccctgttctgaccgctgcc
W G F W L M T I S M V F I T L F L T A A
ggcgtcctgcagggttgggtgcagcgtattccggaaagcgggtgaagcgtgtccttcatg
G V L Q V W L Q R I P E S G E A L S F M
gcaggccaggatcagatcgccctgttctactggatgagatttgcgcgggtgccttcttc
A G Q D Q I A L F Y W M R F V A G A F F
atggccggcctgggtgtacttccggtagcttctttatcaagggcgaagcagcccggct
M A G L V V Y F G S F F I K G E A S P A
gaggaagtccgggggctgccacggcagacgcctga
E E V R G P A T A D A -

Figure S1. DNA sequence of the genes coding the small (A) and large (B) subunits of *Ps. nautica* cNOR and the corresponding deduced amino-acid sequence.

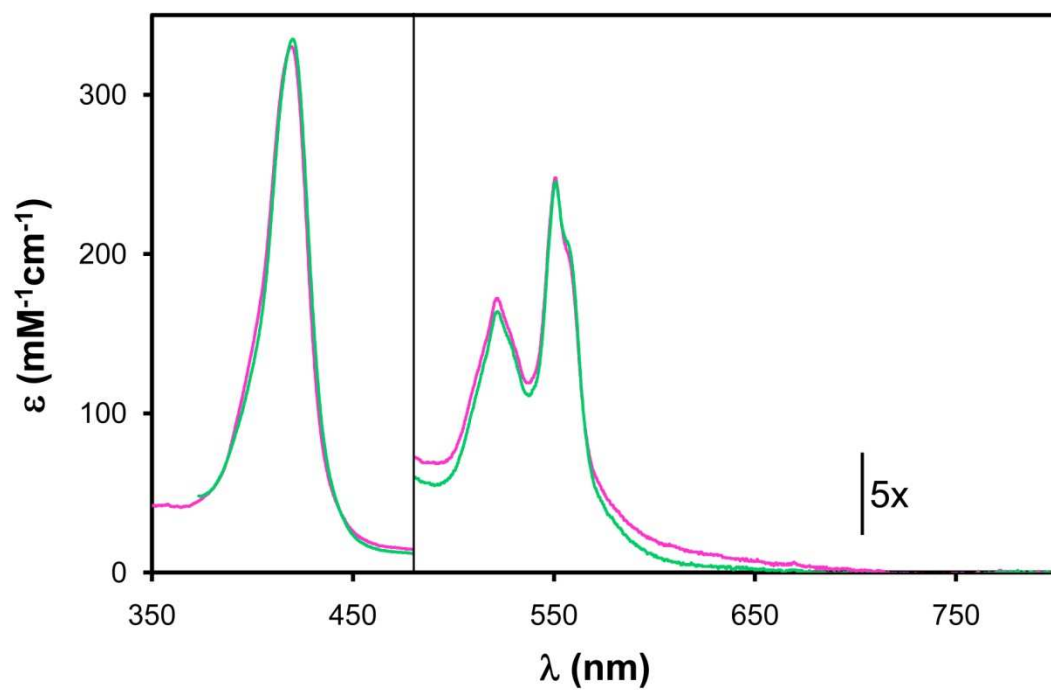


Figure S2. Comparison of the UV/visible spectra of the ascorbate plus PMS-reduced (pink) and dithionite-reduced (green) *Ps. nautica* cNOR in 100 mM KPBS, pH 7, 0.02% DDM, 0.01% PE.