

Molecular Detection of a Potentially Toxic Diatom Species

Figure S1. List of oligonucleotides spotted on the MicroAqua-array-01.

MicroAqua-array-01 Probe Name			
POSITIVE_25_dT	NIT_VIT_Tag #19 (Fo)	CraHalEFas02	CraHalSITs02
AMP_COF_P29 (Fo)	NIT_VIT_Tag #19 (Re)	CraHalEFas03	CraHalSITs03
AMP_COF_P29 (Re)	PLE_LAE_Tag #2 (Fo)	CycMenEFs01	CraHalSITas01
AMP_COF_P22 (Fo)	PLE_LAE_Tag #2 (Re)	CycMenEFs02	CraHalSITas02
AMP_COF_P25 (Fo)	SUR_OVA_Tag #36 (Fo)	CycMenEFs03	CraHalSITas03
AMP_COF_P25 (Re)	SUR_OVA_Tag #36 (Re)	CycMenEFs04	EolMinSITs01
AMP_COF_P20 (Fo)	SUR_OVA_Tag #46 (Fo)	CycMenEFs05	EolMinSITs02
AMP_COF_P20 (Re)	SUR_OVA_Tag #46 (Re)	CycMenEFas01	EolMinSITs03
AMP_COF_P21 (Fo)	SUR_OVA_Tag #7 (Fo)	MayPerEFs01	EolMinSITs04
AMP_COF_P21 (Re)	SUR_OVA_Tag #7 (Re)	MayPerEFs02	EolMinSITas01
ACH_FLE_Tag #16 (Fo)	SUR_OVA_Tag_probe#36	MayPerEFs03	EolMinSITas02
ACH_FLE_Tag #16 (Re)	CAL_BAC_Tag_probe#23	MayPerEFas01	MayPerSITs01
ACH_FLE_Tag #5 (Fo)	GOM_ANG_Tag_probe#20	MayPerEFas02	MayPerSITs02
ACH_FLE_Tag #5 (Re)	MEL_VAR_Tag_probe#56	MayPerEFas03	MayPerSITs03
CAL_BAC_Tag #23 (Fo)	SUR_OVA_Tag_probe#46	NavVenEFs01	MayPerSITs04
CAL_BAC_Tag #23 (Re)	ACH_FLE_Tag_probe#11	NavVenEFs02	MayPerSITas01
GOM_ANG_Tag #8 (Fo)	MEL_VAR_Tag_probe#41	NavVenEFs03	MayPerSITas02
GOM_ANG_Tag #8 (Re)	NIT_VIT_Tag_probe#67	NavVenEFas01	NavVenSITs01
MEL_VAR_Tag #41 (Fo)	NIT_VIT_Tag_probe#7	NavVenEFas02	NavVenSITs02
MEL_VAR_Tag #41 (Re)	NIT_VIT_Tag_probe#65	NavVenEFas03	NavVenSITs03
MEL_VAR_Tag #54 (Fo)	SUR_OVA_Tag_probe#7	NitDisEFs01	NavVenSITs04
MEL_VAR_Tag #54 (Re)	ACH_FLE_Tag_probe#16	NitDisEFs02	NavVenSITas01
MEL_VAR_Tag #56 (Fo)	NIT_VIT_Tag_probe#19	NitDisEFs03	NavVenSITas02
MEL_VAR_Tag #56 (Re)	GOM_ANG_Tag_probe#8	NitDisEFs04	NitDisSITs01
NIT_COM_Tag #28 (Fo)	NIT_COM_Tag_probe#28	NitDisEFs05	NitDisSITs02
NIT_COM_Tag #28 (Re)	ACH_FLE_Tag_probe#5	NitDisEFas01	NitDisSITs03
NIT_COM_Tag #52 (Fo)	MEL_VAR_Tag_probe#54	NitPalEFs01	NitDisSITs04
NIT_COM_Tag #52 (Re)	NIT_COM_Tag_probe#55	NitPalEFs02	NitDisSITs05
NIT_COM_Tag #55 (Fo)	AMP_COF_P20	NitPalEFs03	NitDisSITas01
NIT_COM_Tag #55 (Re)	AMP_COF_21	NitPalEFs04	NitPalSITs01
NIT_DIS_P24 (Fo)	AMP_COF_22	NitPalEFs05	NitPalSITs02
NIT_DIS_P24 (Re)	AMP_COF_25	NitPalEFas01	NitPalSITs03
NIT_DIS_P27 (Fo)	AMP_COF_29	SurAngEFs01	NitPalSITs04
NIT_DIS_P27 (Re)	NIT_SIG_P21	SurAngEFs02	NitPalSITs05
NIT_SIG_P21 (Fo)	NIT_SIG_P26	SurAngEFs03	NitPalSITs06
NIT_SIG_P21 (Re)	AmpCofEFs01	SurAngEFas01	SurAngSITs01
NIT_SIG_P26 (Fo)	AmpCofEFs02	SurAngEFas02	SurAngSITs02
NIT_SIG_P26 (Re)	AmpCofEFs03	SurAngEFas03	SurAngSITs03
NIT_VIT_Tag #7 (Fo)	AmpCofEFas01	AmpCofSITs01	SurAngSITs04
NIT_VIT_Tag #7 (Re)	AmpCofEFas02	AmpCofSITs02	SurAngSITs05
NIT_VIT_Tag #65 (Fo)	AmpCofEFas03	AmpCofSITs03	SurAngSITas01
NIT_VIT_Tag #65 (Re)	CraHalEFs01	AmpCofSITs04	
NIT_VIT_Tag #67 (Fo)	CraHalEFs02	AmpCofSITs05	
NIT_VIT_Tag #67 (Re)	CraHalEFs03	AmpCofSITas01	
NIT_VIT_Tag #67 (Re)	CraHalEFas01	CraHalSITs01	

Figure S2. List of oligonucleotides spotted on the MicroAqua-array-02.

MicroAqua-array-02 Probe Name		
Cy3-Marker	NitDisSITas03/AmpCofSITas03	NitDisTag67F
Buffer	SurAngEFs05	NitDisTag7R
Empty	DunGS05_25_dT_dT_12.5 $\frac{1}{2}$ M	SurAngEFs01/NitDisEFs16/ NavVenEFas01
AmpCofTag7F	NitDisTag23F	NitPalEFas04/NavVenEFas04
AmpCofTag25	NitVitTag27F	AmpCofTag09
NitPalEFas02/NavVenEFas07	AmpCofEFas03	CIBacNavSSEFs04
SurAngEFas03/AmpCofEFas10	CycMenEFs03	CraHalSITs05
OrRaphexNaviculalesSITs02	EolMinSITas01	OrNavNavSSEFas02/NitPalEFs06
AmpCofSITas08	AmpCofSITs06	NitDisEFs03/MayPerEFs02
CIBacNavSSEFs09	CIBacNavSSEFs010	NitPalEFs03
NavVenSITas07	NavVenSITas03/CraHalSITs01	CIBacNavSSEFs01
NitDisSITs08/AmpCofSITas09	NitDisSITas02/AmpCofSITas02	euk 1209
SurAngEFas07	SurAngEFs04	AmpCofTag29R
Lambda	DunGS05_25_dT_dT_25 $\frac{1}{2}$ M	AmpCofP29Tag54R
AmpCofP20Tag41F	NitPalTag36F	AmpCof29Tag
NitVitTag7R	NitVitTag7	CraHalSITs04
NavVenEFas05/SurAngEFas02/ AmpCofEFas09	NavVenEFas02/NitDisEFas15	OrNavNavSSEFas01/NitPalEFs05
MayPerEFas03/NitDisEFas14	NitPalEFas01/NavVenEFas08	NitDisEFs02/MayPerEFs01
EolMinSITas02	NitPalSITas11	NitPalEFs02
AmpCofSITas07	CIBacNavSSEFs06	NavVenSITs02/CraHalSITs09
CIBacNavSSEFs08	CraHalSITas06	euk 328
NavVenSITas06	OrNavNavSSEFs02	
NitDisSITs07/AmpCofSITs03	NitDisEFas08/SurAngEFas06/ AchMinEFas02/MayPerEFas06	
SurAngEFas05/AchMinEFas05/ NitPalEFas10	NitPalEFas08	
POSITIVE_25_dT_12.5 $\frac{1}{2}$ M	CIBacNavSSEFs03	
NitDisTag46R	DunGS05_25_dT_dT_50 $\frac{1}{2}$ M	
AmpCofTagP29	AmpCofTag5R	
NitDisEFas04/CraHalEFas05	AmpCofEFas02	
NavVenEFas05/SurAngEFas02/ AmpCofEFas09	CycMenEFs02	
NitVitSIT01	NavVenSITas10	
AmpCofSITas06	NavVenSITs01/CraHalSITas08	
CIBacNavSSEFs03	CraHalSITas05	
NavVenSITas05	OrNavNavSSEFs01	
NitDisSITs06/AmpCofSITas05	NitDisEFas07/SurAngEFs01/ AchMinEFas03/MayPerEFas05	
SurAngEFas04/AchMinEFas04/ NitPalEFas09	NitPalEFas07	
POSITIVE_25_dT_25 $\frac{1}{2}$ M	DunGS02_25_dT_dT_12.5 $\frac{1}{2}$ M	
CraHalTag23R	NitDisTag67R	
AmpCofP20Tag221R	NitPalTag23	
CraHalEFs02/NavVenEFs07	NavVenEFas09/AmpCofEFas01/ CraHalEFas01	
MayPerEFas02/NitDisEFas13	NitPalEFas05/AmpCofEFas11	
EolMinSITs02	OrRaphSITs01	
AmpCofSITs08	CIBacNavSSEFs05	
CIBacNavSSEFs012	CraHalSITas04	
NavVenSITs05	CIBacNavSSEFs013	
NitDisSITas04/AmpCofSITas04	NitDisEFas06/AchMinEFas01/ MayPerEFas04	
SurAngEFs06	NitPalEFas06	
POSITIVE_25_dT_50 $\frac{1}{2}$ M	CIBacNavSSEFs02	
AmpCofTag46F	DunGS02_25_dT_dT_25 $\frac{1}{2}$ M	
NavVenTag55	AmpCofP20F	
NavVenEFas03	AmpCofTag	
SurAngEFs01/NitDisEFs16/ NavVenEFas01	CycMenEFs01	
AmpCofTag10	NavVenSITas09	
AmpCofSITs07	CraHalSITs06	
CIBacNavSSEFs011	OrNavNavSSEFas03/NitPalEFs07	
NavVenSITs04/CraHalSITs02	NitDisEFs04/MayPerEFs03	
	NitPalEFs04	
	DunGS02_25_dT_dT_50 $\frac{1}{2}$ M	

Table S1. Sequences of oligonucleotide probes spotted on microarray slides, recognizing *Amphora coffeaeformis* marker genes.

Marker Gene	Probe Name	Probe Sequence 5' → 3'	
Elongation Factor gene (eEF1-a)	Sense strand	AmpCofEFs01	GTTGACCTTCTCATCCTTGGCAATACC
		AmpCofEFs02	GGTATTGCCAAGGATGAGAAGGTCAAC
		AmpCofEFs03	GACCAACGGAGTTACCGGGTCCGGCGG
	Antisense strand	AmpCofEFas01	GGTTGACCTTCTCATCCTTGGCAATACC
		AmpCofEFas02	GGCTTGAGGACACCGGGGTGCTCCTGA
		AmpCofEFas03	GTCATCTTGCAGGCAACCTTGGCGGTAC
Silicic Acid Transporter gene (SIT)	Sense strand	AmpCofSITs06	GCTGTCACTCTTGCTGCCATCTTTGATGATA
		AmpCofSITs07	CCCCATTGCCTCTGTTCTCTTGTGCTCTT
		AmpCofSITs08	GGTCATTATTGGTATGTTGGAAGGTATGCAAATTGCGT
		NitDisSITs07/AmpCofSITs03	AATCTCTTCTTCTGGGGACGATGCCTCTTCTCT
	Antisense strand	AmpCofSITas06	AGAACAGAGGCAATGGGGGGAACACCATCCC
		AmpCofSITas07	GAACACCATCCCAGACGGCAGTCTTATCATCA
		AmpCofSITas08	CCATGAAAAAGAGCAACAAGAGAACAGAGGCAAT
		NitDisSITas02/AmpCofSITas02	GCAAAAGCACACGACGGCGAAAGAGAAG
		NitDisSITas03/AmpCofSITas03	AGAAGAAGAGATTGGCCACGGCACTGC
		NitDisSITas04/AmpCofSITas04	AAGACAATTCCCTTGGGGATTCCCTCCCA
		NitDisSITas06/AmpCofSITas05	CACCATGAGCACTCTTCAACGAACAAACCAC
		NitDisSITas08/AmpCofSITas09	GCTGTTGCCAAGATCCGCGAGTCGGAA

Colour code of oligonucleotide probes:

Species-specific probe
Probe recognizing two species

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