

**S1 Table.** List of fungal strains.

<b>Species</b>	<b>Isolate</b>	<b>Host</b>	<b>Origin</b>	<b>Date isolated</b>	<b>Source</b>
V.dahliae	12008	Strawberry	Kent, UK	1985	Laboratory stock
V.dahliae	12061	Strawberry	Lenham, UK	1986	Laboratory stock
V.dahliae	12062	Strawberry	Hampshire, UK	1965	Laboratory stock
V.dahliae	12064	Chrysanthemum	Bristol, UK	1968	Laboratory stock
V.dahliae	12065	Potato	Canada, USA	1969	Laboratory stock
V.dahliae	12067	Tomato	Dorset, UK	1971	Laboratory stock
V.dahliae	12068	Hops	UK	NA	Laboratory stock
V.dahliae	12072	Gerbera	Japan	1998	Laboratory stock
V.dahliae	12073	Chinese Cabbage	Japan	1998	Laboratory stock
V.dahliae	12086	Strawberry - petiole	Kent, UK	1998	Laboratory stock
V. dahliae	12158	Strawberry	Kent, UK Lincolnshire, UK	2000	Laboratory stock
V. dahliae	12161	Strawberry	UK	2000	Laboratory stock
V. dahliae	12251	Strawberry	Kent, UK	2012	Laboratory stock
V. dahliae	12252	Strawberry	Kent, UK	2012	Laboratory stock
V. dahliae	12253	Strawberry	Kent, UK	2012	Laboratory stock
V.dahliae	12213	Olive	NA	2002	Laboratory stock
V. albo- atrum	11001	Hop	Kent, UK	1987	Laboratory stock
V. albo- atrum	11006	Hop	Kent, UK	1995	Laboratory stock
V. nubilum	15001	NA*	NA	NA	Laboratory stock
V. tricorpus	20001	NA	NA	1998	Laboratory stock
V. dahliae	<i>Δfrq_12008</i>	-	-	-	This study
V. dahliae	<i>Δfrq_12253</i>	-	-	-	This study
V. dahliae	<i>Δwc1_12253</i>	-	-	-	This study
N. crassa	<i>30-7 bd a</i>	-	NA	NA	S. Crosthwaite

**S2 Table.** List of primers.

<b>Organism</b>	<b>Target</b>	<b>Gene name</b>	<b>Name</b>	<b>Sequence (5' to 3')</b>	<b>Length (bp)</b>	<b>Sequence reference</b>
V.dahliae	Housekeeping	Elongation factor alpha	EFA1-F	TACAACCCCAAGACTGTTCGC	104	[112]
V.dahliae	Housekeeping		EFA1-R	TCCTTCTCCCAGCCCTTGTA		
V.dahliae	Housekeeping	Tubuline Beta Chain	VdTbc-F	TTTCCAGATCACCCACTCC	111	[49, 113]
V.dahliae	Housekeeping		VdTbc-R	ACGACCGAGAAGGTAGCC		
V.dahliae	Gene of interest	frq	VdFrq-F	GTGACGGAGAAGAGCACCAA	92	This study
V.dahliae	Gene of interest		VdFrq-R	TCGCTACTGAATCGCGTACC		
V.dahliae	Gene of interest	Wc-1	VdWc1-F	CAACACCCTGACCGAGTTCA	91	This study
V.dahliae	Gene of interest		VdWc1-R	ATTGGCGTCGAGAATCTGCA		
V.dahliae	Gene of interest	cry	Vdcry_F	GAAGGGTGGTGAGGTGGATG	177	This study
V.dahliae	Gene of interest		Vdcry_R	TTCACCATCTCCTCGTGAC		
V.dahliae	Gene of interest	ccg16	Vdccg16_F	CCCAAGGCATCACAGTCGAA	118	This study
V.dahliae	Gene of interest		Vdccg16_R	GCACCATTGTTGTTGCCGAT		
V.dahliae	Gene of interest	vvd	Vdvvd_F	GATGTTTCATGAACGGCGAGC	135	This study
V.dahliae	Gene of interest		Vdvvd_R	GTCAGCCGATCTTCTCCTCG		
N.crassa	Housekeeping	TATA binding box protein	NcTbp-F	GGTGCCAAGTCCGAAGATGA	136	[114]
N.crassa	Housekeeping		NcTbp-R	TGGGGAACCTTGATGTCGCAA		
N.crassa	Housekeeping	Beta-tubulin	NcBtl-F	CCACTTCTTCATGGTCGGCT	103	[114]
N.crassa	Housekeeping		NcBtl-R	CTTGGGGTTCGAACATCTGCT		
N.crassa	Gene of interest	Frequency	NcFrq-F	TCGACATCGCAGAGGAGAAA	66	[115]
N.crassa	Gene of interest		NcFrq-R	CAACGAAACCCAGACGAGT		

	<b>Primer pair</b>	<b>DNA Template</b>	<b>Overhang 5' - 3'</b>	<b>Sequence 5' - 3'</b>	<b>Length (bp)</b>	<b>Sequence reference</b>	
USER-Brick	B1-F	pRF-HU2	AAGGTTTAAU	TCACTGGCCGTCGTTTTA	2165	[56]	
	B1-R		ATTTAAAGAU	CCGCGCGAGC			
	HygR1-F	pRF-HU2	ACGCAATACU	AGTCGGGGGATCCTCTAG	2480	[56]	
	HygR1-R		ACTAGGTCAU	GGGCCCATCGATGATCAG			
	B2-F	pRF-HU2	ATCTTTAAAU	GGAGTGTCTTCTTCCCA	1658	[56]	
	B2-R		AATACGACCU	TCGTGACTCCCTTAATTCT			
	HRFrq1-F	<i>V. dahliae</i>		AGGTCGTATU	GAGACTTCAGTAAATTGTGGTTGT	1600	This study
	HRFrq1-R			AGTATTGCGU	AGAGTCGTTGTCGTCGGG		
	HRFrq2-F	<i>V. dahliae</i>		ATGACCTAGU	GATCACATTTTGCATCTTTCGGG	1565	This study
HRFrq2-R			ATTAAACCTU	GTCACCATGACTCGCTACAA			
Plasmid validation	B1.B2-F	pEcFrq-D1		TGTCATACTACTTGTCCGCC	461	This study	
	B1.B2-R			CTGCCTGTTCCAAAGGTCCT			
	B1.B2.F1.H-F	pEcFrq-D1		ATGTTGCTGTCTCCAGGTC	3600	This study	
	B1.B2.F1.H-R			CCTATATCGCCGACATCACC			
	H.F2.B1-F	pEcFrq-D1		GTATGACCGGGTCGTTCACT	2190	This study	
	H.F2.B1-R			CTGGCTGGTGGCAGGATA			
<i>V. dahliae</i> mutants validation	TestHygr_F	$\Delta$ frq mutants		ATTTGTGTACGCCCAGAGT	624	This study	
	TestHygr_R			AGACCTGCCTGAAACCGAAC			
	TestFrq-F	$\Delta$ frq mutants		CCATCTTCGGCGCATTGAG	563	This study	
	TestFrq-R			ACTGTGAGGAATTGCTGCGA			
	FrqUS_Hygr-F	$\Delta$ frq mutants		AGTTCCACTCGTTCGCTCTG	2182	This study	
	FrqUS_Hygr-R			CGCCTATATCGCCGACATCA			

**S3 Table.** List of significantly enriched GO terms related to biological processes in *Δfrq\_12253* versus the WT\_12253 strain in light and dark.

GO.ID	Biological process term	Δfrq vs WT in D		Δfrq vs WT in L	
		UP	DOWN	UP	DOWN
GO:0006412	translation	5.40E-11		2.00E-16	
GO:0006414	translational elongation	3.40E-05			
GO:0008152	metabolic process	0.022		0.01	
GO:0045039	protein import into mitochondrial inner membrane	0.024			
GO:0009306	protein secretion	0.024		0.032	
GO:0006228	UTP biosynthetic process	0.024		0.032	
GO:0006241	CTP biosynthetic process	0.024		0.032	
GO:0046836	glycolipid transport	0.024			
GO:0006183	GTP biosynthetic process	0.024		0.032	
GO:0009116	nucleoside metabolic process	0.042			
GO:0033566	gamma-tubulin complex localization			0.032	
GO:0055114	oxidation-reduction process		2.90E-05		8.20E-05
GO:0007623	circadian rhythm		0.016		0.0221
GO:0019427	acetyl-CoA biosynthetic process from acetate		0.016		
GO:0006788	heme oxidation		0.016		0.0221
GO:0009448	gamma-aminobutyric acid metabolic processes		0.031		
GO:0006537	glutamate biosynthetic process		0.032		0.0437
GO:0001682	tRNA 5'-leader removal		0.032		
GO:0009450	gamma-aminobutyric acid catabolic processes		0.032		
GO:0072488	ammonium transmembrane transport		0.047		
GO:0006817	phosphate ion transport				0.0046
GO:0042128	nitrate assimilation				0.0046
GO:0006810	transport				0.0129
GO:0042554	superoxide anion generation				0.0221
GO:0009405	pathogenesis				0.0221
GO:0006809	nitric oxide biosynthetic process				0.0221
GO:0000160	phosphorelay signal transduction system				0.042
GO:0009395	phospholipid catabolic process				0.0437
GO:0006730	one-carbon metabolic process				0.0437

**S4 Table.** Expression of putative core clock genes, photoreceptor- and TF-encoding genes in WT 12253 and *Δfrq\_12253* in both light and dark conditions. Transcripts displaying a Log fold change (LFC) >1 were classified as pink, dark red if the LFC > 2, light green if the LFC < -1 and dark green if the LFC < -2. Yellow boxes indicate *p*- values < 0.05.

Transcript_id	baseMean	L/D in V.d 12253		L/D in <i>Δfrq_12253</i>		Δfrq/WT in D		Δfrq/WT in L		Gene	Antismash	SM	Interpro
		LF C	p- value	LF C	p- value	LF C	p- value	LF C	p- value				
<b>Clock oscillator genes</b>													
VDAG_JR2_C hr6g03850	2113.8 9	- 0.07	- 0.51	- 0.21	- 0.10	- 0.16	- 0.08	- 0.45	- 0.00	<i>fwd-1</i>	cluster_63	cf_putative	F-box; WD40 repeat
VDAG_JR2_C hr2g01990	1748.3 8	- 0.17	- 0.23	- 0.16	- 0.47	- 0.30	- 0.02	- 0.63	- 0.00	<i>wc-1</i>			Zinc finger, GATA-type ATP-binding; Helicase; rRNA-processing arch, Ski2
VDAG_JR2_C hr4g00070	1474.0 5	- 0.01	- 0.94	- 0.11	- 0.66	- 0.06	- 0.74	- 0.04	- 0.85	<i>frh</i>			LOV
VDAG_JR2_C hr3g10380	1236.8 7	- 0.05	- 0.83	- 0.97	- 0.00	- 0.53	- 0.00	- 0.49	- 0.01	<i>vvd</i>			Zinc finger, GATA-type
VDAG_JR2_C hr7g03830	698.85	- 0.10	- 0.47	- 0.23	- 0.17	- 0.68	- 0.00	- 0.82	- 0.00	<i>wc-2</i>			
<b>Photoreceptors genes</b>													
VDAG_JR2_C hr7g03830	698.85	- 0.10	- 0.47	- 0.23	- 0.17	- 0.68	- 0.00	- 0.82	- 0.00	<i>wc-2</i>			Zinc finger, GATA-type
VDAG_JR2_C hr2g01990	1748.3 8	- 0.17	- 0.23	- 0.16	- 0.47	- 0.30	- 0.02	- 0.63	- 0.00	<i>wc-1</i>			Zinc finger, GATA-type
VDAG_JR2_C hr3g10380	1236.8 7	- 0.05	- 0.83	- 0.97	- 0.00	- 0.53	- 0.00	- 0.49	- 0.01	<i>vvd</i>			LOV
VDAG_JR2_C hr1g22390	1602.1 2	- 0.05	- 0.77	- 0.04	- 0.89	- 0.23	- 0.07	- 0.14	- 0.36	<i>rgs-lov</i>			PAS

VDAG_JR2_C	-	-	-	-	-	-	-	-	-	cluster_			Photolyase/cryptochrome; FAD-binding
hr6g00620	191.19	0.07	0.82	0.03	0.95	0.35	0.09	0.25	0.29	<i>cry-1</i>	60	other	HK; PAS;
VDAG_JR2_C	1433.0	-	-	-	-	-	-	-	-	-	-	-	Phytochrome
hr4g09150	5	0.26	0.17	0.11	0.73	0.21	0.27	0.36	0.06	<i>phy</i>			DNA-photolyase;
VDAG_JR2_C	1376.5	-	-	-	-	-	-	-	-	-	-	-	FAD-binding
hr7g00170	9	0.06	0.68	0.14	0.41	0.01	0.92	0.21	0.07	<i>phr</i>			G-protein glucose receptor;
VDAG_JR2_C										<i>nop-1</i>			Rhodopsin
hr1g29230	614.73	0.56	0.18	0.31	0.63	0.65	0.09	0.40	0.36				
VDAG_JR2_C													
hr6g07410	386.51	0.56	0.00	0.19	0.53	0.40	0.02	0.77	0.00	<i>lov-u</i>			PAS
VDAG_JR2_C													Photolyase/cryptochrome; FAD-binding
hr1g17210	349.67	0.99	0.00	1.11	0.00	1.16	0.00	1.05	0.00	<i>cry-dash</i>	8	terpene	
<b>Transcription factors</b>													
VDAG_JR2_C													Zn2 Cys6;Fungal-specific TF
hr1g26850	91.41	1.03	0.00	0.19	0.72	0.93	0.00	0.09	0.81				
VDAG_JR2_C	27062.	-	-	-	-	-	-	-	-				Zinc finger, C2H2-type
hr5g05720	18	1.01	0.00	0.52	0.07	0.81	0.00	0.32	0.19				
VDAG_JR2_C	4202.9	-	-	-	-	-	-	-	-				Nucleic acid-binding proteins
hr2g04990	2	1.05	0.00	0.67	0.06	0.35	0.20	0.03	0.93				
VDAG_JR2_C													Zn2 Cys6;Fungal-specific TF
hr1g24030	47.75	1.23	0.00	0.53	0.17	0.20	0.52	0.50	0.12				
VDAG_JR2_C	1280.9	-	-	-	-	-	-	-	-				Zinc finger, C2H2-type
hr5g05660	8	1.33	0.00	0.75	0.01	0.01	0.98	0.58	0.01				
VDAG_JR2_C											cluster_	t1pks-nrps	
hr1g23950	945.69	1.68	0.00	0.69	0.24	0.13	0.81	0.87	0.05		14		Zn2 Cys6
VDAG_JR2_C													
hr4g03300	951.19	0.51	0.01	1.09	0.00	0.35	0.06	0.93	0.00				Zn2 Cys6

VDAG_JR2_C	9249.7	-								cluster_68	cf_putative	Zinc finger, C2H2-type;Fungal TF
hr6g08330	7	0.76	0.00	0.45	0.01	1.27	0.00	0.95	0.00			
VDAG_JR2_C										cluster_19	cf_putative	Zn2 Cys6 Zinc finger, C2H2-type
hr8g07070	412.26	0.40	0.18	0.18	0.71	1.13	0.00	0.55	0.07			
VDAG_JR2_C	36396.	-								cluster_45	cf_putative	Zn2 Cys6 bZIP
hr3g04200	10	0.91	0.00	0.38	0.13	1.11	0.00	0.58	0.00			
VDAG_JR2_C	3358.8									cluster_19	cf_putative	Zn2 Cys6 Fungal-specific TF C2H2 and C2HC zinc fingers
hr2g11050	9	0.59	0.00	0.47	0.01	1.10	0.00	0.97	0.00			
VDAG_JR2_C										cluster_45	cf_putative	Zn2 Cys6 Zn2/Cys6 DNA-binding domain
hr2g03990	18.20	0.77	0.11	0.07	0.94	1.31	0.00	0.48	0.32			
VDAG_JR2_C										cluster_45	cf_putative	Zn2 Cys6 Zn2 Cys6
hr8g00200	52.88	1.92	0.00	0.17	0.82	1.55	0.00	0.54	0.22			
VDAG_JR2_C	23846.	-								cluster_45	cf_putative	HLH Zn2 Cys6
hr7g07100	48	1.01	0.00	0.72	0.02	1.11	0.00	0.83	0.00			
VDAG_JR2_C	1535.2									cluster_45	cf_putative	Zn2 Cys6 Zn2 Cys6
hr5g05400	8	0.24	0.12	0.33	0.11	0.93	0.00	1.02	0.00			
VDAG_JR2_C										cluster_45	cf_putative	Zn2 Cys6 Zn2 Cys6;Fungal-specific TF
hr1g03770	112.66	0.86	0.00	0.28	0.60	0.88	0.00	1.47	0.00			
VDAG_JR2_C	1305.6									cluster_45	cf_putative	HLH
hr1g10470	0	0.29	0.18	0.11	0.78	0.85	0.00	1.25	0.00			
VDAG_JR2_C	2291.0									cluster_45	cf_putative	Zn2 Cys6
hr4g09890	0	0.17	0.38	0.15	0.62	0.72	0.00	1.03	0.00			
VDAG_JR2_C	3513.4									cluster_45	cf_putative	Zn2 Cys6
hr3g08070	5	0.75	0.00	0.29	0.45	0.67	0.00	1.13	0.00			
VDAG_JR2_C										cluster_45	cf_putative	Zn2 Cys6 Zn2 Cys6;Fungal-specific TF
hr1g27300	905.11	1.00	0.00	0.05	0.87	0.29	0.05	1.34	0.00			
VDAG_JR2_C										cluster_45	cf_putative	HLH
hr5g00990	503.03	0.58	0.05	0.24	0.62	0.34	0.25	1.16	0.00			
VDAG_JR2_C										cluster_45	cf_putative	Zn2 Cys6
hr7g02150	631.00	0.30	0.15	0.37	0.16	0.43	0.02	1.10	0.00			
VDAG_JR2_C										cluster_45	cf_putative	Zn2 Cys6
hr1g22480	307.59	0.20	0.36	0.30	0.25	0.56	0.00	1.06	0.00			





**S5 Table.** Most differentially expressed genes in *Δfrq\_12253*. Transcripts displaying a Log fold change (LFC) >1 were classified as pink, dark red if the LFC > 2, light green if the LFC < -1 and dark green if the LFC < -2. Yellow boxes indicate *p*- values < 0.05.

Transcript_id	baseMean	L/D in V.d 12253		L/D in Δfrq_12 253		Δfrq/WT in D		Δfrq/WT in L		Antismash	SM	TFs	Interpro
		LF C	p-val ue	LF C	p-val ue	LF C	p-val ue	LF C	p-val ue				
<b>Top Up-regulated genes</b>													
VDAG_JR2_Ch 7g10300	121.36	0.6 0	0.1 0	0.1 6	0.6 9	3.8 9	0.0 0	3.4 5	0.0 0	cluster_ 78	nrps		hypothetical protein
VDAG_JR2_Ch 4g11240	55.89	0.0 5	0.9 4	1.2 0	0.0 5	1.9 8	0.0 0	3.1 3	0.0 0	cluster_ 47	t1pks		tubulin-tyrosine ligase
VDAG_JR2_Ch 7g10290	151.84	0.5 9	0.1 6	0.2 1	0.7 3	3.4 8	0.0 0	3.0 9	0.0 0	cluster_ 78	nrps		hypothetical protein
VDAG_JR2_Ch 7g02720	1334.2 9	0.0 8	0.8 7	0.5 3	0.2 9	2.3 8	0.0 0	2.9 9	0.0 0				Integral membrane protein
VDAG_JR2_Ch 2g00550	10.31	0.3 9	0.5 1	1.3 4	0.0 2	1.9 2	0.0 0	2.8 7	0.0 0	cluster_ 17	t1pks		FAD binding domain-containing protein
VDAG_JR2_Ch 8g11360	452.42	0.2 6	0.4 7	0.4 5	0.2 9	2.1 4	0.0 0	2.8 6	0.0 0				hypothetical protein
VDAG_JR2_Ch 2g00500	5.95	0.0 8	0.9 2	0.6 9	0.3 1	2.2 4	0.0 0	2.8 5	0.0 0	cluster_ 17	t1pks		hypothetical protein
VDAG_JR2_Ch 8g11370	1056.5 9	0.1 7	0.6 5	0.4 9	0.2 5	2.0 9	0.0 0	2.7 6	0.0 0				S-adenosyl-L-methionine-dependent methyltransferase
VDAG_JR2_Ch 2g00490	58.35	0.6 3	0.2 6	0.8 7	0.1 7	2.4 3	0.0 0	2.6 7	0.0 0	cluster_ 17	t1pks		serine 3-dehydrogenase

VDAG_JR2_Chr 7g10260	317.52	0.2 0	0.4 8	0.7 9	0.0 0	1.9 0	0.0 0	2.4 9	0.0 0	cluster_ 78	nrps		hypothetical protein
VDAG_JR2_Chr 7g02710	2265.5 6	0.8 0	0.0 0	0.1 2	0.8 1	1.4 9	0.0 0	2.4 2	0.0 0				Cytochrome
VDAG_JR2_Chr 1g24880	24.81	0.2 0	0.7 3	0.4 1	0.5 2	2.9 9	0.0 0	2.3 8	0.0 0				cerato-ulmin hydrophobin
VDAG_JR2_Chr 2g00510	2.81	0.2 7	0.6 5	0.3 0	NA	1.7 9	0.0 0	2.3 5	0.0 0	cluster_ 17	t1pks	Homeodo main-like	Myb-transcription protein
VDAG_JR2_Chr 1g23290	36.88	0.6 7	0.0 8	0.7 8	0.0 6	2.4 3	0.0 0	2.3 3	0.0 0	cluster_ 13	cf_puta tive		hypothetical protein S-adenosyl-L-methionine- dependent
VDAG_JR2_Chr 2g00520	69.36	0.1 5	0.7 7	0.8 7	0.0 8	1.2 9	0.0 0	2.3 2	0.0 0	cluster_ 17	t1pks	Winged helix	methyltransferase
VDAG_JR2_Chr 5g05550	22.44	0.7 0	0.0 6	0.6 6	0.1 0	0.9 4	0.0 0	2.3 0	0.0 0				hypothetical protein
VDAG_JR2_Chr 8g02470	55.11	0.1 6	0.7 7	2.0 7	0.0 0	0.3 8	0.4 0	2.2 8	0.0 0				mannose-6-phosphate isomerase
VDAG_JR2_Chr 2g02910	43.72	1.4 5	0.0 0	2.6 7	0.0 0	1.0 1	0.0 2	2.2 2	0.0 0				hypothetical protein
VDAG_JR2_Chr 1g27430	31.46	0.7 3	0.0 5	0.3 8	0.4 0	1.1 1	0.0 0	2.2 2	0.0 0				hypothetical protein
VDAG_JR2_Chr 8g11350	1851.5 3	0.1 1	0.8 0	0.0 1	0.9 9	2.0 6	0.0 0	2.1 8	0.0 0				Cytochrome
VDAG_JR2_Chr 7g10270	2637.4 5	0.2 8	0.3 0	0.1 0	0.8 3	2.3 5	0.0 0	2.1 7	0.0 0	cluster_ 78	nrps	bZIP	bZIP transcription factor



VDAG_JR2_Chr 1g23930	223.91	3.7 6	0.0 0	0.7 5	0.2 5	0.0 1	1.0 0	- -	3.0 2	0.0 0	cluster_ 14	t1pks- nrps	TOXD protein
VDAG_JR2_Chr 1g23890	459.89	3.5 8	0.0 0	0.6 0	0.3 6	0.0 1	0.9 9	- -	2.9 9	0.0 0	cluster_ 14	t1pks- nrps	hypothetical protein
VDAG_JR2_Chr 8g09780	57.25	1.7 0	0.0 0	0.2 0	0.8 1	1.0 7	0.0 1	- -	2.9 7	0.0 0			hypothetical protein
VDAG_JR2_Chr 1g23910	116.12	4.1 3	0.0 0	1.1 6	0.0 5	0.0 4	0.9 5	- -	2.9 3	0.0 0	cluster_ 14	t1pks- nrps	hypothetical protein
VDAG_JR2_Chr 1g23920	114.15	3.4 0	0.0 0	0.4 7	0.5 0	0.0 8	0.9 1	- -	2.8 6	0.0 0	cluster_ 14	t1pks- nrps	Alpha/Beta hydrolase
VDAG_JR2_Chr 1g23940	625.82	3.3 6	0.0 0	0.6 9	0.3 0	0.1 0	0.8 8	- -	2.5 8	0.0 0	cluster_ 14	t1pks- nrps	hypothetical protein
VDAG_JR2_Chr 2g03470	5765.1 5	0.9 8	0.0 1	0.1 9	0.7 8	1.3 7	0.0 0	- -	2.5 4	0.0 0			cytochrome P450 monooxygenase
VDAG_JR2_Chr 8g09260	36.24	1.0 8	0.0 2	0.2 9	0.7 1	1.6 6	0.0 0	- -	2.4 4	0.0 0			hypothetical protein
VDAG_JR2_Chr 6g03670	1016.6 8	1.9 9	0.0 0	0.1 5	0.8 2	4.2 7	0.0 0	- -	2.4 4	0.0 0	cluster_ 63	cf_puta tive	hypothetical protein
VDAG_JR2_Chr 1g22700	4387.4 6	0.4 6	0.0 7	0.3 4	0.3 7	1.5 8	0.0 0	- -	2.3 8	0.0 0			hypothetical protein

VDAG_JR2_Chr 4g04340	2563.0 3	- 1.1 9	0.0 0	0.3 7	0.5 5	- 3.8 7	0.0 0	- 2.3 2	0.0 0			hypothetical protein
VDAG_JR2_Chr 6g04130	796.94	0.5 8	0.1 1	0.0 9	0.9 1	1.7 9	0.0 0	2.2 8	0.0 0			hypothetical protein
VDAG_JR2_Chr 4g11840	41.01	1.1 0	0.0 0	0.0 1	0.9 9	1.1 5	0.0 0	2.2 7	0.0 0			hypothetical protein
VDAG_JR2_Chr 5g01890	247.82	1.5 6	0.0 0	0.1 6	0.7 5	0.4 9	0.0 7	2.2 2	0.0 0		Zn2/Cys6 -Fungal TF	Zn2-Cys6 transcription factor
VDAG_JR2_Chr 6g08940	153.16	1.2 2	0.0 1	0.4 2	0.5 6	1.3 8	0.0 0	2.1 9	0.0 0	cluster_ 69	cf_puta tive	cytochrome P450
VDAG_JR2_Chr 8g06660	13626. 04	0.0 0	0.9 9	0.6 8	0.0 6	1.4 5	0.0 0	2.1 4	0.0 0			Ammonium/urea transporter
VDAG_JR2_Chr 8g09770	50.00	1.0 5	0.0 1	0.3 6	0.5 8	0.7 2	0.0 7	2.1 3	0.0 0			hypothetical protein
VDAG_JR2_Chr 1g22660	1015.4 2	0.8 7	0.0 0	0.0 6	0.9 2	1.2 3	0.0 0	2.0 4	0.0 0			UDP-glucose 4-epimerase
VDAG_JR2_Chr 1g01960	4976.5 6	0.0 1	0.9 8	0.7 7	0.0 0	2.8 2	0.0 0	2.0 4	0.0 0			Frequency clock protein
VDAG_JR2_Chr 1g09750	2398.8 2	0.8 4	0.0 0	0.0 4	0.9 4	1.1 6	0.0 0	2.0 3	0.0 0			cholesterol oxidase

VDAG_JR2_Chr 6g06730	959.89	0.3 3	0.5 9	1.6 8	0.0 0	0.0 1	0.9 9	2.0 1	0.0 0	Protein of unknown function
VDAG_JR2_Chr 3g06750	104.25	- 1.2 8	0.0 1	0.3 0	0.7 1	2.7 7	0.0 0	1.2 0	0.0 1	hypothetical protein
VDAG_JR2_Chr 5g10060	42.49	- 0.4 6	0.3 9	0.1 7	0.8 4	2.3 0	0.0 0	1.6 7	0.0 0	hypothetical protein
VDAG_JR2_Chr 1g09640	1869.9 1	- 0.2 6	0.5 3	0.5 4	0.2 8	2.0 2	0.0 0	1.2 2	0.0 0	Integral membrane protein