SUPPLEMENTAL INFORMATION

Reoxidation of the Thiol-Disulfide Oxidoreductase MdbA by a Bacterial Vitamin K Epoxide Reductase in the Biofilm-forming Actinobacterium *Actinomyces oris*

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*Running title: *VKOR-catalyzed reoxidation of MdbA*

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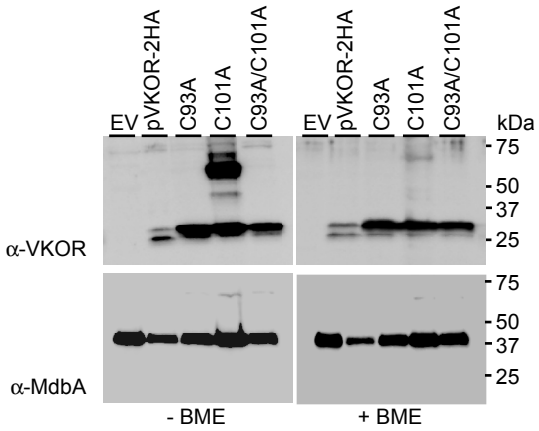

Figure S1: C93 is involved in the formation of MdbA-VKOR complex. Membrane fractions of *A. oris* strains pVKOR, C93A, C101A and C93A/C101A were prepared in the absence or presence of 10% ß-mercapthoethanol (BME). The protein samples were analyze by SDS-PAGE and immunoblotted with α-VKOR and α-MdbA.

Table S1. Primers used in this study

Primer	Sequence	Application
VKOR-HindIII-F	AAAAGCTTACGCCTCGGTAACGGTGG	pVKOR p*Mtb*VKOR
VKOR-HA-dn	GTCATAAGGATATTCCCCGAAGAGCCTGG CCAG	pVKOR
HA-up	GAATATCCTTATGACGTCCCAGAC	pVKOR p*Mtb*VKOR
HA-NdeI-R	AACATATGTCAAGCATAATCAGGTACATC	pVKOR p*Mtb*VKOR
VKOR-C65A-F	GCCGCACTGATCGGGATCCTC	pVKOR-C65A
VKOR-C65A-R	CACGGTGAGCAACCAGCCGAA	pVKOR-C65A
VKOR-C73A-F	GCCTGGGAGCTCATTACCGCC	pVKOR-C73A
VKOR-C73A-R	GGCGAGGATCCCGATCAGTGC	pVKOR-C73A
VKOR-C93A-F	GCCGACGTTAGCCCCCTG	pVKOR-C93A
VKOR-C93A-R	AACGAGCTCTGCATCCGGGTT	pVKOR-C93A
VKOR-C101A-F	TGTCCGCAGGGGACTCCCTCAA	pVKOR-C101A pVKOR-C93AC101A
VKOR-C101A-R	CCAGGGGGCTAACGTC	pVKOR-C101A
VKOR-C175A-F	GCTCCCTTCTGCATGGTCATC	pVKOR-C175A
VKOR-C175A-R	GAGCTTGCCGAAGGTCATGATGGA	pVKOR-C175A
VKOR-C178A-F	GCCATGGTCATCTGGTCCGTC	pVKOR-C178A
VKOR-C178A-R	GAAGGGACAGAGCTTGCCGAA	pVKOR-C178A
VKOR-C93AC101A-R	CCAGGGGGCTAACGTCGGCAAC	pVKOR-C93AC101A
LIC-VKOR-F	TACTTCCAATCCAATGCAATGTCGCGCATG CCC	pMCSG7-VKOR$_{1-56}$
LIC-VKOR-R	TTATCCACTTCCAATGTTATCACCGCTCGG CCCCGGA	pMCSG7-VKOR$_{1-56}$

VKOR-Mtb-R	GGCAGGTCGAGCTGCCATCGTCAGTCTCC TC	p*Mtb*VKOR
VKOR-Mtb-F	GAGGAGACTGACGATGGCAGCTCGACCT GCC	p*Mtb*VKOR
Mtb-HA-R	GTCATAAGGATATTCGATCAGCGTCGACC A	p*Mtb*VKOR
pVKORseq	TCCTGATAAGCCCACGAC	sequencing
pMCSG7seq	AATTGTGAGCGGATAACA A	sequencing
RT-16s-F	GTCGCTAGTAATCGCAGATCAG	qPCR
RT-16s-R	GGTGTTGCCGACTTTCATG	qPCR
RT-AoVKOR-F	ATTCCGGCGAGGACTTAGC	qPCR
RT-AoVKOR-R	TCGCAAACGAGCTCTGCATC	qPCR
RT-MtbVKOR-F	CTGATCGGCGGTGTGATCG	qPCR
RT-MtbVKOR-R	GGGTTGACATTGCATGACGG	qPCR