GEO ID	Genotype	Tissue	Stage	Strain	
GSE7256	Nipponbare (S)	Leaf	Seedling Stage	FR13	
GSE18361	Nipponbare (S)	Root/leaf	Seedling Stage	Guy11	
CSE29209	Non-transgenic Taipei 309 (S)	Soudling	Sodling Store	DID 1	
USE20300	Transgenic line OX-Pi54 (R)	Seeding	Seeding Stage	rLr-1	
				FR13	
GSE30941	Nipponbare (S)	Leaf	Seedling Stage	CL367	
				BR29	
CSE20625	Nipponbare [Pia] (R)	Lasf	Equate L and Stage	$L_{20} = 0.6 + 1.27$	
G2E39033	Transgenic line OX-OsWRKY28 (S)	Lear	Fourth Leaf Stage	11100-137	
	IRBL18 (Pi9 NIL of LTH) (R)			СН63	
GSE41798	IRBL22 (Pi9 NIL of LTH) (R)	Leaf	Seedling Stage		
	LTH (S)				
CSE62802	Nipponbare (Pia) (R)	Leef	Equith Loof Stage	D01 15D	
USE02095	Nipponbare (S)	Leai	Fourth Lear Stage	ry1-13b	
CSE62804	Nipponbare (Pish) (R)	Loof	Equith Loof Stage	V.m.77	
USE02094	Nipponbare (S)	Leai	Fourth Lear Stage	к уи//	
CSE62905	Nipponbare (Pia) (R)	Poot	Equith Loof Stage	D01 15D	
USE02093	Nipponbare (S)	KUUL	Fourth Lear Stage	171-13D	
CSE62422	Nipponbare (Pia) (R)	T C	Equith Loof Stage	D01 15D	
GSE02422	Nipponbare (S)	Leai	Fourth Lear Stage	[71-1JD	

Table S1: Datasets used for Rice Blast analysis.

GEO ID	Genotype	Tissue	Stage	Strain
				PXO99A
				PXO99AME7
				PXO99AME5
				T7174
	Ning on barg (C)	Loof	14 Davia	PXO86
	Nippondare (S)	Leal	14 Days	BLS303
				PXO99AME1
				PXO99AME2
				PXO99A-2
CSE26272				МОСК
USE30272		Leaf		PXO99A
	IR24 (S)			PXO99AME7
				PXO99AME5
				T7174
			14 Dava	PXO86
			14 Days	BLS303
				PXO99AME1
				PXO99AME2
				PXO99A-2
				МОСК
	IR24 (S)			
GSE33411	IRBB5 (R)	Whole plants	2 Weeks	PXO86
	IRBB7 (R)			
GSE16793	Nipponbare (S)	Shoot	2 Weeks	PXO99A
GSE43050	IR24 (R)	Leaf	35 Days	PXO71
CSE62227	Osaba1-1 (R)	T C	6.5 Leaf	PVO00
G2E0333/	Nipponbare (S)	Leal	Stage	F AU77

Table S2: Datasets used for Bacterial blight analysis.

Locus id	WRKY name	Primer sequence
LOC_0s01g40260	OsWRKY77_qF	GAGGAAGTACGGCAAGAAGAT
	OsWRKY77_qR	CTCCACCCGCTTCTTCAC
LOC_Os01g51690	OsWRKY26_qF	GAGGTCGGACGATGAGATACT
	OsWRKY26_qR	CCGGTAGTAGTTCCTCGGATTA
LOC_Os01g53260	OsWRKY23_qF	GCAACGTGAAGAAGCAAGTG
	OsWRKY23_qR	AACTGGGAGAGGAACTGGA
LOC_0s03g21710	OsWRKY79_qF	GTTCATGCAGTGGGACGA
	OsWRKY79_qR	GTTTCCGCCGTCGTTCT
LOC_Os05g39720	OsWRKY70_qF	TACTCTTACACGAGCCAGCA
	OsWRKY70_qR	GGCTGCTCAAAGAACGACAT
LOC_Os05g45230	OsWRKY58_qF	CAGAAGGCCGTCAAGAACA
	OsWRKY58_qR	CAGGTTCTCTGTTGCAGTTTG
LOC_Os05g49620	OsWRKY19_qF	AGGTAGTGGCAGAGCCTAT
	OsWRKY19_qR	AGAAGTCGCTGCTGAACTG
LOC_0s06g44010	OsWRKY28_qF	TACGAGGGCGAGCACAA
	OsWRKY28_qR	CTGGTGCTGTGAGTGCTTG
LOC_Os09g25070	OsWRKY62_qF	GAGGAGGTGGTGCAAGTG
	OsWRKY62_qR	GTGGGATTTGATCCACAACTCTA
LOC_0s12g02450	OsWRKY64_qF	TCGTCGAAGCATCACAGATTAG
	OsWRKY64_qR	AACAGGTGACGGAGATGTTG
LOC_0s05g46020	OsWRKY07_qF	TCCGGACGAAGTCAGAGAT
	OsWRKY07_qR	CGGTAGTAGTTCCTTGGGTTG
LOC_0s09g25060	OsWRKY76_qF	GTGCTCCATCTCCATCAACT
	OsWRKY76_qR	CGGCACACCTCCTTGAG
LOC_0s03g50885	OsActin_qF	GATCTGGCATCACACCTTCTAC
	OsActin_qR	CTGGGTCATCTTCTCACGATTG

Table S3: List of primers used for quantitative real time PCR.

Table S4: Structural variations at nucleotide level in Tetep and HP2216 in comparison with Nipponbare.

Gene name	Position	Nipponbare	HP2216	Tetep
WRKY7	116	Т	Т	С
	500	G	G	А
	507	G	G	А
	511-522	CCGTGTTCAATG	deletion	CCGTGTTCAATG
	584	С	Т	Т
	900	Т	Т	С
	935	Т	Т	С
	1006-1192	*	*	ATATACTATGGCTGTGTTCGTTCC AGTGACATTGGGTGAGAAAGGTC CTCGTTTTCCGCGCGCACGCTTCC CAAACTACTAAACGGTGCGTTTT TGNNAAATAGTTAATACTCAATTA ATCATATGCTAATGGCCCACCTCG TTTTGCGTATCTTCCCAATCTCCCT ACTCCCCTTCTCCTCAAACACACC CTAT
	1516	Т	Т	С
	1895	С	С	Т
WRKY19	88	С	С	G
	558	А	А	Т
	559	А	А	С
	623	С	С	Т
	625-632	CCGCCGCCG	CCGCCGCCG	deletion
	799	G	G	А
WRKY23	514	С	С	А
	524	G	G	А
	731	G	G	А
	947	Т	Т	С
	1190	А	А	*
	1246	G	G	А
	1326	*	*	А
	1578	G	G	Т
	1945-1947			AAA INSERTION
	2161-2162			GG INSERTION
	2442	Т	Т	С
	2655	G	G	А
	2762	*	*	С
	2791	*	*	А
	2859-2864	ACTTGA	ACTTGA	deletion
	2999	Т	Т	С
	3022	А	А	*
	3024	А	А	Т
	3074			TA INSERTION
	3186-3189			TATA INSERTION
WRKY26	78	А	А	G

	114-116	*	*	ACG INSERTION
	188	G	G	Т
	189-230	GCTCCGGCAGCGGCTACGG CGCCGCCTCGTACGTTGCTC CA	GCTCCGGCAGCGGCTACGGCG CCGCCTCGTACGTTGCTCCA	DELETION
	241	G	G	С
	314-316			CCA INSERTION
	363	С	С	G
	410-412			GGC INSERTION
	455	Т	Т	А
	499	С	С	G
	516	Т	Т	*
	523-525	ATA	ATA	DELETION
WRKY28	95	С	С	Т
	205-206	TC	TC	AA
	1043-1056	ACAACCCGTGCCCG	DELETION	ACAACCCGTGCCCG
WRKY58	257	A	A	Č
	211	C	C	A
	825	С	С	T
WDVV()	837-839	ТСГ	TCI	DELETION
WKKY02	902	I C	ſ	A
	111/	C	C	A
	1124	A	A	*
	1158	Т	Т	С
	1175	A	A	G
	1331	А	А	G
	1359-1368	*	*	GTTGGTTTTT
	1385	G	G	А
	1917	G	G	А
WRKY64	99	G	С	С
	111	A	G	G
	142	A	G	G
	154	С	Т	Т
	163	Т	С	С
	168	Т	С	С
	169	С	Т	Т
	187-190	TAGC	*	*
	222	А	G	G
	231	Т	G	G
	246-247	TC	AT	AT
	256-258	*	CAT	CAT
	281	С	Т	Т
	289	Т	Т	А
	354	G	G	А
	419	G	G	Т
	430	С	С	Т
	463	С	С	G

	469	А	А	G
	473	А	А	G
	479	G	G	С
	484	А	А	G
	492	А	А	Т
	503-507	GATTC	GATTC	CCACA
	509-512	CCGC	CCGC	GATG
	521	G	G	С
	524-526	GGC	GGC	САТ
	530	С	С	G
	559-560	TG	TG	СА
	570-572	CTT	СТТ	*
	590	А	А	Т
	700	G	G	Т
	749	G	G	А
	753	Т	Т	*
	766	А	А	С
	785-787	CAA	CAA	*
	794	G	G	А
	803	Т	Т	С
	878	С	С	А
	902	А	А	G
	905	*	*	Т
	924	Т	Т	С
	1005-1010	*	ATATAT	*
	1043	Т	С	С
	1079	Т	А	Т
	1112	С	С	А
	1115	Т	С	Т
	1139	Т	С	Т
	1143	G	А	G
	1157	G	Т	G
	1175	С	Т	С
	1195	С	С	Т
	1201	С	Т	С
	1488	G	G	Т
	1498	С	Т	С
WRKY70	57	Т	Т	G
	107	Т	Т	С
	483	Т	Т	G
	509	Т	Т	С
	534	А	А	G
	764	А	А	Т
	1250	С	С	A
	1825	G	G	Т

	1860	Т	Т	С
	2243	С	С	Т
	2484	G	G	А
	2789	Т	Т	*
WRKY76	569	G	G	А
	895-944	CGAGCGCGGACAGCTCGCT GCTGGTGGCGACGTACGAG GGCGAGCAC	deletion	CGAGCGCGGACAGCTCGCTGCTG GTGGCGACGTACGAGGGCGAGCA C
	901	С	С	Т
WRKY77	824-826	CAC	deletion	CAC
WRKY79	86	Т	Т	С
	492	А	А	Т
	898	*	*	Т
	1363	А	А	С
	1365	С	С	Т

Gene name	Position	Nipponbare	HP2216	Tetep
WRKY7	80	А	А	Т
	81-84	AVFN	*	AVFN
WRKY19	85-97	QVMPPGHGGLISG		QVMPPGHGGLISG
	184	А	А	Т
WRKY23	155	Т	Т	K
WRKY26	15	Ν	S	Ν
	27	*	D	*
	52-65	GSGSGYGAASYVAP	*	GSGSGYGAASYVAP
	66	Т	S	Т
	94	*	Р	*
	110	А	G	А
	126	*	G	*
	147	Т	М	Т
	184	Ν	Ν	*
	186	Y	Y	F
	187	R	R	G
	188	С	С	Т
	190-209	TEGCNVKKRVERDK NDPRYVV	TEGCNVKKRVERDKN DPRYVV	*
	210	Т	Т	F
	211	М	Т	V
	214	G	G	L
	215	Ι	Ι	V
	216	Н	Н	F
	217	Ν	Ν	K
	218	Н	Н	F
	219	V	V	G
	221	Р	Р	F
WRKY28	13	Р	Р	S
	50	Р	Р	Т
WRKY58	72	А	А	Е
	153	L	L	*
WRKY62	29-31	*	*	CVQ
WRKY64	9	Р	S	S
	33	R	R	K
	55	G	G	С
	73	Ι	Ι	V
	75	Е	Е	Q
	79	Q	Q	L
	83	D	D	Р
	84	S	S	Н
	85	Р	Р	D

Table S5: Variations at amino acid level in HP2216 and Tetep in comparison with Nipponbare

	86	Н	Н	D
	89	D	D	Н
	90	G	G	Н
	92	L	L	V
	102	V	V	Ι
	106	S	S	*
	112	S	S	С
	160	Ν	Ν	K
	192	Н	Н	Q
	220	А	А	V
	222	S	L	S
	318	А	А	S
	321	А	V	А
WRKY70	90	Ι	Ι	М
	99	Ι	Ι	Т
	178	Т	Т	Ν
	370	А	А	S
	477	Р	Р	L
WRKY76	73	L	*	М
	74	Т	*	D
	75	Е	*	А
	76	V	*	А
	77	Ι	*	W
	78	А	*	R
	79	R	*	G
	80	L	*	G
	81	Y	*	V
	82	G	*	G
	83	G	*	С
	84	Q	*	S
	85	Ι	*	Р
	86	Р	*	V
	87	R	*	С
	88	L	*	L
	89	G	*	D
	90	L	*	L
	91	D	*	С
	92	G	*	V
	93	S	*	G
	94	А	А	L
	97	Р	Р	V
	99	Р	Р	Е
	100-134	*	*	PSAARHELLDRPAGCR GGGDSKSMTNDEAKIL EAK

	136	S	S	Т
	137	Р	Р	Q
	138	L	L	М
	140	G	G	Е
	141	K	K	Е
	142-147	*	*	NRRLTE
	220-311	TRDNPSPRAYFRCAF APSCPVKKKVQRSAE DSSLLVATYEGEHNH PHPSPRAGELPAAAG GAGGSLPCSISINSSGP TITLDLTKNGGAVQV	*	TRDNPSPRAYFRCAFAP SCPVKKKVQRSAEDSS LLVATYEGEHNHPHPS PRAGELPAAAGGAGGS LPCSISINSSGPTITLDLT KNGGAVQV
WRKY77	93	Н	Н	*
WRKY79	29	V	V	А
	216	Ν	N	Н

		Nipponbare		HP2216		Tetep	
SI.	Pro		TF		TF		TF
No.	ID W07	Binding sequence	family	Binding sequence	family	Binding sequence	family
	pW07	acGTCGGtgt	AP2	acGTCGGtgt	AP2	acGTCGGtgt	AP2
			bHLH		bHLH		
		cCCACGtcg	bZIP	cCCACGtcg	bZIP	cCCACGtcg	bZIP
		cTTGACta	WRKY	cTTGACta	WRKY	tGTCAA	WRKY
		ccAACCAact	MYB	ccAACCAact	MYB	ccAACCAact	MYB
		aaaatTTTCT	HSF	aaaatTTTCT	HSF		
		CTCGG	Dehydrin	CTCGG	Dehydrin	CTCGG	Dehydrin
		agCGGCT	ERF	agCGGCT	ERF	agCGGCT	ERF
	pW19	aACGTGc	bHLH	aACGTGc	bHLH		
		aaaACGTGct	bZIP	aaaACGTGct	bZIP	aaaACGTGct	bZIP
		cgGTCAAagt	WRKY	cgGTCAAagt	WRKY	cgGTCAAagt	WRKY
		tggTAGGTtg	MYB	tggTAGGTtg	MYB	tggTAGGTtg	MYB
		caaCCTTAgt	AP2	caaCCTTAgt	AP2	caaCCTTAgt	AP2
		AGAAAgtttt	HSF	AGAAAgtttt	HSF	AGAAAgtttt	HSF
		CCGAG	Dehydrin	CCGAG	Dehydrin		
	pW23	tcCGGCCgcc	AP2	tcCGGCCgcc	AP2	tcCGGCCgcc	AP2
		gtggcgCACGTccggccg	bHLH	gtggcgCACGTccggccg	bHLH		
		taaCGTGGc	bZIP	taaCGTGGc	bZIP		
		ttTTGACttc	WRKY	ttTTGACttc	WRKY	ttTTGACttc	WRKY
		aaACCTAtct	MYB	aaACCTAtct	MYB	gggTGGTTgt	MYB
		TCGAC	Dehydrin	TCGAC	Dehydrin	AGAACttttt	HSF
	pW26	ccaCCGACgt	AP2	ccaCCGACgt	AP2	ccaCCGACgt	AP2
		cGAAGCttca	HSF	cGAAGCttca	HSF	cGAAGCttca	HSF
		gCACGTg	bHLH	gCACGTg	bHLH	gCACGTg	bHLH
		acatgCACGTgta	bZIP	acatgCACGTgta	bZIP	acatgCACGTgta	bZIP
		actTTGACca	WRKY	actTTGACca	WRKY	CCAAC	Dehydrin
		GTAGG	Dehydrin	GTGGG	Dehydrin	TGACC	WRKY
		ggCGGCT	ERF	ggCGGCT	ERF	AGCCGca	ERF
	pW28	GCATGtgg	bHLH	GCATGtgg	bHLH	GCATGtgg	bHLH
		tacCAGCTgg	bZIP	tacCAGCTgg	bZIP	tacCAGCTgg	bZIP
		gaGTCAAcaa	WRKY	gaGTCAAcaa	WRKY	gaGTCAAcaa	WRKY
		gcAACCAgcc	MYB	gcAACCAgcc	MYB	gcAACCAgcc	MYB
		AGAACttttt	HSF	AGAACttttt	HSF	AGAACttttt	HSF
		GTCGT	Dehydrin	GTCGT	Dehydrin	GTCGT	Dehydrin
	pW58	ccgACGTCac	bZIP	ccgACGTCac	bZIP	ccgACGTCac	bZIP
		gcaCCGACac	AP2	gcaCCGACac	AP2	gcaCCGACac	AP2
		ctgcccCACGTgttcctg	bHLH	ctgcccCACGTgttcctg	bHLH	ctgcccCACGTgttcctg	bHLH
		ccgTTGACga	WRKY	ccgTTGACga	WRKY	ccgTTGACga	WRKY
<u> </u>		gcAACCActa	MYB	gcAACCActa	MYB	gcAACCAcca	MYB
F		CCGAG	Dehvdrin	CCGAG	Dehvdrin	CCGAG	Dehvdrin
L					, ,		, ,

Table S6: Selected known Transcription factor (TF) binding elements in the promoters of DEG WRKYs.

		Nipponbare		HP2216		Tetep	
SI.	Pro		TF		TF		TF
No.	ID	Binding sequence	family	Binding sequence	family	Binding sequence	family
	pW62		bHLH		bHLH		bHLH
		ttCACGTttt	bZIP	ttCACGTttt	bZIP	ttCACGTttt	bZIP
		cgGTCAAg	WRKY	cgGTCAAg	WRKY	cgGICAAg	WRKY
		gaAACCAacg	MYB	gaAACCAacg	MYB	gaAACCAacg	MYB
		ccTACGAggc	AP2	ccTACGAggc	AP2	ccTACGAggc	AP2
		CCAAC	Dehydrin	CCAAC	Dehydrin	CCAAC	Dehydrin
		AGCCGcg	ERF	AGCCGcg	ERF	AGCCGcg	ERF
		ACGGCgcc	NAC	ACGGCgcc	NAC	ACGGCgcc	NAC
	pW64	GAACGtac	bHLH	GAACGtac	bHLH		
		atgCGTCAca	bZIP	atgCGTCAca	bZIP		
		tagTGGTTgc	MYB	tagTGGTTgc	MYB	tagTGGTTgc	MYB
		tgaagGTTCT	HSF	tgaagGTTCT	HSF	tgaagGTTCT	HSF
		ATCGG	Dehydrin	CCTAC	Dehydrin		
	pW70	tccACGTCac	bZIP	tccACGTCac	bZIP	tccACGTCac	bZIP
		cCACGTc	bHLH	cCACGTc	bHLH	cCACGTc	bHLH
		gctTTGACca	WRKY	gctTTGACca	WRKY	gctTTGACca	WRKY
		ccAACCAtct	MYB	ccAACCAtct	MYB	ccAACCAtct	MYB
		agtatATTCT	HSF	agtatATTCT	HSF	aaaCCTTAat	AP2
		CTGAC	Dehydrin	CTGAC	Dehydrin	agtatATTCT	HSF
						CTGAC	Dehydrin
	pW76	gTGACGtaag	bZIP	gTGACGtaag	bZIP		
		attcgtgACGTGcgctcc	bHLH	attcgtgACGTGcgctcc	bHLH	attcgtgACGTGcgctcc	bHLH
		cTTGACcg	WRKY	cTTGACcg	WRKY	cTTGACcg	WRKY
		tcACCTAgcc	MYB	tcACCTAgcc	MYB	tcACCTAgcc	MYB
		AGAATattat	HSF	AGAATattat	HSF	AGAACatget	HSF
		CACGCgtgccgaac	AP2	CACGCgtgccgaac	AP2	CACGCgtgccgaac	AP2
		CCGAA	Dehydrin	CCGAA	Dehydrin	CCGAA	Dehydrin
	pW77	gtGACGTact	bZIP	gtGACGTact	bZIP		
		GCGCGcgc	bHLH	GCGCGcgc	bHLH	GCGCGcgc	bHLH
		tCCGTTgagt	MYB	tCCGTTgagt	MYB	tCCGTTgagt	MYB
		CCGTC	Dehydrin	CCGTC	Dehydrin		
		TGACT	WRKY	TGACT	WRKY		
	pW79	gtgtgaCACGTcgtcccg	bHLH	gtgtgaCACGTcgtcccg	bHLH		
		ctaCGTGGa	bZIP	ctaCGTGGa	bZIP	ctaCGTGGa	bZIP
		cgGTCAAagg	WRKY	cgGTCAAagg	WRKY		
		gCCGTTcggt	MYB	gCCGTTcggt	MYB	gCCGTTcggt	MYB
		cgaaaTTTCT	HSF	cgaaaTTTCT	HSF	cgaaaTTTCT	HSF
		GTCTG	Dehydrin	GTCTG	Dehydrin		



Fig. S1: Metadata Analysis and Database Design: Schematic Diagram of RiceMetaSys (Biotic Stress) Database. Expression datasets were downloaded from the NCBI Gene expression Omnibus (GEO) Database. The datasets were analyzed by using limma package in R platform. Different kinds of search options were enabled for users to retrieve responsive genes from the Database.

	$\langle X \rangle$	
Leaf Blast Experiments		Panicle Blast Experiment
LOC_Os01g09100		LOC_0s01g40260
LOC_0s01g14440		LOC_0s01g51690
LOC_0s01g40260		LOC_0:01g33260
LOC_0s01g43650		LOC_0:05::20720
LOC_0s01g51690		LOC_0:05::239720
LOC_0s01g53040		
	Ļ	LOC_0:05::240620
LOC_0s02g08440	•	
LOC_0:02g20430	Final Selected WRKY	
LOC_0:03:021710		
LOC_0:05g21710	LOC Os01940260 WRKY77	LOC_0:12:02450
LOC_0:05g49620	LOC 0:01:051600 WPKV26	LOC_0312g02430
LOC_0s05g49020	LOC_0.01 52050 WRX120	
LOC_0:00g25070	LOC_OSUIg53260 WRKY23	
LOC_0s03g23070	LOC_Os03g21710 WRKY79	
LOC_0s11g02550	LOC_Os05g39720 WRKY70	
LOC_0s12g02450	LOC Os05g45230 WRKY58	
LOC_0312g02450	LOC Os05g49620 WRKY19	
	LOC_Os06g44010 WRKY28	
	LOC Os09g25070 WRKY62	
	LOC_Os12g02450 WRKY64	
	LOC_Os05g46020 WRKY7	
	LOC Os09g25060 WRKY76	

Fig. S2: Differentially expressed WRKY genes selected from RiceMetaSysB database and from panicle blast transcriptome.

	10 20 30 40 50 60 70	
	·····	
OC_Os12g02450_WRKY64		1
WRKY64		1
WRKY64		1
OC_Os03g21710_WRKY79		1
WRKY79		1
WRKY79		1
OC_Os05g49620_WRKY19		1
WRKY19		1
WRKY19		1
C Os05g46020 WRKY07		1
WRKY07		1
WRKY07		1
C 0s01g51690 WBKY26		1
WRKV26		1
WBWV26		1
WRR120		1
WERT //		1
WRKY//		1
DC_0s01g40260_WRKY//		1
C_Os05g39720_WRKY70	MTAAPGSLPLVNSRPVSLSLAASRSSFSSLLSGGAGSSLNLMTPPSSLPPSSSYFGGVSSSGFLDSPI	70
WRKY70	MTAAPGSLPLVNSRPVSLSLAASRSSFSSLLSGGAGSSLNLMTPPSSLPPSSPSSYFGGVSSSGFLDSPI	70
WRKY70	MTAAPGSLPLVNSRPVSLSLAASRSSFSSLLSGGAGSSLNLMTPPSSLPPSSPSSYFGGVSSSGFLDSPI	70
C_0s01g53260_WRKY23		1
WRKY23		1
WRKY23		1
WRKY58		1
WRKY58		1
C 0s05g45230 WRKY58		1
C Os06g44010 WRKY28		1
WRKY28		1
WRR120		1
WRK120		1
WRKY62		1
WRKY62		1
C_0s09g25070_WRKY62		1
C_0s09g25060_WRKY76		1
WRKY76		1
WRKY76		1
DC_Os12g02450_WRKY64 WRKY64	·····[·····[·····[·····[·····[·····[····	1
DC_Os12g02450_WRKY64 WRKY64 WRKY64	·····[·····[·····[·····[·····[·····[····	1 1 1
DC_Os12g02450_WRKY64 WRKY64 OC_Os03g21710_WRKY79		1 1 1
C_Os12g02450_WRKY64 IRKY64 WRKY64 C_Os03g21710_WRKY79		1 1 1 1
DC_Os12g02450_WRKY64 IRKY64 WRKY64 DC_Os03g21710_WRKY79 WRKY79		1 1 1 1 1
DC_Os12g02450_WRKY64 WRKY64 WRKY64 DC_Os03g21710_WRKY79 WRKY79 WRKY79		1 1 1 1 1
DC_Os12g02450_WRKY64 WRKY64 DC_Os03g21710_WRKY79 WRKY79 WRKY79 DC_Os05g49620_WRKY19		1 1 1 1 1 1
DC_Os12g02450_WRKY64 WRKY64 DC_Os03g21710_WRKY79 WRKY79 WRKY79 DC_Os05g49620_WRKY19 WRKY19		1 1 1 1 1 1 1
OC_Os12g02450_WRKY64 WRKY64 WRKY64 DC_Os03g21710_WRKY79 WRKY79 WRKY79 OC_Os05g49620_WRKY19 WRKY19 WRKY19		1 1 1 1 1 1 1
DC_Os12g02450_WRKY64 WRKY64 CC_Os03g21710_WRKY79 WRKY79 WRKY79 OC_Os05g49620_WRKY19 WRKY19 WRKY19 DC_Os05g46020_WRKY07		1 1 1 1 1 1 1 1
DC_Os12g02450_WRKY64 WRKY64 CC_Os03g21710_WRKY79 WRKY79 OC_Os05g49620_WRKY19 WRKY19 WRKY19 WRKY19 DC_Os05g46020_WRKY07 WRKY07		1 1 1 1 1 1 1 1 1 1
DC_Os12g02450_WRKY64 WRKY64 OC_Os03g21710_WRKY79 WRKY79 WRKY79 CC_Os05g49620_WRKY19 WRKY19 WRKY19 DC_Os05g46020_WRKY07 WRKY07 WRKY07		1 1 1 1 1 1 1 1 1 1 1
DC_Os12g02450_WRKY64 WRKY64 OC_Os03g21710_WRKY79 WRKY79 WRKY79 CC_Os05g49620_WRKY19 WRKY19 WRKY19 OC_Os05g46020_WRKY07 WRKY07 WRKY07 C_Os01g51690_WRKY26		1 1 1 1 1 1 1 1 1 1 1 1 1
DC_OS12g02450_WRKY64 RRKY64 WRKY64 DC_OS03g21710_WRKY79 WRKY79 WRKY79 WRKY19 WRKY19 WRKY19 WRKY19 WRKY19 C_OS05g46020_WRKY07 WRKY07 WRKY07 DC_OS01g51690_WRKY26 WRKY26		1 1 1 1 1 1 1 1 1 1 1 1 1
DC_Os12g02450_WRKY64 IRKY64 WRKY64 CC_Os03g21710_WRKY79 WRKY79 WRKY79 CC_Os05g49620_WRKY19 WRKY19 WRKY19 WRKY19 CC_Os05g46020_WRKY07 WRKY07 CC_Os01g51690_WRKY26 WRKY26 WRKY26		$ \begin{array}{c} 1 \\ $
C_Os12g02450_WRKY64 IRKY64 WRKY64 C_Os03g21710_WRKY79 WRKY79 VC_Os05g49620_WRKY19 WRKY19 WRKY19 C_Os05g46020_WRKY19 WRKY07 WRKY07 WRKY07 C_Os01g51690_WRKY26 WRKY26 WRKY26 WRKY26 WRKY77		$ \begin{array}{c} 1 \\ $
DC_Os12g02450_WRKY64 IRKY64 WRKY64 C_Os03g21710_WRKY79 WRKY79 WRKY79 WRKY19 WRKY19 C_Os05g49620_WRKY19 WRKY19 C_Os05g46020_WRKY07 WRKY07 WRKY07 WRKY07 WRKY26 WRKY26 WRKY77 WRKY77		$ \begin{array}{c} 1 \\ $
DC_Os12g02450_WRKY64 WRKY64 WRKY64 CC_Os03g21710_WRKY79 WRKY79 OC_Os05g49620_WRKY19 WRKY19 WRKY19 DC_Os05g46020_WRKY07 WRKY07 WRKY07 WRKY07 DC_Os01g51690_WRKY26 WRKY26 WRKY26 WRKY27 WRKY77 DC_Os01g40260 WRKY77		$ \begin{array}{c} 1 \\ $
DC_Os12g02450_WRKY64 RRKY64 WRKY64 CC_Os03g21710_WRKY79 WRKY79 WRKY79 WRKY19 WRKY19 WRKY19 CC_Os05g46020_WRKY19 WRKY07 WRKY07 CC_Os01g51690_WRKY26 WRKY26 WRKY26 WRKY27 WRKY77 DC_Os01g40260_WRKY77 DC_Os01g40260_WRKY77 DC_Os01g39720 WRKY70		$ \begin{array}{c} 1 \\ $
C_Os12g02450_WRKY64 RKY64 WRKY64 C_Os03g21710_WRKY79 WRKY79 C_Os05g49620_WRKY19 WRKY19 C_Os05g46020_WRKY07 WRKY07 WRKY07 C_Os01g51690_WRKY26 WRKY26 WRKY26 WRKY26 WRKY77 C_Os01g40260_WRKY77 C_Os05g39720_WRKY70		$1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\$
C_Os12g02450_WRKY64 RKY64 WRKY64 C_Os03g21710_WRKY79 WRKY79 C_Os05g49620_WRKY19 WRKY19 WRKY19 C_Os05g46020_WRKY07 WRKY07 C_Os01g51690_WRKY26 WRKY26 WRKY26 WRKY26 WRKY77 C_Os01g40260_WRKY77 C_Os05g39720_WRKY70 WRKY70		$1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\$
C_Os12g02450_WRKY64 RKY64 C_Os03g21710_WRKY79 WRKY79 C_Os05g49620_WRKY19 WRKY19 C_Os05g46020_WRKY19 WRKY19 C_Os01g51690_WRKY26 WRKY26 WRKY26 WRKY26 WRKY26 WRKY77 C_Os01g40260_WRKY77 C_Os01g40260_WRKY77 C_Os05g39720_WRKY70 WRKY70 C_Os01g53260_WRKY23	LLTPSLFPSPTTTGALFSWITTATATATATATATATATAPESQVQGGVKDEQQQYSDFTFLPTASTAPATTMAGATATT LLTPSLFPSPTTTGALFSWITTATATATATATATAPESQVQGGVKDEQQQYSDFTFLPTASTAPATTMAGATATT	$1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\$
C_Os12g02450_WRKY64 RKY64 WRKY64 C_Os03g21710_WRKY79 WRKY79 C_Os05g49620_WRKY19 WRKY19 C_Os05g46020_WRKY19 WRKY19 C_Os01g51690_WRKY26 WRKY26 WRKY26 WRKY26 WRKY77 C_Os01g40260_WRKY77 C_Os01g40260_WRKY77 C_Os05g39720_WRKY70 WRKY70 WRKY70 WRKY70 WRKY70 WRKY70 C_Os01g53260_WRKY23	LLTPSLFPSPTTTGALFSWITTATATATAAIAPESQVQGGVKDEQQQYSDFTFLPTASTAPATTMAGATATT LLTPSLFPSPTTTGALFSWITTATATATAAIAPESQVQGGVKDEQQQYSDFTFLPTASTAPATTMAGATATT	1 4 1 1
C_Os12g02450_WRKY64 RKY64 C_Os03g21710_WRKY79 WRKY79 C_Os05g49620_WRKY19 WRKY19 C_Os05g46020_WRKY19 WRKY19 C_Os01g51690_WRKY07 WRKY07 C_Os01g51690_WRKY26 WRKY26 WRKY26 WRKY26 WRKY77 C_Os01g40260_WRKY77 C_Os01g40260_WRKY77 WRKY77 C_Os01g40260_WRKY77 WRKY70 WRKY70 WRKY70 C_Os01g53260_WRKY23 WRKY23		1 1
C_Os12g02450_WRKY64 RKY64 C_Os03g21710_WRKY79 WRKY79 C_Os05g49620_WRKY19 WRKY19 C_Os05g49620_WRKY19 WRKY19 C_Os05g46020_WRKY07 WRKY07 C_Os01g51690_WRKY26 WRKY26 WRKY26 WRKY26 WRKY77 C_Os01g40260_WRKY77 C_Os01g40260_WRKY77 WRKY70 WRKY70 WRKY70 WRKY70 WRKY23 WRKY23 WRKY23 WRKY23		$ \begin{array}{c} 1 \\ $
C_Os12g02450_WRKY64 RKY64 WRKY64 C_Os03g21710_WRKY79 WRKY79 C_Os05g49620_WRKY19 WRKY19 C_Os05g46020_WRKY19 WRKY19 C_Os01g51690_WRKY26 WRKY26 WRKY26 WRKY26 WRKY26 WRKY77 C_Os01g40260_WRKY77 C_Os01g40260_WRKY77 C_Os01g53260_WRKY70 WRKY70 C_Os01g53260_WRKY23 WRKY23 WRKY23 WRKY23 WRKY23	LLTPSLFPSPTTTGALFSWITTATATATATATATATATATESQVQGGVKDEQQQYSDFTFLPTASTAPATTMAGATATT LLTPSLFPSPTTTGALFSWITTATATATATATATAPESQVQGGVKDEQQQYSDFTFLPTASTAPATTMAGATATT	$ \begin{array}{c} 1 \\ $
C_Os12g02450_WRKY64 RKY64 WRKY64 C_Os03g21710_WRKY79 WRKY79 C_Os05g49620_WRKY19 WRKY19 C_Os05g46020_WRKY19 WRKY19 C_Os01g51690_WRKY26 WRKY26 WRKY26 WRKY26 WRKY26 WRKY77 C_Os01g51690_WRKY26 WRKY77 C_Os01g40260_WRKY77 C_Os01g40260_WRKY77 C_Os01g53260_WRKY70 WRKY70 C_Os01g53260_WRKY23 WRKY23 WRKY23 WRKY58 WRKY58	LLTPSLFPSPTTTGALFSWITTATATAAIAPESQVQGGVKDEQQQYSDFTFLPTASTAPATTMAGATATT LLTPSLFPSPTTTGALFSWITTATATAAIAPESQVQGGVKDEQQQYSDFTFLPTASTAPATTMAGATATT	$\begin{array}{c}1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\$
C_OS12g02450_WRKY64 RKY64 C_OS03g21710_WRKY79 WRKY79 WRKY79 C_OS05g49620_WRKY19 WRKY19 C_OS05g46020_WRKY07 WRKY07 WRKY07 C_OS01g51690_WRKY26 WRKY26 WRKY26 WRKY26 WRKY77 C_OS01g40260_WRKY27 C_OS01g40260_WRKY77 C_OS01g40260_WRKY77 C_OS01g539720_WRKY70 WRKY70 WRKY70 WRKY70 WRKY70 WRKY23 WRKY23 WRKY28 WRKY58 WRKY58 WRKY58 WRKY58		$\begin{array}{c}1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\$
DC_OS12g02450_WRKY64 RRKY64 WRKY64 DC_OS03g21710_WRKY79 WRKY79 WRKY79 WRKY19 WRKY19 WRKY19 C_OS05g49620_WRKY19 WRKY07 DC_OS01g51690_WRKY26 WRKY26 WRKY26 WRKY26 WRKY77 DC_OS01g40260_WRKY26 WRKY77 DC_OS01g40260_WRKY77 DC_OS01g53260_WRKY70 WRKY70 WRKY70 DC_OS01g53260_WRKY23 WRKY23 WRKY23 WRKY28 WRKY58 WRKY58 DC_OS05g45230_WRKY58 DC_OS06g44010_WRK28	LLTPSLFPSPTTTGALFSWITTATATAAIAPESQVQGGVKDEQQQYSDFTFLPTASTAPATTMAGATATT LLTPSLFPSPTTTGALFSWITTATATAAIAPESQVQGGVKDEQQQYSDFTFLPTASTAPATTMAGATATT LLTPSLFPSPTTTGALFSWITTATATAAIAPESQVQGGVKDEQQQYSDFTFLPTASTAPATTMAGATATT 	$1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\$
DC_OS12g02450_WRKY64 RKY64 WRKY64 WRKY79 WRKY79 WRKY19 WRKY19 WRKY19 WRKY19 C_OS05g49620_WRKY19 WRKY19 WRKY07 WRKY07 WRKY07 C_OS01g51690_WRKY26 WRKY26 WRKY26 WRKY26 WRKY70 WRKY77 C_OS01g40260_WRKY77 C_OS01g53260_WRKY70 WRKY70 WRKY70 WRKY70 WRKY70 WRKY23 WRKY23 WRKY28 WRKY28	LLTPSLFPSPTTTGALFSWITTATATAAIAPESQVQGGVKDEQQQYSDFTFLPTASTAPATTMAGATATT LLTPSLFPSPTTTGALFSWITTATATAAIAPESQVQGGVKDEQQQYSDFTFLPTASTAPATTMAGATATT LLTPSLFPSPTTTGALFSWITTATATAAIAPESQVQGGVKDEQQQYSDFTFLPTASTAPATTMAGATATT 	$1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\$
DC_Os12g02450_WRKY64 WRKY64 WRKY64 WRKY79 WRKY79 WRKY79 WRKY19 WRKY19 WRKY19 OC_Os05g49620_WRKY19 WRKY19 WRKY07 OC_Os01g51690_WRKY26 WRKY26 WRKY26 WRKY26 WRKY77 WRKY77 OC_Os01g51690_WRKY26 WRKY77 WRKY77 WRKY77 OC_Os01g40260_WRKY77 OC_Os01g53260_WRKY70 WRKY70 OC_Os01g53260_WRKY23 WRKY23 WRKY23 WRKY28 WRKY28 WRKY28	LLTPSLFPSPTTTGALFSWITTATATAAIAPESQVQGGVKDEQQQYSDFTFLPTASTAPATTMAGATATT LLTPSLFPSPTTTGALFSWITTATATAAIAPESQVQGGVKDEQQQYSDFTFLPTASTAPATTMAGATATT LLTPSLFPSPTTTGALFSWITTATATAAIAPESQVQGGVKDEQQQYSDFTFLPTASTAPATTMAGATATT LLTPSLFPSPTTTGALFSWITTATATAAIAPESQVQGGVKDEQQQYSDFTFLPTASTAPATTMAGATATT 	$\begin{smallmatrix} 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 $
DC_0s12g02450_WRKY64 WRKY64 WRKY64 WRKY79 WRKY79 WRKY79 OC_0s05g49620_WRKY19 WRKY19 WRKY19 OC_0s05g46020_WRKY19 WRKY07 WRKY07 WRKY07 C_0s01g51690_WRKY26 WRKY26 WRKY26 WRKY26 WRKY26 WRKY77 OC_0s01g40260_WRKY77 OC_0s01g40260_WRKY77 OC_0s01g40260_WRKY77 WRKY70 OC_0s01g53260_WRKY23 WRKY23 WRKY23 WRKY23 WRKY28 WRKY28 WRKY28 WRKY28 WRKY28 WRKY28 WRKY28 WRKY28	LLTPSLFPSPTTTGALFSWITTATATATAAIAPESQVQGGVKDEQQQYSDFTFLPTASTAPATTMAGATATT LLTPSLFPSPTTTGALFSWITTATATATAAIAPESQVQGGVKDEQQQYSDFTFLPTASTAPATTMAGATATT LLTPSLFPSPTTTGALFSWITTATATATAAIAPESQVQGGVKDEQQQYSDFTFLPTASTAPATTMAGATATT LLTPSLFPSPTTTGALFSWITTATATATATAAIAPESQVQGGVKDEQQQYSDFTFLPTASTAPATTMAGATATT LLTPSLFPSPTTGALFSWITTATATATATATAPESQVQGGVKDEQQYSDFTFLPTASTAPATTMAGATATT 	$\begin{smallmatrix} 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 $
DC_0s12g02450_WRKY64 WRKY64 WRKY64 DC_0s03g21710_WRKY79 WRKY79 WRKY79 WRKY19 WRKY19 DC_0s05g49620_WRKY19 WRKY19 WRKY07 DC_0s01g51690_WRKY26 WRKY26 WRKY26 WRKY26 WRKY77 DC_0s01g40260_WRKY77 DC_0s01g40260_WRKY77 DC_0s01g53260_WRKY70 WRKY70 WRKY70 WRKY70 DC_0s01g53260_WRKY23 WRKY23 WRKY28 WRKY58 DC_0s05g45230_WRKY28 WRKY82 WRKY84 WRKY84 WRKY84 WRKY84 WRKY84 WRKY84 WRKY84	LLTPSLPPSPTTTGALFSWITTATATAAIAPESQVQGGVKDEQQQYSDFTFLPTASTAPATTMAGATATT LLTPSLPPSPTTGALFSWITTATATAAIAPESQVQGGVKDEQQQYSDFTFLPTASTAPATTMAGATATT LLTPSLPPSPTTGALFSWITTATATAAIAPESQVQGGVKDEQQQYSDFTFLPTASTAPATTMAGATATT LLTPSLPPSPTTGALFSWITTATATAAIAPESQVQGGVKDEQQQYSDFTFLPTASTAPATTMAGATATT 	$\begin{smallmatrix} 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 $
DC_OS12g02450_WRKY64 RRKY64 WRKY64 CC_OS03g21710_WRKY79 WRKY79 WRKY79 WRKY19 WRKY19 WRKY19 CC_OS05g49620_WRKY19 WRKY07 CC_OS01g51690_WRKY26 WRKY26 WRKY26 WRKY26 WRKY26 WRKY77 CC_OS01g40260_WRKY26 WRKY70 CC_OS01g53260_WRKY77 CC_OS01g53260_WRKY23 WRKY23 WRKY23 WRKY23 WRKY23 WRKY28 WRY28 WRKY28 WRKY28 WRKY28 WRKY28 WRY28 WRY28 WRY28 WRKY28 WRY28	LLTPSLFPSPTTTGALFSWITTATATAAIAPESQVQGGVKDEQQQYSDFTFLPTASTAPATTMAGATATT LLTPSLFPSPTTTGALFSWITTATATAAIAPESQVQGGVKDEQQQYSDFTFLPTASTAPATTMAGATATT LLTPSLFPSPTTTGALFSWITTATATAAIAPESQVQGGVKDEQQQYSDFTFLPTASTAPATTMAGATATT LLTPSLFPSPTTTGALFSWITTATATAAIAPESQVQGGVKDEQQQYSDFTFLPTASTAPATTMAGATATT 	$\begin{smallmatrix} 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 $
C_OS12g02450_WRKY64 RKY64 WRKY64 C_OS03g21710_WRKY79 WRKY79 WRKY79 C_OS05g49620_WRKY19 WRKY19 C_OS05g46020_WRKY19 WRKY07 C_OS01g51690_WRKY26 WRKY26 WRKY26 WRKY26 WRKY77 C_OS01g40260_WRKY77 C_OS01g40260_WRKY77 WRKY77 WRKY77 WRKY77 WRKY70 WRKY70 WRKY28 WRKY26 WRKY26 WRKY26 WRKY28 WRKY28 WRKY28 WRKY28 WRKY28 WRKY26 WRKY26 WRKY28 WRY28 WRY	LLTPSLFPSPTTGALFSWITTATATAAIAPESQVQCGVKDEQQQYSDFTFLPTASTAPATTMAGATATT LLTPSLFPSPTTGALFSWITTATATAAIAPESQVQCGVKDEQQQYSDFTFLPTASTAPATTMAGATATT LLTPSLFPSPTTGALFSWITTATATAAIAPESQVQCGVKDEQQQYSDFTFLPTASTAPATTMAGATATT LLTPSLFPSPTTGALFSWITTATATAAIAPESQVQCGVKDEQQQYSDFTFLPTASTAPATTMAGATATT 	$\begin{smallmatrix} 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 $
DC_0s12g02450_WRKY64 WRKY64 WRKY64 WRKY79 WRKY79 WRKY79 WRKY19 VRKY19 WRKY19 VC_0s05g49620_WRKY19 WRKY19 WRKY07 VC_0s01g51690_WRKY26 WRKY26 WRKY26 WRKY26 WRKY77 WRKY77 VC_0s01g51690_WRKY77 VC_0s01g51690_WRKY77 VRKY77 WRKY77 WRKY77 WRKY77 WRKY78 VRKY28 WRKY26 VC_0s09g25070_WRKY26 VC_0s09g25070_WRKY26 VC_0s09g25070_WRKY76	LLTPSLFPSPTTTGALFSWITTATATATATATATAESQVQGGVKDBQQQYSDFTFLPTASTAPATTMAGATATT LLTPSLFPSPTTTGALFSWITTATATATATAEBSQVQGGVKDBQQQYSDFTFLPTASTAPATTMAGATATT LLTPSLFPSPTTTGALFSWITTATATATATAEBSQVQGGVKDBQQQYSDFTFLPTASTAPATTMAGATATT LLTPSLFPSPTTTGALFSWITTATATATATAEBSQVQGGVKDBQQQYSDFTFLPTASTAPATTMAGATATT 	$\begin{smallmatrix} 1 & 1 & 1 & 1 \\ 1 & 1 & 1 & 1 & 1 \\ 1 & 1 &$
DC_Os12g02450_WRKY64 IRKY64 WRKY64 C_Os03g21710_WRKY79 WRKY79 C_Os05g49620_WRKY19 WRKY19 WRKY19 WRKY19 C_Os05g46020_WRKY07 WRKY07 C_Os01g51690_WRKY26 WRKY26 WRKY26 WRKY26 WRKY77 WRKY77 C_Os01g40260_WRKY77 C_Os01g40260_WRKY77 WRKY77 WRKY77 C_Os01g53260_WRKY23 WRKY28 WRKY28 WRKY28 WRKY28 WRKY28 WRKY28 WRKY28 WRKY28 WRKY28 WRKY28 WRKY28 WRKY28 WRKY28 WRKY26 WRKY26 WRKY27 C_Os09g25070_WRKY26 WRKY76	LLTPSLFPSPTTTGALFSWITTATATAAIAPESQVQCGVKDBQQQYSDFTFLPTASTAPATTMAGATATT LLTPSLFPSPTTTGALFSWITTATATAAIAPESQVQCGVKDBQQQYSDFTFLPTASTAPATTMAGATATT LLTPSLFPSPTTTGALFSWITTATATAAIAPESQVQCGVKDBQQQYSDFTFLPTASTAPATTMAGATATT LLTPSLFPSPTTTGALFSWITTATATAAIAPESQVQCGVKDBQQQYSDFTFLPTASTAPATTMAGATATT 	$\begin{smallmatrix} 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 $

	150		160	170	180	190	200	210)
LOC Os12g02450 WRKY64						M	KNSSNKRPLVA	DOWHPSS	19
HWRKY64						M	KNSSNKRSLVA	DOWHPSS	19
T_WRKY64						M	KNSSNKRSLVA	DOWHPSS	19
LOC_Os03g21710_WRKY79							MAFSS	EGGVPAE	12
H_WRKY79							MAFSS	EGGVPAE	12
T_WRKY79							MAFSS	EGGVPAE	12
LOC_OSUSG49620_WRK119								GEGEGQI	13
T WRKY19							MVELCG	GEGEGOI	13
LOC 0s05q46020 WRKY07							MAAV	GAHAAV-	10
T WRKY07							MAAV	GAHAAV-	10
H_WRKY07							MAAV	GAHAAV-	10
LOC_Os01g51690_WRKY26							MYMAAA	AAGASTP	13
H_WRKY26							MYMAAA	AAGASTP	13
T_WRKY26							MYMAAA	AAGASTP	13
н_weri// т wery77							MS:	SLIPSLL SLIPSLL	9
LOC Os01g40260 WRKY77							MS	SLYPSLL	9
LOC 0s05g39720 WRKY70	SNSFMOD SMLM	APLGG	DPYNGEQ	QOPWSYQEP1	MDADTRPAEFT	SSAAAGDV	AGNGSYSQVAA	PAAAGGF	210
H WRKY70	SNSFMQDSML	APLGG	DPYNGEQ	QQPWSYQEP	MDADTRPAEFT	SSAAAGDV	AGNGSYSQVAA	PAAAGGF	210
T_WRKY70	SNSFMQDSML	APLGG	DPYNGEQ	QQPWSYQEP	MDADNRPAEFT	SSAAAGDV	AGNGSYSQVAA	PAAAGGF	210
LOC_Os01g53260_WRKY23					MENL	QLQGDD	HDDEALPHFPY	FAVPSPP	28
H_WRKY23					MENL	QLQGDD	HDDEALPHFPY	FAVPSPP	28
T_WRKY23					MENL	QLQGDD	HDDEALPHFPY	FAVPSPP	28
T_WRKY58					MDGL	EAAAGDQQ	HGRLLIPQLPA	AYLASSS	30
H_WERISS					MDGL	EAAAGDQQ	HGRLLIPQLPA	ATLASSS	30
$100_0806943230_WKR138$	BT.SPSSPSSPE		FOYTOFM	DSWTEOTST.	T.DT.NVGLPSTA	BBCCAPAA	PTKVIVEENEL	CEKKDHE	107
H WRKY28	RLSPSSPSSPE	PPPVLD	FOYIOFM	DSWIEOTSLS	LDLNVGLPSTA	RRSSAPAA	PIKVLVEENFL	SFKKDHE	107
T WRKY28	RLSPSSPSSPE	PTVLD	FOYIOFM	DSWIEOTSLS	LDLNVGLPSTA	RRSSAPAA	PIKVLVEENFL	SFKKDHE	107
T WRKY62					MDDDG	DGSSSPTD	DSAAAGLLPLF	SRSPCVQ	31
H_WRKY62									1
LOC_Os09g25070_WRKY62					MDDDG	DGSSSPTD	DSAAAGLLPLF	SRSP	28
LOC_Os09g25060_WRKY76					MDAAWRG	GVGCSPVC	LDLCVGLSPVR	EPSAARH	33
H_WRKY76									1
T_WRKY76					MDAAWRG	GVGCSPVC	LDLCVGLSPVR	EPSAARH	33
	220		220	240	250	260	270	200	h .
	220) . . .	230	240 • • • • • • • •	250	260	270	280	D
LOC_Os12g02450_WRKY64	220 . VCCDHRAALRE	IARGQ:	230 SLVTQLR	240 • • • • • • • AIVLPALHSI	250 . DERGDLAAQ	260	270 	280 • • • • SRKAISE	^ວ 75
LOC_Os12g02450_wrky64 Hwrky64	220 . VCCDHRAALRE	IARGQ:	230 SLVTQLR SLVTQLR	240 • • • • • • • AIVLPALHSI AIVLPALHSI	250 . DERGDLAAQ DERGDLAAQ	260 	270 MLEGILDC: MLEGILDC:	280 • • • • SRKAISE SRKAISE	0 75 75
LOC_Os12g02450_WRKY64 HWRKY64 T_WRKY64	220 VCCDHRAALRE VCCDHRAALRE	IARGQ: LIARGQ: LIARGQ: LIAKGQ:	230 SLVTQLR SLVTQLR SLVTQLR	240 . AIVLPALHSI AIVLPALHSI AIVLPALHSI	250 • • • • • • • • PERGDLAAQ PERGDLAAQ PERCDLAAQ	260	270 MLEGILDC: MLEGILDC: MLEGILDC:	280 • • • • SRKAISE SRKAISE SRKAVSQ	75 75 75 75
LOC_Os12g02450_WRKY64 HWRKY64 T_WRKY64 LOC_Os03g21710_WRKY79	220 VCCDHRAALRE VCCDHRAALRE VCCDHRAALRE RVAAAVNDLVE	EIARGQS EIARGQS EIAKGQS EVRDG	230 SLVTQLR SLVTQLR SLVTQLR SLVTQLR LVRLR	240 AIVLPALHSI AIVLPALHSI GFLPPPPQAI	250 ERGDLAAQ ERGDLAAQ ERCDLAAQ QSSSRPPC	260 	270 MLEGILDC: MLEGILDC: MLEGILDC: MLEGILDC	280 SRKAISE SRKAISE SRKAVSQ MSKLMSA	75 75 75 75 65
LOC_Os12g02450_WRKY64 HWRKY64 T_WRKY64 LOC_Os03g21710_WRKY79 H_WRKY79 MURKY79	220 VCCDHRAALRE VCCDHRAALRE VCCDHRAALRE RVAAAVNDLVE RVAAAVNDLVE	LIARGQ: LIARGQ: LIARGQ: LIAKGQ: LVRDG LVRDG	230 SLVTQLR SLVTQLR SLVTQLR -LVRLR -LVRLR	240 AIVLPALHSI AIVLPALHSI AIVLPALHSI GFLPPPPQAI GFLPPPPQAI GFLPPPPQAI	250 ERGDLAAQ ERGDLAAQ ERGDLAAQ QSSSRPPC QSSSRPPC	260	270 	280 SRKAISE SRKAISE SRKAVSQ MSKLMSA MSKLMSA	75 75 75 65 65
LOC_Os12g02450_WRKY64 HWRKY64 T_WRKY64 LOC_Os03g21710_WRKY79 H_WRKY79 T_WRKY79 LOC_Os05g49620_WBKY19	220 VCCDHRAALRE VCCDHRAALRE VCCDHRAALRE RVAAAVNDLVE RVAAAVNDLVE RVAAAVNDLVE RVAAAVNDLVE	EIARGQS EIARGQS EIARGQS EVRDG EVRDG EVRDG	230 SLVTQLR SLVTQLR SLVTQLR LVRLR LVRLR LARLR	240 AIVLPALHSI AIVLPALHSI GFLPPPPQAI GFLPPPPQAI GFLPPPPQAI	250 PERGDLAAQ PERGDLAAQ PERCDLAAQ QSSSRPPC QSSSRPPC QSSSRPPC	260 • • • • • • •	270 MLEGILDC: MLEGILDC: AREIMDATI AREIMDATI 	280 SRKAISE SRKAISE SRKAVSQ MSKLMSA MSKLMSA MSKLMSA	75 75 75 65 65 65
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LOC_Os12g02450_WRKY64 HWRKY64 T_WRKY64 LOC_Os03g21710_WRKY79 H_WRKY79 LOC_Os05g49620_WRKY19 H_WRKY19 T WRKY19	220 VCCDHRAALRE VCCDHRAALRE VCCDHRAALRE RVAAAVNDLVE RVAAAVNDLVE RVAAAVNDLVE RVAAAVNDLVE MLATELAQLRA MLATELAQLRA MLATELAQLRA	EIARGQ: EIARGQ: EIAKGQ: EVRDG EVRDG EVRDG AMARE AMARE	230 SLVTQLR SLVTQLR SLVTQLR -LVRLR -LVRLR -LARLR -LARLR -LARLR -LARLR	240 AIVLPALHSI AIVLPALHSI GFLPPPQAI GFLPPPQAI GFLPPPQAI GFLPPPQAI AKMDPDRVA3 AKMDPDRVA3	250 ERGDLAAQ ERGDLAAQ ERCDLAAQ QSSSRPPC QSSSRPPC QSSSRPPC RELCRA RELCRA	260 	270 	280 SRKAISE SRKAISE SRKAVSQ MSKLMSA MSKLMSA MSKLMSA IRLAASC IRLAASC IRLAASC	75 75 75 65 65 65 61 61
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LOC_OS12g02450_WRKY64 HWRKY64 T_WRKY64 LOC_OS03g21710_WRKY79 H_WRKY79 T_WRKY79 LOC_OS05g49620_WRKY19 H_WRKY19 LOC_OS05g46020_WRKY07 T_WRKY07 H_WRKY07 LOC_OS01g51690_WRKY26	220 VCCDHRAALRE VCCDHRAALRE RVAAAVNDLVE RVAAAVNDLVE RVAAAVNDLVE RVAAAVNDLVE MLATELAQLRA MLATELAQLRA MLATELAQLRA YHHPVSGLSAE YHHPVSGLSAE YHHPVSGLSAE	EIARGQ: EIARGQ: EIARGQ: EVRDG EVRDG EVRDG EVRDG AMARE AMARE PAGDAA PAGDAA PAGDAA PAGDAA	230 SLVTQLR SLVTQLR SLVTQLR -LVRLR -LVRLR -LARLR -LARLR -LE SLOP SSSWA	240 AIVLPALHSI AIVLPALHSI GFLPPPPQAI GFLPPPPQAI GFLPPPPQAI AKMDPDRVAI AKMDPDRVAI AKMDPDRVAI 	250 ERGDLAAQ ERGDLAAQ QSSSRPPC QSSSRPPC QSSSRPPC RELCRA SSTSSS SSTSSS GASGSGSSGSGY	260	270 MLEGILDC: MLEGILDC: MLEGILDC: AAELMDATI AAELMDATI AAELMDATI AAELMDATI LASSVDRS: SFSAALAAATTI SFSAALAAATTI SFSAALAAATTI SFSAALAAATTI SFSAALAAATTI	280 SRKAISE SRKAISE SRKAVSQ MSKLMSA MSKLMSA MSKLMSA IRLAASC IRLAASC IRLAASC PPLPDPS PPLPDPS PPLPDPS PPLPDPS DLLDYLS	75 75 65 65 61 61 63 63 63 82
LOC_OS12g02450_WRKY64 HWRKY64 T_WRKY64 LOC_OS03g21710_WRKY79 H_WRKY79 T_WRKY79 LOC_OS05g49620_WRKY19 H_WRKY19 LOC_OS05g46020_WRKY07 T_WRKY07 H_WRKY07 LOC_OS01g51690_WRKY26 H_WRKY26	2200 VCCDHRAALRE VCCDHRAALRE RVAAAVNDLVE RVAAAVNDLVE RVAAAVNDLVE RVAAAVNDLVE MLATELAQLRA MLATELAQLRA MLATELAQLRA YHHPVSGLSAE YHHPVSGLSAE YHHPVSGLSAE FNFCRHGSHAE	STARGQ: STARGQ: STARGQ: STRDG SVRDG SVRDG SVRDG SVRDG AMARE AMARE AMARE AMARE STD-AVI STD-AVI	230 SLVTQLR SLVTQLR SLVTQLR -LVRLR -LVRLR -LARLR -LARLR -LE SSSWA YSMS YSMS FSSSWA	240 AIVLPALHSI AIVLPALHSI GFLPPPPQAI GFLPPPPQAI GFLPPPPQAI AKMDPDRVAI AKMDPDRVAI AKMDPDRVAI SYFSHGC SYFSHGC RRFSAAPHGC RRFSAAPHGC	250 ERGDLAAQ ERGDLAAQ QSSSRPPC QSSSRPPC QSSSRPPC QSSSRPPC SSSRPC QSSSRPPC	260	270 MLEGILDC: MLEGILDC: MLEGILDC: AAELMDATI AAELMDATI AAELMDATI AAELMDATI AAELMDATI 	280 SRKAISE SRKAISE SRKAVSQ MSKLMSA MSKLMSA MSKLMSA MSKLMSA IRLAASC IRLAASC IRLAASC PPLPDPS PPLPDPS PPLPDPS DLLDYLS DLLDYLS	75 75 75 65 65 61 61 61 63 63 82 82
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LOC_OS12g02450_WRKY64 HWRKY64 T_WRKY64 LOC_OS03g21710_WRKY79 H_WRKY79 T_WRKY79 T_WRKY79 LOC_OS05g49620_WRKY19 H_WRKY19 LOC_OS05g46020_WRKY07 T_WRKY07 LOC_OS01g51690_WRKY26 H_WRKY26 H_WRKY26 H_WKKY77 LOC_OS01g40260_WRKY77 LOC_OS01g40260_WRKY77 LOC_OS01g53260_WRKY70 H_WRKY70 LOC_OS01g53260_WRKY23 H_WRKY23 T_WRKY23 T_WRKY28 H_WRKY58 LOC_OS05g45230_WRKY58 LOC_OS05g45230_WRKY58 LOC_OS05g45230_WRKY58 LOC_OS05g45230_WRKY58 LOC_OS05g45230_WRKY28 H_WRKY28	2200 VCCDHRAALRE VCCDHRAALRE RVAAAVNDLVE SLSESPAEVRO SLSESPAEVRO SLSESPAEVRO RQOSRRSSDDO RQOSRRSSDDO RQOSRRSSDDO RQOSRRSSDDO PLAVAPAASAT PLAVAPAASAT PLAVAPAASAT PLAVAPAASAT MAALSPAGDDW WAALSPAGDDW VEALEAELRRA VEALEAELRRA	STARGO ST	230 SLVTQLR SLVTQLR SLVTQLR -LVRLR -LVRLR -LVRLR -LVRLR -LVRLR -LARLR -LARLR -LARLR -LARLR SSUTQLR SSUTCR	240 AIVLPALHSI AIVLPALHSI GFLPPPQAI GFLPPPQAI GFLPPPQAI GFLPPPQAI GFLPPPQAI AKMDPDRVAI AKMDPDRVAI AKMDPDRVAI AKMDPDRVAI CONTRACTOR AKMDPDRVAI CONTRACTOR CONTRA	250 ERGDLAAQ ERGDLAAQ ERCDLAAQ ERCDLAAQ QSSSRPPC QSSSRPPC QSSSRPPC RELCRA R RELCRA R	260 	270 	286 SRKAISE SRKAISE SRKAISE SRKAVSQ MSKLMSA MSKLMSA MSKLMSA MSKLMSA IRLAASC IRLAAS	0 75 75 65 65 61 61 63 82 67 67 280 280 280 280 280 280 280 285 77 77 77 77 777 1777
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LOC_OS12g02450_WRKY64 HWRKY64 T_WRKY64 LOC_OS03g21710_WRKY79 H_WRKY79 T_WRKY79 T_WRKY19 LOC_OS05g49620_WRKY19 H_WRKY19 LOC_OS05g46020_WRKY07 T_WRKY07 LOC_OS01g51690_WRKY26 H_WRKY26 H_WRKY26 H_WRKY70 LOC_OS01g40260_WRKY77 LOC_OS01g40260_WRKY77 LOC_OS01g53260_WRKY70 H_WRKY70 LOC_OS01g53260_WRKY23 H_WRKY23 T_WRKY23 T_WRKY28 H_WRKY28 LOC_OS05g45230_WRKY58 LOC_OS06g44010_WRKY28 H_WRKY28 T_WRKY28 T_WRKY28 T_WRKY28 T_WRKY28 T_WRKY26 H_WRKY26 LOC_OS09g25070_WRKY62 LOC_OS09g25070_WRKY62	2200 VCCDHRAALRE VCCDHRAALRE RVAAAVNDLVE SLSESPAEVRO SLSESPAEVRO SLSESPAEVRO RQOSRRSSDDO PLAVAPAASAT PLAVAPAASAT PLAVAPAASAT PLAVAPAASAT PLAVAPAASAT MAALSPAGDDW MAALSPAGDDW WAALSPAGDDW VEALEAELRRE VEALEAELRRE AEDLEEKLRRE	STARGO ST	230 SLVTQLR SLVTQLR -LVRLR -LVRLR -LVRLR -LVRLR -LVRLR -LARLR -LARLR -LARLR -LARLR LE SSMS YSMS	240 AIVLPALHSI AIVLPALHSI GFLPPPQAI GFLPPPQAI GFLPPPQAI GFLPPPQAI GFLPPPQAI GFLPPPQAI AKMDPDRVAI AKMDPDRVAI AKMDPDRVAI AKMDPDRVAI CONTRACTOR AKMDPDRVAI CONTRACTOR CONTRAC	250 ERGDLAAQ ERGDLAAQ ERCDLAAQ QSSSRPPC QSSSRPPC QSSSRPC QSSSRPC SSTSS RELCRA SSTSSS SSTSSS GASGSGSGSGY GASGSGSGSGY GASGSGSGSGY DAVSSY DAVSSY DAVSSY DAVSSY DAVSSY DAVSSY CTFPGCPTKKK	260 	270 MLEGILDC: 	286 SRKAISE SRKAISE SRKAISE SRKAVSQ MSKLMSA MSKLMSA MSKLMSA IRLAASC I	75 75 65 65 61 61 63 82 82 67 67 280 280 280 95 77 77 77 77 77 77 77 77 77 77 77 77 77
LOC_OS12g02450_WRKY64 HWRKY64 T_WRKY64 LOC_OS03g21710_WRKY79 H_WRKY79 T_WRKY79 T_WRKY19 LOC_OS05g49620_WRKY19 H_WRKY19 LOC_OS05g46020_WRKY07 T_WRKY07 LOC_OS01g51690_WRKY26 H_WRKY26 H_WRKY26 H_WRKY77 LOC_OS01g40260_WRKY77 LOC_OS01g40260_WRKY77 LOC_OS01g53260_WRKY70 H_WRKY70 LOC_OS01g53260_WRKY23 T_WRKY23 T_WRKY23 T_WRKY28 H_WRKY28 H_WRKY28 H_WRKY28 T_WRKY26 LOC_OS09g25070_WRKY62 LOC_OS09g25070_WRKY62 LOC_OS09g25060_WRKY76	2200 VCCDHRAALRE VCCDHRAALRE RVAAAVNDLVE SLSESPAEVRO SLSESPAEVRO SLSESPAEVRO RQOSRRSSDDO PLAVAPAASAT PLAVAPAASAT PLAVAPAASAT PLAVAPAASAT PLAVAPAASAT PLAVAPAASAT PLAVAPAASAT VEALEAELRRA VEALEAELRRA VEALEAELRRA AEDLEEKLRRA ELLDRPACCO	EIARGQ: EIARGQ: EIARGQ: EIARGQ: EIARGQ: EVRDG EVRDG AMARE AMARE AMARE AMARE AMARE PAGDAA PAGD	230 SLVTQLR SLVTQLR SLVTQLR SLVTQLR - LVRLR - LVRLR - LVRLR - LVRLR - LR - LR - LR LE LE LE LE LE SSWA FSGSWA FSGSWA FSGSWA FSGSWA FSGSWA YAGEDVVI Y	240 AIVLPALHSI AIVLPALHSI GFLPPPQAI GFLPPPQAI GFLPPPQAI GFLPPPQAI AKMDPDRVAI AKMDPDRVAI SYFSHGC SYFSHGC SYFSHGC SYFSHGC RRPSAPHGC RRPSAPHGC RRPSAPHGC DDDDDMAAVI GSENPRSYI GSENPRSYI PDGGSAAGG PDGGSAAGG PDGGSAAGG AVVAKYTELC AILAGHHAHC 	250 DERGDLAAQ DERGDLAAQ DERCDLAAQ QSSSRPPC QSSSRPPC QSSSRPC QSSSRPC QSSSRPC QSSSRPC SSTSS RELCRA SSTSSS SSTSSS GASGSGSGSGY GASGS DAVSSY DAVSSY DAVSSY DAVSSY DAVSSY DAVSSY DAVSSY CTFPGCPTKKK CTFPGCPTKK CTFPGCPTKK CTFPGCPTKK CTFPGCPTKK CTFPGCPTK	260 	270 MLEGILDC: 	280 SRKAISE SRKAISE SRKAISE SRKAVSQ MSKLMSA MSKLMSA MSKLMSA MSKLMSA IRLAASC IRLAASC IRLAASC IRLAASC IRLAASC IRLAASC IRLAASC IRLAASC IRLAASC IRLAASC IRLAASC IRLAASC PPLPDPS PLPDPS DLLDYLS DLLDYLS DLLDYLS PEVGFHS PEVGFHS PEVGFHS PEVGFHS PEVGFHS MPKPPQN HPKPPQN HPKPPQN HPKPPQN DWQSLLQ DWQSLLQ DWQSLLQ DWQSLLQ DWQSLLQ DWQSLLQ DWQSLLQ SPSRKRI SPSRKRI SPSRKRI SPSRKRI SPSRKRI SPSRKRI	75 75 65 65 61 61 63 82 82 67 67 280 280 95 77 77 77 77 77 77 77 77 177 80 1 77 107
LOC_OS12g02450_WRKY64 HWRKY64 T_WRKY64 LOC_OS03g21710_WRKY79 H_WRKY79 T_WRKY79 LOC_OS05g49620_WRKY19 H_WRKY19 LOC_OS05g46020_WRKY07 T_WRKY07 LOC_OS01g51690_WRKY26 H_WRKY27 T_WRKY26 H_WRKY27 LOC_OS01g40260_WRKY77 LOC_OS01g40260_WRKY77 LOC_OS01g40260_WRKY77 LOC_OS01g53260_WRKY70 H_WRKY70 T_WRKY70 T_WRKY70 T_WRKY70 T_WRKY23 T_WRKY23 T_WRKY28 H_WRKY28 H_WRKY28 LOC_OS05g45230_WRKY58 H_WRKY26 H_WRKY26 H_WRKY26 H_WRKY76 WRKY76 WRKY76	2200 VCCDHRAALRE VCCDHRAALRE RVAAAVNDLVE SLSESPAEVRO SLSESPAEVRO SLSESPAEVRO RQOSRRSSDDO PLAVAPAASAT PLAVAPAASAT PLAVAPAASAT PLAVAPAASAT MAALSPAGDDW MAALSPAGDDW VEALEAELRRA VEALEAELRRA VEALEAELRRA AEDLEEKLRRA ELLDRPAGCRO	ELARGQ: ELARGQ: ELARGQ: ELARGQ: ELARGQ: ELARGQ: ELARGQ: ELARGQ: ELARGQ: ELARGQ: ELARGQ: ELARGQ: AMARE - AMARE - PAGDAA: PAGDAAA: PAGDAAAA: PAGDAAA: PAGDAAA: PAGDAAAA: PAGDAAAA: PAGDAAAA: PAGDAAAA: PAGDAA	230 SLVTQLR SLVTQLR SLVTQLR - LVRLR - LVRLR - LVRLR - LVRLR - LVRLR - LVRLR - LVRLR - LVRLR - LVRLR - LVRLR SSUTQLR SSUTQLR SSUTQLR - LVRLR - LVRLR	240 AIVLPALHSI AIVLPALHSI GFLPPPQAI GFLPPPQAI GFLPPPQAI GFLPPPQAI AKMDPDRVAI AKMDPDRVAI AKMDPDRVAI SYFSHGG SYFSHGG SYFSHGG SYFSHGG RRPSAAPHGG RRPSAAPHGG RRPSAAPHGG SENPRSYI GSENPRSYI GSENPRSYI DDDDDMAAVI DDDDDMAAVI DDDDDMAAVI DDDDDMAAVI DDDDDMAAVI DDDDDMAAVI DDDDDMAAVI DDDDDMAAVI DDDDDMAAVI GSENPRSYI GSENPRSYI GSENPRSYI DGGSAAGG PDGGSAAGG PDGGSAAGG PDGGSAAGG AVVAKYTELG AVVAKYTELG ALLAGHHAHG KIVEAKVTQD	250 	260 	270 MLEGILDC: MLEGILDC: MLEGILDC: 	280 SRKAISE SRKAISE SRKAISE SRKAVSQ MSKLMSA MSKLMSA MSKLMSA IRLAASC IRLAASC IRLAASC IRLAASC IRLAASC IRLAASC IRLAASC IRLAASC IRLAASC PPLPDPS PPLPDPS PLPDPS DLLDYLS DLLDYLS DLLDYLS PEVGFHS PEVGFHS PEVGFHS PEVGFHS PEVGFHS PEVGFHS MHPKPPQN HPKPPQN HPKPPQN HPKPPQN UWQSLLQ AEESSCG AAESSCG AAESSCG SPSRKRI SPSRKRI SPSRKRI SPSRKRI PPPPSAT 	75 75 65 65 61 61 63 82 82 69 67 67 2800 95 77 77 77 77 77 77 77 77 77 77 77 77 77

	290		300	310	3	20	330	340	350	
LOC 0=12002450 WEKY64	LOLOLSSDSPH					KA AFDUNAI				125
HWRKY64	LOLOLSSDSPHI		DDKRRVRI	TVSSSSDI	DDHSSS	KAAEDHNAI	CPLROHKRE	REGD		135
T WRKY64	LOLLISSPHDDI	DDHHHV	DDKRRVRI	TISSS-DI	DDDHCSS	KAAEDHNA	PLROHKRE	REGD		134
LOC Os03g21710 WRKY79	MATLGGSGI	DIAGEV	DAAGRWT	VAESADPI	MVVRREG	ESSAGRTR	RRGGGSRS	GRGR		122
H WRKY79	MATLGGSG	DIAGEV	DAAGRWT	VAESADP	MVVRREG	ESSAGRTR	RRRGGGSRS	GRGR		122
T WRKY79	MATLGGSGI	DIAGEV	DAAGRWT:	VAESADP	MVVRREG	ESSAGRTRI	RRRGGGSRS	GRGR		122
LOC_Os05g49620_WRKY19	FPPP		EHPPPAA	NAGRDAAI	FKKR		KGMAKVE	RRQVR		95
H_WRKY19	FPPP		EHPPPAA	NAGRDAAI	FKKRQVM	VPGHGGLI:	GKGMAKVI	RRQVR		108
T_WRKY19	FPPP		EHPPPAA	INAGRDAAI	FKKRQVM	VPGHGGLI:	GKGMAKV	RRQVR		108
LOC_Os05g46020_WRKY07	GSQFDISEFFF	DDAPPA	AVFNGAP!	[<mark>AA</mark>]	LPDGAAA	NATRSI	AAEAVPAP	APAAV		115
T_WRKY07	GSQFDISEFFF	DDAPPT	AVFNGAP:	'AAI	LPDGAAA	NATRS	AEAVPAP	APAAV		115
H_WRKY07	GSQFDISEFFF	DDAPP-	AGAP	[AA]	LPDGAAA	NATRS	AAEAVPAP	APAAV		111
LOC_Os01g51690_WRKY26	DDQGVPAPPP-	AAVPSA	SYVTPAP	MAPAEPV	VPDAVAA	AGG-YPRS	VAAAAAAVA	GEGR		140
H_WRKY26	DDQGVPAPPP-	AAVPSA	SYVTPAP	MAPAEPV	VPDAVAA	AGG-YPRS	VAAAAAAVA	GEGR		140
T_WRKY26	DDQGVPAPPPP	AAVPSA	SYVTPAP	MGPAEPV	VPDAVAA	AGGGYPRS		AGEGR		129
H_WEKI//	KOHNPPPV	AAAPLE	AGGGREQ	RR	EAAV		PAPVSGGA			116
1_WKK1//	KOHNPPPV		ACCOREO			NLGRMDRG	PUSCON	ATGGV		116
LOC_0s05g39720_WRK177	GROBOGSGVAL	HCCAAS	DAVSSAD	T.SCTPUA	TPENSSA	SECODEAV	UCUSSSI.RI	ASSVGGGEDI		350
H WRKY70	GRORGGSGYAL	HCCAAS	DAVSSAD	T.SCTPVA	TPENSSA	SEGDDEAVI	UCVSSSIIN	ASSVGGGEDI		350
T WRKY70	GRGRGGSGYAL	HGGAAS	DAYSSAD	LSGTPVA	TPENSSA	SEGDDEAV	GVSSSLR	ASSVGGGEDI	LDDDE	350
LOC 0s01g53260 WRKY23	TCLOVPPPVLE	OOOPAA	AAOADOY	GENDHGD	LOAAESS	GAGNKEKO	MAKGGAGE	PSGT		155
H WRKY23	TCLOVPPPVLE	OOOPAA	AAOADOY	GENDHGD	LOAAESS	GAGNKEKO	MAKGGAG	RPSGT		155
T WRKY23	TCLOVPPPVLE	000PAA	AAQADQY	GENDHGDI	LQAAESS	GAGNKEKQ	/MAKGGAGE	RPSGK		155
T WRKY58	GSSTVTSSGVT	CAAAAA	ATTTR		R	GRGNGKK-	AGGGG	R		113
H WRKY58	GSSTVTSSGVT		ATTTR		R	GRGNGKK-	AGGGG	R		113
LOC_0s05g45230_WRKY58	GSSTVTSSGVT		ATTTR		R	GRGNGKK	<mark>A</mark> GGGG	R		113
LOC_Os06g44010_WRKY28	RSVDSLDDAAH	HRKPSP	PFVAAAA	AAYASPD	QMECTSA	AAAAAAKR	/VREDCKP	WSKR		237
H_WRKY28	RSVDSLDDAAH	HRKPSP	PFVAAAA	AAYASPD	QMECTSA	AAAAAKR	VVREDCKP1	WSKR		237
T_WRKY28	RSVDSLDDAAHI	HRKPSP	PFVAAAA	AAYASPD	QMECTSA	AAAAAAKR	/VREDCKP	WSKR		237
T_WRKY62	ARAPSVSTSCA	AREDAA	PAVAAAA	ASTACPSR(QQPPTAE	PRPKVRTVI	RVRADAADI	\ Τ		137
H_WRKY62						VRTVI	RVRADAADA	AT		14
LOC_0s09g25070_WRKY62	ARAPSVSTSCA	AREDAA	PAVAAAA	STACPSR	QQPPTAE	PRPKVRTV	RVRADAADI	AT		134
LOC_OSU9925060_WRKY76	SPLSGKKRSRE:	SMETAN	SCDANSN	HOGGDADI	HAESFAA	DDGTCRRI	WSR-VCRI	X1		156
H_WERI/0	MFKPCPF	SMETAN	SCDANSN	HOCCDADI	UNFCENN	DDGTCRRI	WCR-WCR	T		125
	i Entrones.	JAN I AN	SCDANSIN	uõõo n n	IND JE NA	Desicial		~1		120
	360		370	380	3	90	400	410	420	
	360		370 •• ••••	380	3	90 	400	410	420 • • • •	
LOC_Os12g02450_WRKY64	360 .		370 ••• •••••	380 • • • • • • •	3 ••• ••••• VSLETPV	90 PHY <mark>DGHQW</mark> I	400 	410 .	420 • • • • RCTYR	174
LOC_Os12g02450_WRKY64 HWRKY64	360		370 •••	380 	3 VSLETPV VSLETPV	90 PHYDGHQWI PHYDGHQWI	400 	410 INSKHPRSYYI	420 RCTYR RCTYR	174 174
LOC_Os12g02450_WRKY64 HWRKY64 T_WRKY64	360		370 •• ••••	380 5757	3 VSLETPV VSLETPV VSLETPV	90 PHYDGHQWI PHYDGHQWI PHYDGHQWI	400 RKYGQKHIN RKYGQKHIN RKYGQKHIN	410 INSKHPRSYYI INSKHPRSYYI INSKHPRSYYI	420 RCTYR RCTYR RCTYR RCTYR	174 174 173
LOC_Os12g02450_WRKY64 HWRKY64 T_WRKY64 LOC_Os03g21710_WRKY79	360 		370	380 	3 VSLETPV VSLETPV VSLETPV SNKRVAA	90 PHYDGHQWI PHYDGHQWI PHYDGHQWI TLEDGHVWI	400 RKYGQKHIN RKYGQKHIN RKYGQKHIN RKYGQKHIN	410 NSKHPRSYYI NSKHPRSYYI NSKHPRSYYI NSKHPRSYYI	420 RCTYR RCTYR RCTYR RCTYR RCTHK	174 174 173 161
LOC_Os12g02450_WRKY64 HWRKY64 T_WRKY64 LOC_Os03g21710_WRKY79 H_WRKY79	360 		370	380 	3 VSLETPV VSLETPV VSLETPV SNKRVAA	90 PHYDGHQWI PHYDGHQWI PHYDGHQWI TLEDGHVWI TLEDGHVWI	400 RKYGQKHIN RKYGQKHIN RKYGQKDIQ RKYGQKDIQ	410 INSKHPRSYYI INSKHPRSYYI INSKHPRSYYI INSPYPRSYYI INSPYPRSYYI	420 RCTYR RCTYR RCTYR RCTYR RCTHK	174 174 173 161 161
LOC_Os12g02450_WRKY64 HWRKY64 T_WRKY64 LOC_Os03g21710_WRKY79 H_WRKY79 T_WRKY79	360 		370	380 57 57 57 51 51	3 VSLETPV VSLETPV VSLETPV SNKRVAA SNKRVAA SNKRVAA	90 PHYDGHQWI PHYDGHQWI PHYDGHQWI TLEDGHVWI TLEDGHVWI TLEDGHVWI	400 RKYGQKHIN RKYGQKHIN RKYGQKHIN RKYGQKDIG RKYGQKDIG RKYGQKDIG	410 INSKHPRSYYI INSKHPRSYYI INSKHPRSYYI INSPYPRSYYI INSPYPRSYYI INSPYPRSYYI	420 RCTYR RCTYR RCTYR RCTYR RCTHK RCTHK	174 174 173 161 161 161
LOC_Os12g02450_WRKY64 HWRKY64 T_WRKY64 LOC_Os03g21710_WRKY79 H_WRKY79 T_WRKY79 LOC_Os05g49620_WRKY19 H_WRKY19	360 		370	380 	3 VSLETPV VSLETPV VSLETPV SNKRVAA SNKRVAA SNKRVAA TSVQDTA	90 PHYDGHQWI PHYDGHQWI PHYDGHQWI TLEDGHVWI TLEDGHVWI SLDDGLSWI SLDDGLSWI	400 KKYGQKHIN RKYGQKHIN RKYGQKHIY RKYGQKDIG RKYGQKDIG RKYGQKDII RKYGQKDII	410 INSKHPRSYYI INSKHPRSYYI INSKHPRSYYI INSPYPRSYYI INSPYPRSYYI IGAKYPRAYFI	420 RCTYR RCTYR RCTYR RCTHK RCTHK RCTHK RCTHR	174 174 173 161 161 161 134
LOC_Os12g02450_WRKY64 HWRKY64 T_WRKY64 LOC_Os03g21710_WRKY79 H_WRKY79 T_WRKY79 LOC_Os05g49620_WRKY19 H_WRKY19 T_WRKY19	360 		370	380 	3 VSLETPV VSLETPV VSLETPV SNKRVAA SNKRVAA SNKRVAA TSVQDTA TSVQDTA	90 PHYDGHQWJ PHYDGHQWJ PHYDGHQWJ TLEDGHVWJ TLEDGHVWJ SLDDGLSWJ SLDDGLSWJ	400 	410 INSKHPRSYYI INSKHPRSYYI INSKHPRSYYI INSPYPRSYYI INSPYPRSYYI LGAKYPRAYFI LGAKYPRAYFI	420 RCTYR RCTYR RCTYR RCTHK RCTHK RCTHK RCTHR RCTHR	174 174 173 161 161 134 147
LOC_Os12g02450_WRKY64 HWRKY64 T_WRKY64 LOC_Os03g21710_WRKY79 H_WRKY79 T_WRKY79 LOC_Os05g49620_WRKY19 H_WRKY19 T_WRKY19 LOC_Os05g46020_WRKY07	360 		370 	380 	3 VSLETPV VSLETPV SNKRVAA SNKRVAA SNKRVAA TSVQDTA TSVQDTA TSVQDTA TSVQDTA RTKSEIE	90 PHYDGHQWJ PHYDGHQWJ PHYDGHQWJ TLEDGHVWJ TLEDGHVWJ SLDDGLSWJ SLDDGLSWJ SLDDGLSWJ	400 RKYGQKHIN RKYGQKHIN RKYGQKDIQ RKYGQKDIQ RKYGQKDII RKYGQKDII RKYGQKDII RKYGQKDII	410 INSKHPRSYYI INSKHPRSYYI INSKHPRSYYI INSPYPRSYYI INSPYPRSYYI LGAKYPRAYFI LGAKYPRAYFI INSPNPRNYYI	420 RCTYR RCTYR RCTYR RCTHK RCTHK RCTHK RCTHR RCTHR RCTHR RCTHR	174 174 173 161 161 134 147 147 163
LOC_Os12g02450_WRKY64 HWRKY64 LOC_Os03g21710_WRKY79 H_WRKY79 LOC_Os05g49620_WRKY19 H_WRKY19 T_WRKY19 LOC_Os05g46020_WRKY07 T WRKY07	360 		370 	380 	3 VSLETPV VSLETPV SNKRVAA SNKRVAA SNKRVAA TSVQDTA TSVQDTA TSVQDTA TSVQDTA RTKSEIE RTKSEIE	90 PHYDGHQWJ PHYDGHQWJ PHYDGHQWJ TLEDGHVWJ TLEDGHVWJ SLDDGLSWJ SLDDGLSWJ SLDDGLSWJ ILDDGYKWJ	400 RKYGQKHIN RKYGQKHIN RKYGQKDIQ RKYGQKDIQ RKYGQKDII RKYGQKDII RKYGQKDII RKYGQKDII RKYGKKSVN	410 INSKHPRSYYI INSKHPRSYYI INSKHPRSYYI INSPYPRSYYI INSPYPRSYYI IGAKYPRAYFI IGAKYPRAYFI INSPNPRNYYI INSPNPRNYYI	420 RCTYR RCTYR RCTYR RCTHK RCTHK RCTHK RCTHR RCTHR RCTHR RCTHR RCTHR	174 173 161 161 161 134 147 147 163 163
LOC_Os12g02450_WRKY64 HWRKY64 LOC_Os03g21710_WRKY79 H_WRKY79 LOC_Os05g49620_WRKY19 H_WRKY19 T_WRKY19 LOC_Os05g46020_WRKY07 T_WRKY07 H WRKY07	360 		370 	380 	3 VSLETPV. VSLETPV. VSLETPV. SNKRVAA SNKRVAA SNKRVAA SNKRVAA TSVQDTA TSVQDTA TSVQDTA TSVQDTA RTKSEIE RTKSEIE RTKSEIE	90 PHYDGHQWJ PHYDGHQWJ PHYDGHQWJ TLEDGHVWJ TLEDGHVWJ SLDDGLSWJ SLDDGLSWJ ILDDGYKWJ ILDDGYKWJ ILDDGYKWJ	400 RKYGQKHIN RKYGQKHIN RKYGQKDIG RKYGQKDIG RKYGQKDIG RKYGQKDII RKYGQKDII RKYGKSVN RKYGKKSVN RKYGKKSVN	410 INSKHPRSYYI INSKHPRSYYI INSKHPRSYYI INSPYPRSYYI INSPYPRSYYI IGAKYPRAYFI IGAKYPRAYFI INSPNPRNYYI INSPNPRNYYI INSPNPRNYYI	420 CTYR RCTYR RCTYR RCTHK RCTHK RCTHK RCTHR RCTHR RCTHR RCTHR RCTHR RCTHR	174 173 161 161 161 134 147 163 163 163
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LOC_Os12g02450_WRKY64 HWRKY64 T_WRKY64 LOC_OS03g21710_WRKY79 H_WRKY79 LOC_OS05g49620_WRKY19 H_WRKY19 T_WRKY19 LOC_OS05g46020_WRKY07 T_WRKY07 H_WRKY07 LOC_OS01g51690_WRKY26 H_WRKY26	360 		370 	380 	3 VSLETPV. VSLETPV. VSLETPV. VSLETPV. SNKRVAA SNKRVAA SNKRVAA SNKRVAA SNKRVAA TSVQDTA TSVQDTA TSVQDTA TSVQDTA TSVQDTA RTKSEIE RTKSEIE RTKSEIE RTKSDDE	90 PHYDGHQWJ PHYDGHQWJ PHYDGHQWJ TLEDGHVWJ TLEDGHVWJ SLDDGLSWJ SLDDGLSWJ ILDDGYKWJ ILDDGYKWJ ILDDGYKWJ ILDDGYKWJ ILDDGYKWJ	400 RKYGQKHIN RKYGQKHIN RKYGQKDIY RKYGQKDIY RKYGQKDIY RKYGQKDII RKYGQKDII RKYGKSVF RKYGKKSVF RKYGKKSVF RKYGKKSVF RKYGKKSVF RKYGKKSVF	410 INSKHPRSYYI INSKHPRSYYI INSKHPRSYYI INSYPRSYYI INSYPRSYYI INSPYPRSYYI IGAKYPRAYFI IGAKYPRAYFI IGAKYPRAYFI INSPNPRNYYI INSPNPRNYYI INSPNPRNYYI INSPNPR-YFI INSPNPR-YFI	420 RCTYR RCTYR RCTYR RCTHK RCTHK RCTHK RCTHR RCTHR RCTHR RCSTE RCSTE RCSTE RCSTE RCSTE	174 174 173 161 161 161 134 147 163 163 159 188 185
LOC_Os12g02450_WRKY64 HWRKY64 T_WRKY64 LOC_OS03g21710_WRKY79 H_WRKY79 LOC_OS05g49620_WRKY19 H_WRKY19 T_WRKY19 LOC_OS05g46020_WRKY07 T_WRKY07 H_WRKY07 LOC_OS01g51690_WRKY26 H_WRKY26 T_WRKY26	360 		370 	380 	3 VSLETPV. VSLETPV. VSLETPV. VSLETPV. SNKRVAA SNKRVAA SNKRVAA TSVQDTA TSVQDTA TSVQDTA TSVQDTA TSVQDTA RTKSEIE RTKSEIE RTKSEIE RTKSDDE RTRSDDE	90 PHYDGHQWI PHYDGHQWI PHYDGHQWI TLEDGHVWI SLDDGLSWI SLDDGLSWI SLDDGLSWI ILDDGYKWI ILDDGYKWI ILDDGYKWI ILDDGYKWI ILDDGYKWI ILDDGYKWI ILDDGYKWI	400 RKYGQKHIN RKYGQKHIN RKYGQKDIY RKYGQKDIY RKYGQKDIY RKYGQKDII RKYGQKDII RKYGQKDII RKYGKKSVF RKYGKKSVF RKYGKKSVF RKYGKKSVF RKYGKKSVF RKYGKKSVF	410 INSKHPRSYYI INSKHPRSYYI INSKHPRSYYI INSKHPRSYYI INSPYPRSYYI INSPYPRSYYI INSPYPRSYYI INSPYPRAYFI INSPYPRNYYI INSPYPRNYYI INSPYPRNYYI INSPYPRNYYI INSPYPRYYI INSPYPRYYI INSPYPRYYI INSPYPRYYI INSPYPRYYYI INSPYPRYYYI INSPYPRYYYI INSPYPRYYYI	420 RCTYR RCTYR RCTYR RCTHK RCTHK RCTHK RCTHR RCTHR RCSTE RCSTE RCSTE GTS RCSTE	174 173 161 161 134 147 163 163 159 188 185 177
LOC_Os12g02450_WRKY64 HWRKY64 T_WRKY64 LOC_OS03g21710_WRKY79 H_WRKY79 LOC_OS05g49620_WRKY19 H_WRKY19 T_WRKY19 LOC_OS05g46020_WRKY07 T_WRKY07 H_WRKY07 LOC_OS01g51690_WRKY26 H_WRKY26 T_WRKY26 H_WRKY77	360 		370 	380 ST ST ST ST ST ST ST ST ST ST	3 VSLETPV. VSLETPV. VSLETPV. SNKRVAA SNKRVAA SNKRVAA TSVQDTA TSVQDTA TSVQDTA TSVQDTA RTKSEIE RTKSEIE RTKSEIE RTKSDDE RTRSDDE RTRSDDE RTRSDDE	90 PHYDGHQWI PHYDGHQWI PHYDGHQWI TLEDGHVWI SLDDGLSWI SLDDGLSWI SLDDGLSWI ILDDGYKWI ILDDGYKWI ILDDGYKWI ILDDGYKWI ILDDGYKWI ILDDGYKWI	400 RKYGQKHIN RKYGQKHIN RKYGQKDIQ RKYGQKDIQ RKYGQKDIQ RKYGQKDII RKYGQKDII RKYGKKSVF RKYGKSVF RKYGKKSVF RKYGKSVF RKYGKSVF RKYGK RKY RKYGK RKY RKYGK RKY RKY RKY RKY RKY RKY RKY RK	410 INSKHPRSYYI INSKHPRSYYI INSKHPRSYYI INSKHPRSYYI INSPYPRSYYI INSPYPRSYYI IGAKYPRAYFI IGAKYPRAYFI INSPNPRNYYI INSPNPRNYYI INSPNPRNYYI INSPNPRNYYI INSPNPRNYYI INSPNPRNYYI INSPNPRNYYI INSPNPRNYYI INSPNPRNYYI INSPNPRNYYI INSPNPRNYYI INSPNPRNYYI INSPNPRNYYI INSPNPRNYYI	420 RCTYR RCTYR RCTYR RCTHK RCTHK RCTHK RCTHR RCTHR RCTHR RCTHR RCTHR RCTHR RCTHR RCTHR RCTHR RCTHR RCTHR RCTHR RCTHR RCTHR RCTHR RCTYR	174 174 173 161 161 134 147 163 159 188 185 177 165
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LOC_Os12g02450_WRKY64 HWRKY64 T_WRKY64 LOC_OS03g21710_WRKY79 H_WRKY79 LOC_OS05g49620_WRKY19 H_WRKY19 LOC_OS05g46020_WRKY07 T_WRKY17 LOC_OS01g51690_WRKY26 H_WRKY26 T_WRKY26 H_WRKY27 T_WRKY77 LOC_OS01g40260_WRKY77	360 		370 	380 STANDARD	3 VSLETPV. VSLETPV. VSLETPV. VSLETPV. SNKRVAA SNKRVAA SNKRVAA TSVQDTA TSVQDTA TSVQDTA TSVQDTA TSVQDTA RTKSEIE RTKSEIE RTKSEIE RTKSEIE RTKSDDE RTKSDDE KTKSEVD KTKSEVD	90 PHYDGHQWI PHYDGHQWI PHYDGHQWI TLEDGHVWI TLEDGHVWI SLDDGLSWI SLDDGLSWI SLDDGLSWI ILDDGYKWI ILDDGYKWI ILDDGYKWI VLDDGYRWI VLDDGYRWI VLDDGYRWI	400 RKYGQKHIN RKYGQKHIN RKYGQKDIQ RKYGQKDIQ RKYGQKDII RKYGQKDII RKYGQKDII RKYGKSVF RKYGKKSVF RKYGKKSVF RKYGKKSVF RKYGKKSVF RKYGKKSVF RKYGKKSVF RKYGKKSVF RKYGKKSVF RKYGKKSVF RKYGKKSVF RKYGKKNF RKYGK RKYGKKNF RKYGK RKY RKYGK RKYGK RKY RKYGK RKY RKY RKY RKY RKY RKY RKY RK	410 INSKHPRSYYI INSKHPRSYYI INSKHPRSYYI INSKHPRSYYI INSYPRSYYI INSYPRSYYI IGAKYPRAYFI IGAKYPRAYFI INSPNPRNYYI INSPNPRNYYI INSPNPRNYYI INSPNPRNYYI INSPNPRNYYI INSPNPRNYYI INSPNPRNYYI INSPNPRNYYI INSPNPRNYYI INSPNPRNYYI INSPNPRNYYI	420 RCTYR RCTYR RCTYR RCTHK RCTHK RCTHK RCTHR RCTHR RCTHR RCTHR RCTHR RCSTE RCSTE RCSTE RCSTE RCSTE RCSSE RCSSE	174 174 173 161 161 134 147 163 163 159 188 185 177 165 165
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Loc_os12g02450_WRKY64 HWRKY64 T_WRKY64 Loc_os03g21710_WRKY79 H_WRKY79 T_WRKY79 Loc_os05g49620_WRKY19 H_WRKY19 Loc_os05g46020_WRKY07 T_WRKY19 Loc_os05g46020_WRKY07 H_WRKY07 Loc_os01g51690_WRKY26 H_WRKY26 T_WRKY26 H_WRKY26 T_WRKY77 Loc_os01g40260_WRKY77 Loc_os05g39720_WRKY70 H_WRKY70 T_WRKY70 T_WRKY70 T_WRKY70 T_WRKY70 T_WRKY23 T_WRKY23 T_WRKY28 H_WRKY28 H_WRKY28 T_WRKY28 T_WRKY28 T_WRKY26 Loc_os05g45230_WRKY58 Loc_os05g45230_WRKY58 Loc_os05g45230_WRKY58 Loc_os05g45230_WRKY58 Loc_os05g45230_WRKY58 Loc_os05g45230_WRKY58 Loc_os05g45230_WRKY58 Loc_os05g45230_WRKY58 H_WRKY28 T_WRKY28 T_WRKY28 T_WRKY26 Loc_os05g25070_WRKY62 Loc_os05g25070_WRKY62	360		370 	380 380 380 380 381 382 383 383 383 383 383 383 383	3 VSLETPV. VSLETPV. VSLETPV. VSLETPV. VSLETPV. VSLETPV. VSLETPV. SNKRVAA SNKRVAA TSVQDTA TSVQDTA TSVQDTA TSVQDTA TSVQDTA TSVQDTA TSVQDTA TSVQDTA TSVQDTA QTSDDD QTMSDID QTMSMAE DANSMAE	90 PHYDGHQWI PHYDGHQWI PHYDGHQWI TLEDGHVWI TLEDGHVWI SLDDGLSWI SLDDGLSWI SLDDGLSWI SLDDGYKWI ILDDGYKWI ILDDGYKWI ILDDGYRWI ILDGYRWI INN INN INN INN INN INN INN I	400 RKYGQKHIN RKYGQKHIN RKYGQKDIQ RKYGQKDIQ RKYGQKDIQ RKYGQKDII RKYGQKDII RKYGKSVP RKYGKSVP RKYGKSVP RKYGKSVP RKYGKSVP RKYGKSVP RKYGKSVP RKYGKSVP RKYGKSVP RKYGQKVVP RKYGQKAVP RKYGQKAVP RKYGQKAVP RKYGQKAVP RKYGQKAVP RKYGQKAVP RKYGQKAVP RKYGQKAVP RKYGQKAVP RKYGQKAVP RKYGQKAVP RKYGQKAVP RKYGQKAVP RKYGQKAVP RKYGQKVTP RKYGQKVTP RKYGQKVTP	410 INSKHPRSYYI INSKHPRSYYI INSKHPRSYYI INSKHPRSYYI INSPYPRSYYI INSPYPRSYYI IGAKYPRAYFI IGAKYPRAYFI IGASPNPRNYYI INSPNPRNYYI INSPNPRNYYI INSPNPRNYYI INSPNPRNYYI INSPNPRNYYI INSPNPRNYYI INSPNPRNYYI INSPNPRNYYI INSPNPRSYYI INSPNPRSYYI INSKHPRSYYI INSKHPRSYYI INSKHPRSYYI INSKHPRSYYI INSKHPRSYYI INSKHPRSYYI INSKHPRSYYI INSKHPRSYYI INSKHPRSYYI INSKHPRSYYI INSKHPRSYYI INSKHPRSYYI INSCHPRSYYI	420 I RCTYR RCTYR RCTYR RCTHK RCTHK RCTHR RCTHR RCTHR RCTHR RCTHR RCTHR RCTHR RCSTE RCSSE RCSSE RCSSE RCSSE RCSSE RCSSE RCSSE RCSSE RCSSE RCSSE RCSSE RCSTA RCTHH RCTHH RCTHH RCTHH RCTHH RCTHH RCTHH RCTHH RCTHH RCTHH RCTHA RCTHA RCTAFA	174 174 173 161 161 161 163 163 165 165 165 165 165 165 165 165 165 165
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LOC_OS12g02450_WRKY64 HWRKY64 T_WRKY64 LOC_OS03g21710_WRKY79 H_WRKY79 T_WRKY79 LOC_OS05g49620_WRKY19 H_WRKY19 T_WRKY19 LOC_OS05g46020_WRKY07 T_WRKY07 LOC_OS01g51690_WRKY26 H_WRKY26 T_WRKY26 T_WRKY26 T_WRKY26 T_WRKY77 LOC_OS01g40260_WRKY77 LOC_OS01g40260_WRKY77 LOC_OS01g53260_WRKY70 H_WRKY70 LOC_OS01g53260_WRKY23 H_WRKY28 T_WRKY58 H_WRKY58 LOC_OS05g45230_WRKY58 LOC_OS05g45230_WRKY58 LOC_OS05g45230_WRKY58 LOC_OS05g45230_WRKY58 LOC_OS05g45230_WRKY58 LOC_OS05g45230_WRKY58 LOC_OS05g45230_WRKY58 LOC_OS05g45230_WRKY58 LOC_OS05g45230_WRKY58 LOC_OS05g45230_WRKY58 LOC_OS05g45230_WRKY58 H_WRKY28 T_WRKY28 T_WRKY28 T_WRKY26 LOC_OS09g25070_WRKY62 LOC_OS09g25070_WRKY62 LOC_OS09g25070_WRKY76	360		370 	380 380 380 380 387 387 387 387 387 387 387 387	3 VSLETPV. VSLETPV. VSLETPV. VSLETPV. VSLETPV. VSLETPV. VSLETPV. VSLETPV. VSLETPV. VSLETPV. VSLETPV. VSLETPV. VSLETPV. VSLETV. VSLETPV. VSLETV. VSLETV. VSLETPV. VSLET	90 PHYDGHQWI PHYDGHQWI PHYDGHQWI TLEDGHVWI TLEDGHVWI TLEDGHVWI SLDDGLSWI SLDDGLSWI SLDDGYKWI ILDDGYKWI ILDDGYKWI ILDDGYKWI VLDDGYRWI ILDGYRWI IN IN IN IN IN IN IN IN IN I	400 RKYGQKHIN RKYGQKHIN RKYGQKHIN RKYGQKDIG RKYGQKDIG RKYGQKDIG RKYGQKDIG RKYGQKDIG RKYGKSVH RKYGKSVH RKYGKSVH RKYGKSVH RKYGKSVH RKYGKSVH RKYGKSVH RKYGKSVH RKYGKSVH RKYGKSVH RKYGQKAVH RKYGQKAVH RKYGQKAVH RKYGQKAVH RKYGQKAVH RKYGQKAVH RKYGQKAVH RKYGQKAVH RKYGQKVTH RKYGQKYH RKYGQKYH RKYGQKYH RKYGQKYH RKYGQKYH RKYGQKYH RKYGQKYH RKYGQKYH RKYGQKYH RKYGQKYH RKYGQKYH RKYGQKYH RKYGQKYH RKYGQKYH RY RY RY RY RY RY RY RY RY RY	410 INSKHPRSYYI INSKHPRSYYI INSKHPRSYYI INSKHPRSYYI INSPYPRSYYI INSPYPRSYYI INSPYPRSYYI IGAKYPRAYFI IGAKYPRAYFI IGAKYPRAYFI INSPNPRNYYI INSPNPRNYYI INSPNPRNYYI INSPNPRNYYI INSPNPRNYYI INSPNPRNYYI INSPNPRNYYI INSPNPRNYYI INSPNPRNYYI INSPNPRNYYI INSPNPRNYYI INSPNPRNYYI INSPNPRSYYI INSKHPRSYYI INSKHPRSYYI INSKHPRSYYI INSKHPRSYYI INSCHPRSY INSCHPRSY	420 RCTYR RCTYR RCTYR RCTHK RCTHK RCTHK RCTHR RCTHR RCTHR RCTHR RCTHR RCTHR RCTHR RCSTE RCSSE RCSSE RCSSE RCSSE RCSSE RCSSE RCSSE RCSSE RCSSE RCSSE RCSSE RCSFA RCTHH RCTHH RCTHH RCTHH RCTHH RCTHH RCTHH RCTHH RCTHH RCTHH RCTHH RCTHA RCTHA RCTA	174 174 173 161 161 134 147 163 163 165 165 165 165 165 165 165 165 165 165

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LOC_Os12g02450_WRKY64	QEEKCKATKTVQQRED-	LHHANS	YNGDHP	VMYTVVY	GQHTCCKGP	AASADDHVVVEA	231
HWRKY64	QEEKCKATKTVQQRED-	LHHANS	YNGDHP	IMYTVVY	GQHTCCKGP	AALADDHVVVEA	231
T_WRKY64	QEEKCKATKTVQQRED-	LQHANS	YNGDHP	VMYTVVY	GQHTCCKGP	VASADDHVVVEA	230
LOC_Os03g21710_WRKY79	LDQGCGARRQTQRCEAI	DPSNYDIT	YYGEHTCRDP:	STIIPTAIA	NAAGAASDGPNNN	IISFATGGVVVANS	231
H_WRKY79	LDQGCGARRQTQRCEAI	PSNYDIT	YYGEHTCRDP:	STIIPTAIA	AAGAASDGPNNN	IISFATGGVVVANS	231
T_WRKY79	LDQGCGARRQTQRCEAI	PSNYDIT	YYGEHTCRDP:	STIIPTAIA	NAAGAASDGPNHN	IISFATGGVVVANS	231
LOC_Os05g49620_WRKY19	HTQGCNATKQVQRADGI	PLLFDVV	YLGDHTCG	-QAAVAAAQ	SAPPEHAGQ	EQQRQSSLLAAG	196
H WRKY19	HTQGCNATKQVQRADGI	PLLFDVV	YLGDHTCG	-QAAVAAAA	SAPPEHAGQ	EQQRQSSLLAAC	209
T WRKY19	HTQGCNATKQVQRADGI	PLLFDVV	YLGDHTCG	-QAAVTAAA	SAPPEHAGQ	EQQRQSSLLAAC	209
LOC 0s05g46020 WRKY07	GCNVKKRVERDKDI	PSYVVTT	YEGTHNHVSP:	STVYYASOD	ASG	RFFVAGTOPPGSLN	221
T WRKY07	GCNVKKRVERDKDI	PSYVVTT	YEGTHNHVSP:	STVYYASOD	ASG	RFFVAGTOPPGSLN	221
H WRKY07	GCNVKKRVERDKDI	PSYVVTT	YEGTHNHVSP:	STVYYASOD	ASG	RFFVAGTOPPGSLN	217
LOC Os01g51690 WRKY26	GCNVKKRVERDKNI	PRYVVTM	YEGIHNHVCP	GTVYYAAOD	ASG	RFFVAGISHP-DLN	245
H WRKY26		FV	YELVEREGCE				197
T WRKY26	GCNVKKRVERDKNI	PRYVVTT	YEGTHNHVCP	GTVYYAAOD	ASG	REFVAGISHP-DLN	234
H WEKY77	GCRVKKRVERABDI	ABEVVTT	VDGVHN-PAP	HT.BPOL	PPPG	GYSTAGAPAVVAPE	220
T WBKY77		ABEWW	VDGVHNHPAP	LHLR-POL	PPPC	CYSTACAPAWAPE	221
LOC 0c01c40260 WBKY77			VDCVUNUPA P	ULL P-POLI	·· · · · · · · · · · · · · · · · · · ·	CVCTACADAMA	221
LOC 0s05g39720 WBKX70	CCPUPKHUEPASM		VECKUNUDUP	ABCSAAAA		CMMPTTAOPSSVI.C	197
H MPKY70			VECKUNUDUD		VPAMPPPOACNA	CMMPHHADESTIC	107
m_WRK170			TEGRENEDVE		VRATEFEQASIA	CMMTETIAgessing	107
1_WKK170		DECTIVITY	TEGRENEDVE		TRATEFEQASIA	IGMMLTTAQF551LQ	254
LOC_0801953280_WRK125		TSIVVII	TEGVENEPCE	KIMEALTPII		TOLIZOL	204
H_WRK123		TSIVVII	TEGVHNHPCE	KLMEALTPII		TOLICE COL	254
T_WRK123	TCNVKKQVQRLAKI	TSIVVII	TEGVHNHPCE	KLMEALTPII	.ĸÇ	ÌTŐF.T2ŐF	100
T_WRK158	SDDE-LLESI	JVDNTQTA	TENLREIPLG	RVYITG		,	101
H_WRKY58	SDDELLLFSI	JVDNTQTA	TENLREIPLG	RVYITG			. 181
LOC_OS05g45230_WRKY58	SDDELLLFSI	OVDNTQTA	TENLRFIPLG	RVYITG			181
LOC_OS06g44010_WRKY28	PACPVKKKVQRSADI	ONTVLVAT	YEGEHNHAQP	P		HHDAGSK	319
H_WRKY28							262
T_WRKY28	PACPVKKKVQRSADI	ONTVLVAT	YEGEHNHAQP	P		HHDAGSK	319
T_WRKY62	PSCPVKKKLQRCAEI	RSMLVAT	YEGEHNHALS	TQTTEFVAS	CTTSQHAGGSSS	SPLPCSISINSSGR	243
H_WRKY62	PSCPVKKKLQRCAEI	RSMLVAT	YEGEHNHALS	TQTTEFVAS	CTTSQHAGGSSS	SPLPCSISINSSGP	120
LOC_Os09g25070_WRKY62	PSCPVKKKLQRCAEI	RSMLVAT	YEGEHNHALS	TQTTEFVAS	CTTSQHAGGSSS	SPLPCSISINSSGF	240
LOC_Os09g25060_WRKY76	PSCPVKKKVQRSAEI	SSLLVAT	YEGEHNHPHP:	SPRAGELPA-	AAGGAG	GSLPCSISINSSGF	255
H_WRKY76							· 85
T_WRKY76	PSCPVKKKVQRSAEI	SSLLVAT	YEGEHNHPHP:	SPRAGELPA-	AVGGAG	GSLPCSISINSSGF	224
	500	510	520	530	540	550 5€	0
LOC_Os12g02450_WRKY64	SQISTDSHCQSPGSSSS	SELQA			AAHAGDS	SQCSNISVTCSSSV	273
HWRKY64	SQISTDSHCQSPGSSSS	SELQA			AAHAGDS	SQCSNISVTCSSSV	273
T WRKY64	SQISTDSHCQSPGSSSS	SELQA			AAHAGDS	SQCSNISVTCSSSV	272
LOC Os03g21710 WRKY79	SRLAREGTTATTTSAA	rQLSSSW <mark>G</mark>	TSGGGGGGDD	VFSSSGERFI	QWDELAAAVGHV	SSVGVTSSTVGSAF	301
H WRKY79	SRLAREGTTATTTSAA	rg l sssw <mark>g</mark>	TSGGGGGGDD	VFSSSGERFI	IQWDELAAAVGHV	SSVGVTSSTVGSAF	301
T WRKY79	SRLAREGTTATTTSAA	IQLSSSWG	TSGGGGGGDD	VFSSSGERFI	QWDELAAAVGHV	SSVGVTSSTVGSAF	301
LOC Os05q49620 WRKY19	TEGIHOOVVAEPMAAP	LFTS			TAAGGVE	DGYFSFISPANSDC	238
H WRKY19	TEGIHOOVVAEPMAAPI	LFTS			TAAGGVE	DGYFSFISPANSDC	251
T WRKY19	TEGIHOOVVAEPMAAP	LFTS			TAAGGVE	DGYFSFISPANSDC	251
LOC 0s05g46020 WRKY07	~~						221
T WRKY07							221
H WRKY07							217
LOC 0s01g51690 WRKY26							245
H WRKY26							197
T WRKY26							. 22/
H WEKY77	CRICIPEAPUTAT.PPC				T.T.T.P.		234
	CRICIPEADUTAT PRO	mame					240
1_mAN1//	CRICIERARY INDERG	IMAMC					240
LOC_0501940200_WKK1//	GENERALVIALING	DDmm					- 240 1 500
LOC_0S05G39/20_WRKY/0	GGGGVLPAGGIGASYGG	MPTT			TQPANGG	GEAALSGREDDDAT	529
n wKKI/U	GGGGATAGGIGASIG	MPTT			TQPANGG	GE AALSGREDDDAT	: 529

GGGGVLPAGGYGASYGGAPTT-----TQPANGGGFAALSGRFDDDAT 529

----- 254

----- 254

------ 180 ------ 181

----- 262

TAAAAKHSQHQPPPSAAAAVV-----RQQQEQAAAAGPSTEVAARKN 361

TITLDLTNQAGSGSIASCGVE------AAAVSGELVT--VLSPELRRH 283

TITLDLTNQAGSGSIASCGVE-----AAAVSGELVT--VLSPELRRH 160

-----PPPPDLKEVCREVASPEFRTA 112

TITLDLTKNGGAVQVVEAAHP-----PPPPDLKEVCREVASPEFRTA 266

LOC_Os01g53260_WRKY23 ----- 254

LOC_Os09g25070_WRKY62 TITLDLTNQAGSGSIASCGVE------AAAVSGELVT--VLSPELRRH 280 LOC_Os09g25060_WRKY76 TITLDLTKNGGAVQVVEAAHP------PPPPDLKEVCREVASPEFRTA 297

T_WRKY70

H WRKY23

T_WRKY23 T_WRKY58

H_WRKY58

H_WRKY28 T_WRKY28

T WRKY62

H WRKY62

H_WRKY76 T_WRKY76

		570	58	0	590	600	610	
		· · I · · ·	• • • • • • •					
LOC_Os12g02450_WRKY64	VVEDCN	CLLDMLP	AADELTI	DVLLFI	MTAYAP	LDLDINWE	EMDTNALWA	321
HWRKY64	VVEDCN	CLLDMLP	AADELTI	DVLLFI	MTAYAP	LDLDINWE	EMDTNALWV	321
T_WRKY64	VVEDCN	LLDMLP	AADELTI	DVLLFI	MTAYAP	LDLDINW	EMDTNSLWA	320
LOC_Os03g21710_WRKY79	AAENDGO	INGDTAA	GGGGDGG	GAGSFI	PSSPSAGSI	LGFVVGPLGSI	EDVDDFFPFDP	356
H_WRKY79	AAENDGO	INGDTAA	GGGGDGG	GAGSF	PSSPSAGSI	LGFVVGPLGSI	EDVDDFFPFDP	356
T_WRKY79	AAENDGO	NGDTAA	GGGGDGG	GAGSFI	PSSPSAGSI	LGFVVGPLGSI	EDVDDFFPFDP	356
LOC_Os05g49620_WRKY19	QFSSDFS	AGSVGV	DMDHEAF	REDLF:	SST	LEFF(2SEIQNL	277
H_WRKY19	QFSSDFS	AGSVGV	DMDHEAF	REDLE:	SST	LEFF(QSEIQNL	290
T_WRKY19	QFSSDFS	AGSVGV	DMDHEAF	REDLE:	SST	LEFF(QSEIQNL	290
LOC_Os05g46020_WRKY07								221
T_WRKY07								221
H_WRKY07								217
LOC_Os01g51690_WRKY26								245
H WRKY26								197
T_WRKY26								234
H WEKY77								245
T WRKY77								246
LOC Os01g40260 WRKY77								246
LOC Os05g39720 WRKY70	GASYSYI	sogooo	PNDAVYY	ASRAK	DEPRDDGI	MSFFEQPLLF-		572
H WRKY70	GASYSYI	sogooo	PNDAVYY	ASRAK	DEPRDDGI	MSFFEQPLLF-		572
T WRKY70	GASYSYI	soooo	PNDAVYY	ASRAK	DEPRDDGI	MSFFEQPLLF-		572
LOC Os01g53260 WRKY23								254
H WRKY23								254
T WRKY23								254
T WRKY58								180
H WRKY58								181
LOC 0s05g45230 WRKY58								181
LOC Os06g44010 WRKY28	LAEOMAA	TLTRDP	GFKAALV	TALSG	RILELSPT	K N		396
H WRKY28								262
T WRKY28	LAEOMAA	TLTRDP	GFKAALV	TALSG	RILELSPT	K N		396
T WRKY62	LVEEVV	VLKNDA	EFVEAVI	'NAVAAI	RVVDQIPHI	IPVHL		321
H WRKY62	LVEEVVO	VLKNDA	EFVEAVI	NAVAA	RVVDOIPHI	IPVHL		198
LOC Os09g25070 WRKY62	LVEEVVO	VLKNDA	EFVEAVI	NAVAA	RVVDQIPHI	IPVHL		318
LOC 0s09q25060 WRKY76	LVEOMAS	ALTSDP	KFTGALA	AAILO	LPEF			327
H WRKY76	LVEOMAS	ALTSDP	KFTGALA	AAILO	LPEF			142
T WRKY76	LVEOMAS	ALTSDP	KFTGALA	AAILO	LPEF			296
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Fig. S3: Structural variations at amino acid level in the three genotypes.

	10	20	30	40	50	60	70
LOC 0s01051690 pW26		. ATCAATATACT	. 			 Сатсттсаааа	• 1772 67
H289702 pW26							1
T3056296 pW26	TTATA-AAAACAT	AACCCAACGAG	АСААТАААТТ	TAAAAACTAAZ	AGTTTTAA	-AATTTCTGAG	GA 64
LOC Os01g53260 pW23	CTTCATACTGAATAT	AAAAATCACGA	TTAATTTAAT	GTAGAGACCAG	ATTAATTTCT	ACTTTTTCCCT	TT 70
H1961965 pW23	CTTCATACTGAATAT	AAAAATCACGA	TTAATTTAAT	GTAGAGACCAG	ATTAATTTCT	ACTTTTTCCGT	TT 70
T3027906 pw23	CTTCATACTGAATAT	AAAAATCACGA	TTAATTTAAT	GTAGAGACAAG	ATTAATTTCT	ACTTTTTCCGT	TT 70
LOC Os06g44010 pW28							1
H1976995_pW28		AAAAT	GATTTTGAAC	ATGTAAGTTCI	GTTCATTAGT	GCTAAACTGGT	CC 49
T3063501_pW28		AAAT	GATTTTGAAC	ATGTAAGTTCT	IGTT <mark>CATTAGT</mark>	G <mark>CTAAACT</mark> GGT	CC 48
LOC_0s05g46020_pW07			TAACI	TTCCTGTCAA1	AGGTTTGATT	AGACTCGGGCA	AA 39
H2000561_pW07			TAACI	TTCCTGTCAA1	AGGTTTGATT	AGACTCGGGCA	AA 39
T3066720_pW07			TAACI	TTCCTGTCAA1	AGGTTTGATT	AGGCTCGGGCA	AA 39
H2023318_pW64							1
T3095730_pW64							1
LOC_Os12g02450_pW64			A A	ATTAGTGGTCT7	AAACTGAACC	GCGTAAAAAGC	TC 36
LOC_0s01g40260_pW77				CTATO	TCATTAAAAT	AGTTATAAAAG	AA 28
т3097007_рW77				CTATO	TCATTAAAAT	AGTTATAAAAG	AA 28
H1950043_pW77				TATO	TCATTAAAAT	AGTTATAAAAG	AA 27
LOC_0s09g25070_pW62		AAC	ACATAGCACO	ACACTCATATA	ATCCGCAAATT	CCTC-TAAAAG	GC 46
H1972014_pW62p		AAC	ACATAGCACO	ACACTCATATA	ATCCGCAAATT	CCTC-TAAAAG	GC 46
T3091546_pW62		AAC	ACATAGCACO	ACACTCATATA	ATCCGCAAATT	CCTC-TAAAAG	GC 46
LOC_Os05g39720_pW70			TACAACTGTC	ACTGACATACA	AGTCCGAGC	AGACACCTG	AA 40
H334389_pW70			TACAACTGTC	ACTGACATACA	AGTCCGAGC	AGACACCTG	AA 40
T3094952_pW70			TACAACTGTC	CACTGACATACA	AGTCCGAGC	AGACACCTG	AA 40
LOC_0805g45230_pw58		GAAA	CGGTCCCGAG	GCAGTCCTGCG	FTCGCCGTTGC	GCATCACCG	AG 40
H1850565_pw58p		GAAA	CGGTCCCGAG	GCAGTCCTGCC	Freeceerree	GCATCACCG	AG 40
T30/5919_pw58		GAAA	CGGTCCCGAG		STEGEEGTTGE	GCATCACCG	AG 40
LOC_0803g21/10_pw/9			Terererer			TCGTTGATA	TA 41
H1952278_pW79			-TCTCTCTCTG1			TCGTTGATA	TA 41
130/00/2_pw/9			-TCTCTCTG1	TCTGGTACTTTT	ATTAATCACCC	TCGTTGATA	TA 41
H2014700 pw19			CAA	TCAGGCTGGCF	AGAAAGAACA	CTGTGCCA	AC 33
T3058779 pW19					ACAACCTTA		<u>መመ</u> 33
LOC 0s09g25060 pW76					ͲͲͲϾͲͲͲϷϫϫ	AGTTTCACTCA	TC 41
T3076120 pW76						AGTTTCACTCA	TC 20
H1974322 pW76p			GTCTTAG		TTTCTTTAAA	AGTTTCACTCA	TC 41
The second se							

	80	90 100	110	120	130 14	0
		• • • • • • • • • • • •	• • • • • • • • • •	•••		105
pw26	ACAAAAATATGGAAT-TTT	CAAAAAAGAAAGGTT	CATCTAAAATATA	T-CGATGATA	ATGACAATTAAG	135
						1 2 0
	CAATGAATAAAAGCG-GTG	ACAAAATGATAGATC	GAACAAATAAATA	A-AGAAGGGG	АТААСАААААААА	132
pw23	CAGGTTATAAGACTT-TCT	AACAAATTGTATCTA	JATTCATTAATAA	TTATATAAAT	ATGGATAATGTTA	139
	CAGGTTATAAGACTT-TCT	AACAAATTGTATCTA	JATTCATTAATAA	TTATATAAAT	ATGGATAATGTTA	139
	CAAGTTATAAGACTT-TCT	AACAAATTATATCTA	SATTCATTAACAA	TTATATAAAT	ATGAATAATGTTA	139
pw28				ACATTTCTAT	AAAAAAAAAGA	110
	TAGAATACAGTGTTT-TCT	TAATATAAAAAACTTA		ACATTTCTAT	AAAAAAAAAGA	110
	TAGAATACAGTGTTT-TCT	TAATATAAAAACTTA	PTACACTGTACTA	ACATTTCTAT	AAAAAAAAAAA - GA	100
pw07	GCAGGAACACACCTGATCC	AAGACCCGATACCTC	PTGGACAATCGGA	GCACGATAGTA		109
	GCAGGAACACACCTGATCC	AAGACCCGATACCTC:	PTGGACAATCGGA	GCACGATAGT		109
	GCAGGAACACACCTGATCC	AAGACCCGATACCTC	FTGGACAATCGGA	GCACGATAGT	ATTAGCAGGCAAA	109
						1
						106
pw64	AGGTGATTAATTAGAACTT	GGTGTTGAACGTACT	ACCTGATGATCTA	TCAAGCTAGC		0.4
pw//	CTGAAAAAATTGAAAGAT	GAATTAATATGTG	ATATATCATTCCA		ACTTAAATTCA	94
	CTGAAAAAATTGAAAGAT					02
-1460		GAATTAATATGTG				93
pwez	TAAAACACACACTAGAAAGGA	CGAAACCAACGACACA			ATGAAAGCCCCCCT	116
	TAAAACACACACTAGAAAGGA	CGAAACCAACGACACA			ATGAAAGCCCCCCT	110
-1770						105
pw/0	ATGCAAATTTCAACAGT	AGAATCAGTCAGCTG	ATTTAA-ATATAA		SAATTTAAGCA	105
	ATGCAAATTTCAACAGT					105
-TVE 9	ATGCAAATTTCAACAGT		CTTTAA-ATATAA		GAATTTAAGCA	110
pwso	GCGGCCCGACGTCACCGTT	CCACGCCATTGACGC	GTTCCT-GTGTAG		CACCGACACT	110
	GCGGCCCGACGTCACCGTT	CCACGCCATTGACGC	STTCCT-GTGTAG		CACCGACACT	110
	GUGGUUUGAUGTUAUUGTT		STTCCT-GTGTAG		CACCGACACT	100
pw/s	CTTGTTCTTATATCGATTC	TAATATTTCTGTCCT	ACGTGGAGGAAAG	AGACACCTO	TGTGACACGTCG	109
	CTTGTTCTTATATCGATTC		ACGTGGAGGAAAG	AGACACCT(STGTGACACGTCG	109
	CTTGTTCTTATATCGATTC				A A A A MA A MAMM	109
DWIA	CTARTTCAC-TGTCCAAGC	TGATAATACTTATCA		ACAGTCTTTA	AAAAATAATTTTG	103
	CTAATTCAC-TGTCCAAGC		TTTTGAAAAAAAC			102
-1176		GAAGATTAAGTGTGC			CATATGATTAAT	111
pw/o	TTCCTTTATCGATCTAAAC	AAGAACATGCTTTTT.	TTTTTTTACTTTG	GTAAGTATTT(STGATAATCATGG	111
	TTCCTTTATCGATCTAAAC	AAGAACATGCTTTTT	TTTTTACTTTG	GTAAGTATTT(JTGATAATCATGG	88
	TTCCTTTATCGATCTAAAC	AAGAACATGCTTTTT	TTTTTTTTACTTTG	GTAAGTATTT(TGATAATCATGG	111

LOC_Os01g51690_ H289702_pW26 T3056296 pW26 LOC_Os01g53260 H1961965_pW23 T3027906_pW23 LOC_Os06g44010_ H1976995_pW28 T3063501_pW28 LOC_0s05g46020 H2000561_pW07 T3066720_pW07 H2023318_pW64 T3095730_pW64 LOC_0s12g02450_ LOC_Os01g40260 T3097007_pW77 H1950043_pW77 LOC_Os09g25070_ H1972014_pW62p T3091546_pW62 LOC_0s05g39720_ H334389 pW70 T3094952_pW70 LOC_0s05g45230 H1850565_pW58p T3075919_pW58 LOC_0s03g21710_ H1952278_pW79 T3070072_pW79 LOC_0s05g49620_ H2014700_pW19 T3058779_pW19 LOC_Os09g25060_ T3076120 pW76

H1974322_pW76p

	150 1	60 170	180	190 200	210
LOC 0s01g51690 pW26	AGGGGAGAAGCAACATGCT	· · · · · · · · · · · · TATAATGGAGTAAGCG	TAGGCCTATAAAC	CCCAATGATAATC	 ATATTTGA- 204
H289702 pW26					1
T3056296_pW26	TAAGGGTTAGCAACTGGTG	CGACTTTTAAAAACTA	TAAAATTAGAAAT	ATGTGGATGATAA	GGTTTGGT- 201
LOC_Os01g53260_pW23	AAAAGTCTTATAACCTGAA	ACAGAGGTAATAGTAA	ATATCGACGATGC	ACGTATAATCTCT	AGCTCGTA- 208
H1961965_pW23	AAAAGTCTTATAACCTGAA	ACAGAGGTAATAGTAA	ATATCGACGATGC	ACGTATAATCTCT	AGCTCGTA- 208
$1302/906_pw23$	CAAGAATCTTATAACCTGAA	ACGGAGGTAGTAGTAA ACAGCATCAATAAGAC	ATATCGACGATGC	ACGTATAATCTCT	AGCTCGTA- 208 AAAACACA- 92
H1976995 pW28	GAAGAACTTTTTCTCAGAG	ACAGCATCAATAAGAC	AAAAAAAAGTTAC	ATGGGAAAAAGAG	AAAACACA- 185
T3063501_pW28	GAAGAACTTTTTCTCAGAG	ACAGCATCAATAAGAC	AAAAAAAAGTTAC	ATGGGAAAAAGAG	AAAACACA - 185
LOC_Os05g46020_pW07	AATCAACGCCCACGTCGGT	G <mark>TC</mark> GGGTG <mark>C</mark> GTATTTA	AAAACATCGATA-	ATATATGCAT G	GCTAGATA- 175
H2000561_pW07	AATCAACGCCCACGTCGGT	GTCGGGTGCGTATTTA	AAAACATCGATA-	ATATATGCATG	GCTAGATA- 175
T3066720_pW07	AATCAACGCCCACGTCGGT	GTCGGGTGCGTATTTA			GCTAGATA- 1/5
T3095730 pW64					1
LOC Os12g02450 pW64	GGCCCTGTTTAGATGGGAC	TAAAACTTTTAAGTCC	CTATCACATCGGA	TGTTTGAAAATTA	
LOC_Os01g40260_pW77	-ACTTAAAATTTGTTTTTT	CCTGTGACATATAGAA	GTTGAATTTTCAG	ТТ <mark>ССАТААТ</mark> ТАТС	CAGTGATAT 163
T3097007_pW77	-ACTTAAAATTTGTTTTTT	CCTGTGACATATAGAA	GTTGAATTTTCAG	TTGCATAATTATG	CAGTGATAT 163
H1950043_pW77		CCTGTGACATATAGAA	GTTGAATTTTCAG	TTGCATAATTATG	CAGTGATAT 162
H1972014 pW62p	TGCTTGTGACCAATATTCA	GGTACAGAATCAATGA GGTACAGAATCAATGA	TGTACATCCACA-	TCACCTTAACCTT	CTTAGATTT 185 CTTAGATTT 185
T3091546 pW62	TGCTTGTGACCAATATTCA	GGTACAGAATCAATGA	TGTACATCCACA-	TCACCTTAACCTT	CTTAGATTT 185
LOC_Os05g39720_pW70	-GCTAAAAAGCGATACAAA	CCCTAATTAACTATAC	TCTACTAATTAAG	CTACCCAACCAT-	CTGACATGG 173
H334389_pW70	-GCTAAAAAGCGATACAAA	CCCTAATTAACTATAC	TCTACTAATTAAG	CTACCCAACCAT-	CTGACATGG 173
T3094952_pW70	-GCTAAAAAGCGATACAAA	CCTTAATTAACTATAC	TCTACTAATTAAG	CTACCCAACCAT-	CTGACATGG 173
LOC_0S05g45230_pW58	-GCCCCAC-GTGTTCCTGC	CCTCCATCA-CGTTGC		TCATGGCGCCGCA	CTTCCATGC 1/9
T3075919 pW58	-GCCCCAC-GTGTTCCTGC	CCTCCATCA-CGTIGC	CGCAC-ACCCGGG	TCATGGCGCCGCA	CTTCCACGC 179
LOC Os03g21710 pW79	TCCCGTGTAGCCAAAAC	CACTGGCCGTTCGGTC	TCGGTGTTTCCAG	TTTCCATCAACCG	TAAGCGTGT 177
H1952278_pW79	TCCCGTGTAGCCAAAAC	CACTGGCCGTTCGGTC	TCGGTGTTTCCAG	TTTCCATCAACCG	TAAGCGTGT 177
T3070072_pW79	TCCCGTGTAGCCAAAAC	CACTGGCCGTTCGGTC	TCGGTGTTTCCAG	TTTCCATCAACCG	TAAGCGTGT 177
LOC_0s05g49620_pW19	ACCATTTTT-TTATTATAA	TAT-AAAAATATCAAT	AAATATCCTATTC	CAGTGAAGCATTT	TTAACACTT 171
T3058779 pW19	TAAATTTTTTTTTTTATTATAAA	TAT-AMMININININININ TCTTAAAAATGGATTT	ͷͷͷͷͷͷͷͷͷͷͷ	TAGTAACTTTT	ATAGAAAGT 173
LOC Os09g25060 pW76	CGATGATGTGAACACGCGT	GCCGAACGTAAAACTA	TCATTTTTTTAC	TTAGTAAAGACAA	CAAAACCAT 181
T3076120_pW76	CGATGATGTGAACACGCGT	GCCGAACGTAAAACTA	TCATTTTTTTAC	TTAGTAAAGACAA	CAAAACCAT 158
H1974322_pW76p	CGATGATGTGAACACGCGT	GCCGAACGTAAAACTA	TCATTTTTTTTAC	TTAGTAAAGACAA	CAAAACCAT 181
			250		
	220 2 	30 240 	250	260 270 • • • • • • • • • •	280 • • • • • • • •
LOC_Os01g51690_pW26	220 2 TTTTAAAA-TCTTAAGGA-	30 240 • • • • • • • • • • • • ATTCAAGCAATTTA	250 AAATTCGAATTTC	260 270 • • • • • • • • GACCGCTGAAATG	280 GTG-AGAAT 269
LOC_Os01g51690_pW26 H289702_pW26	220 2 	30 240 	250 AAATTCGAATTTC	260 270 . . GACCGCTGAAATG	280 GTG-AGAAT 269 1
LOC_Os01g51690_pW26 H289702_pW26 T3056296_pW26	220 2 TTTTAAAA-TCTTAAGGA - TTTTCAAA-GTATTAAGA - TTTTCAAA-GTATTAAGA -	30 240 	250 AAATTCGAATTTC 	260 270 . . GACCGCTGAAATG 	280
LOC_Os01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_Os01g53260_pW23 H1961965_pW23	220 2 TTTTAAAA-TCTTAAGA- TTTTCAAA-GTATTAAGA- TTTTCAAA-GTATTAAGA- AATAAATTTGCAATGAACA- AATAAATTTGCCATGAACA-	30 240 	250 	260 270 	280
LOC_Os01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_Os01g53260_pW23 H1961965_pW23 T3027906_pW23	220 2 TTTTAAAA TCTTAAGAA TTTTCAAA GTATTAAGA AATAAATTTGCATGAACA AATAAATTTGCATGAACA AATAAATTTGCATGAACA	30 240 	250 AAATTCGAATTTC TTTAACAAATTTT TTAACCTGCTGCT TTAACCTGCTGCT	260 270 	280
LOC_Os01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_Os01g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_Os06g44010_pW28	220 2 TTTTAAAA-TCTTAAGA- TTTTCAAA-GTATTAAGA- TTTTCAAA-GTATTAAGA- AATAAATTTGCATGAACA- AATAAATTTGCATGAACA- AATAAATTTGCATGAACA- ACTAAAAAGAGAAAAAACAC	30 240 	250 AAATTCGAATTTC TTTAACAAATTTT TTAACCTGCTGCT TTAACCTGCTGCT TTAACCTGCTGCT CTATTCTCTCTGT	260 270 	280
LOC_Os01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_Os01g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_Os06g44010_pW28 H1976995_pW28	220 2 TTTTAAAA-TCTTAAGA- TTTTCAAA-GTATTAAGA- AATAAATTTGCATGAACA- AATAAATTTGCATGAACA- AATAAATTTGCATGAACA- ACTAAAAAGAGAAAAACAC	30 240 	250 AAATTCGAATTTC TTTAACAAATTTT TTAACCTGCTGCT TTAACCTGCTGCT CTATCTCTCTCTGT CTATTCTCTCTCTGT	260 270 	280
LOC_Os01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_Os01g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_Os06g44010_pW28 H1976995_pW28 T3063501_pW28 LOC_Os05c46020_pW07	220 2 TTTTAAAA TCTTAAGA ATTAAATTTCCATGAACA AATAAATTTGCATGAACA AATAAATTTGCATGAACA AATAAATTTGCATGAACA ACTAAAAAGAGAAAAACAC ACTAAAAAGAGAAAAACAC ACTAAAAAGAGAAAAACAC	30 240 	250 AAATTCGAATTTC TTTAACAAATTTT TTAACCTGCTGCT TTAACCTGCTGCT CTATTCTCTCTGT CTATTCTCTCTGT CTATTCTCTCTGT CTATTCTCTCTGT	260 270 	280
LOC_OS01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OS01g53260_pW23 H1961965_pW23 LOC_OS06g44010_pW28 H1976995_pW28 T3063501_pW28 LOC_OS05g46020_pW07 H2000561_pW07	220 2 TTTTAAAA TCTTAAGA ATTAAATTTCCATGAACA AATAAATTTCCATGAACA AATAAATTTGCATGAACA AATAAATTGCATGAACA ACTAAAAAGAGAAAAACAC ACTAAAAAGAGAAAAACAC ACTAAAAAGAGAAAAACAC ACTAAAAAGAGAATATGA ACTAAACAGAGATTATGA	30 240 	250 AAATTCGAATTTC TTTAACAAATTTT TTAACCTGCTGCT TTAACCTGCTGCT CTATTCTCTCTGT CTATTCTCTCTGT CTATTCTCTCTGT TTTGGGAGCATCA TTTGGGAGCATCA	260 270 	280
LOC_OS01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OS01g53260_pW23 H1961965_pW23 LOC_OS06g44010_pW28 H1976995_pW28 T3063501_pW28 LOC_OS05g46020_pW07 T3066720_pW07	220 2 TTTTAAAA TCTTAAGA ATTAAAA TCTTAAGA AATAAATTTGCATGAACA AATAAATTTGCATGAACA AATAAATTGCATGAACA ACTAAAAGAGAAAAACAC ACTAAAAGAGAAAAACAC ACTAAAAGAGAATAACAC ACTAAACAGAGATTATGA ACTAAACAGAGATTATGA ACTAAACAGAGATTATGA	30 240 	250 AAATTCGAATTTC TTTAACAAATTTT TTAACCTGCTGCT TTAACCTGCTGCT CTATTCTCTCTGT CTATTCTCTCTGT CTATTCTCTCTGT TTTGGGAGCATCA TTTGGGAGCATCA	260 270 	280
LOC_OS01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OS01g53260_pW23 H1961965_pW23 LOC_OS06g44010_pW28 H1976995_pW28 T3063501_pW28 LOC_OS05g46020_pW07 H2000561_pW07 T3066720_pW07 H2023318_pW64	220 2 TTTTAAAA TCTTAAGA ATTAAATTTGCATGAACA AATAAATTTGCATGAACA AATAAATTTGCATGAACA AATAAATTGCATGAACA AATAAATTGCATGAACA ACTAAAAGAGAAAAACAC ACTAAAAGAGAAAAACAC ACTAAACAGAGAATAATGA ACTAAACAGAGATTATGA ACTAAACAGAGATTATGA ACTAAACAGAGATTATGA ACTAAACAGAGATTATGA	30 240 	250 AAATTCGAATTTC TTTAACAAATTTT TTAACCTGCTGCT TTAACCTGCTGCT CTATTCTCTCTGT CTATTCTCTCTGT CTATTCTCTCTGT TTTGGGAGCATCA TTTGGGAGCATCA TTTGGGAGCATCA	260 270 	280
LOC_OS01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OS01g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_OS06g44010_pW28 H1976995_pW28 T3063501_pW28 LOC_OS05g46020_pW07 H2000561_pW07 T3066720_pW07 H2023318_pW64 T3095730_pW64	220 2 TTTTAAAA TCTTAAGA TTTTCAAA GTATTAAGA AATAAATTTGCATGAACA AATAAATTTGCATGAACA AATAAATTTGCATGAACA AATAAATTGCATGAACA ACTAAAAAGAGAAAAACAC ACTAAAAAGAGAAAAACAC ACTAAACAGAGAATTATGA ACTAAACAGAGATTATGA ACTAAACAGAGATTATGA	30 240 	250 AAATTCGAATTTC TTTAACAAATTTT TTAACCTGCTGCT TTAACCTGCTGCT CTATTCTCTCTGT CTATTCTCTCTGT CTATTCTCTCTGT TTTGGGAGCATCA TTTGGGAGCATCA TTGGGAGCATCA	260 270 	280
LOC_OS01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OS01g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_OS06g44010_pW28 H1976995_pW28 LOC_OS05g46020_pW07 H2000561_pW07 T3066720_pW07 H2023318_pW64 T3095730_pW64 LOC_OS12g02450_pW64 LOC_OS12g02450_pW64	220 2 TTTTAAAA TCTTAAGA TTTTAAAA TCTTAAGA AATAAATTGCATGAACA AATAAATTGCATGAACA AATAAATTGCATGAACA AATAAATTGCATGAACA ACTAAAAGAGAAAAACAC ACTAAAAGAGAAAAACAC ACTAAACAGAGAATTATGA ACTAAACAGAGAATTATGA ACTAAACAGAGAATTATGA ACTAAACAGAGAATTATGA ACTAAACAGAGAATTATGA ACTAAACAGAGAATTATGA	30 240 	250 AAATTCGAATTTC TTTAACAAATTTT TTAACCTGCTGCT TTAACCTGCTGCT CTATTCTCTCTGT CTATTCTCTCTGT CTATTCTCTCTGT TTTGGGAGCATCA TTTGGGAGCATCA TTGGGACCATCA TTGGGACCATCA TTTGGGACCATCA	260 270 	280
LOC_OS01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OS01g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_OS06g44010_pW28 H1976995_pW28 LOC_OS05g46020_pW07 H2000561_pW07 T3066720_pW07 H2023318_pW64 T3095730_pW64 LOC_OS12g02450_pW64 LOC_OS12g02450_pW64 LOC_OS01g40260_pW77 T3097007_pW77	220 2 TTTTAAAA TCTTAAGA TTTTCAAA TCTTAAGA AATAAATTTGCATGAACA AATAAATTTGCATGAACA AATAAATTTGCATGAACA AATAAATTGCATGAACA ACTAAAAGAGAAAAACAC ACTAAAAGAGAATAATGA ACTAAACAGAGATTATGA ACTAAACAGAGATTATGA ACTAAACAGAGATTATGA ACTAAACAGAGATTATGA AGTGGAGTTGAATAATACAA TTAAACGTAGACTATTAA ATCA-TAT ACTAT	30 240 	250 AAATTCGAATTTC TTTAACAAATTTT TTAACCTGCTGCT TTAACCTGCTGCT CTATTCTCTCTGT CTATTCTCTCTGT CTATTCTCTCTGT TTTGGGAGCATCA TTTGGGAGCATCA TTGGGACCATCA TTGGGACCATCA TTGGGACCATCA TTGGGACTAATT CTCTGGACTAATT	260 270 	280
LOC_OS01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OS01g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_OS06g44010_pW28 H1976995_pW28 T3063501_pW28 LOC_OS05g46020_pW07 H2000561_pW07 T3066720_pW07 H2023318_pW64 T3095730_pW64 LOC_OS12g02450_pW64 LOC_OS12g02450_pW64 LOC_OS01g40260_pW77 H1950043_pW77	220 2 TTTTAAAA TCTTAAGA TTTTAAAA TCTTAAGA AATAAATTGCATGAACA AATAAATTGCATGAACA AATAAATTGCATGAACA AATAAATTGCATGAACA AATAAAATGCATGAACA ACTAAAAGAGAAAAACAC ACTAAACAGAGATTATGA ACTAAACAGAGATTATGA ACTAAACAGAGATTATGA ACTAAACAGAGATTATGA ACTAAACAGAGATTATGA ACTAAACAGAGATTATGA AGTGGAGTTGAATATACAA TTAAACGTAGACTATTAA ATCA-TAT ACTAT	30 240 	250 III ARATTCGAATTTC TTTAACAAATTTT TTAACCTGCTGCT CTATCCTCGCTGCT CTATTCTCTCTGT CTATTCTCTCTGT TTTGGGAGCATCA TTTGGGAGCATCA TTGGGACCATCA TTGGGACCATCA TTGGGACCATCA TTGGGACCATCA TTGGGACCATCA CTCTCTTTTTT- CTCTCTCTTTTTT-	260 270 	280
LOC_OS01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OS01g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_OS06g44010_pW28 H1976995_pW28 LOC_OS05g46020_pW07 H2000561_pW07 T3066720_pW07 H2023318_pW64 T3095730_pW64 LOC_OS12g02450_pW64 LOC_OS12g02450_pW64 LOC_OS12g02450_pW77 H1950043_pW77 LOC_OS09g25070_pW62	220 2 TTTTAAAA TCTTAAGA TTTTCAAA TCTTAAGA AATAAATTTGCATGAACA AATAAATTTGCATGAACA AATAAATTGCATGAACA AATAAATTGCATGAACA ACTAAAAGAGAAAAACAC ACTAAAAGAGAAAAACAC ACTAAACAGAGAATAAGA ACTAAACAGAGATTATGA ACTAAACAGAGATTATGA ACTAAACAGAGATTATGA ACTAAACAGAGATTATGA ACTAAACAGAGATTATGA ACTAAACAGAGATTATGA ACTAAACAGAGATTATGA ACTAAACAGAGATTATGA ACTAAACAGAGATTATGA ACTAAACAGAGATTATGA ACTAAACAGAGATTATGA ACTAAACAGAGATTATGA ACTAAACAGAGATTATGA ACTAAACAGAGATTATGA ACTAAACAGAGATTATGA ACTAAACAGAGATTATGA ACTAAACAGAGATTATGA ACTAAACAGAGATTATGA ACTAAACAGAACATATCAA	30 240 	250 	260 270 	280
LOC_OS01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OS01g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_OS06g44010_pW28 H1976995_pW28 LOC_OS05g46020_pW07 H2000561_pW07 T3066720_pW07 H2002318_pW64 T3095730_pW64 LOC_OS12g02450_pW64 LOC_OS12g02450_pW64 LOC_OS12g02450_pW77 H1950043_pW77 LOC_OS09g25070_pW62 H1972014_pW62p	220 2 TTTTAAAA TCTTAAGA TTTTAAAA TCTTAAGA AATAAATTGCATGAACA AATAAATTGCATGAACA AATAAATTGCATGAACA AATAAATTGCATGAACA AATAAAATTGCATGAACA ACTAAAAGAGAAAAACAC ACTAAAAGAGAAAAACAC ACTAAACAGAGAATAAGA ACTAAACAGAGAATAAGA ACTAAACAGAGAATAAGA ACTAAACAGAGAATAAGA ACTAAACAGAGAATAAGA ACTAAACAGAGAATAAGA ACTAAACAGAGAATAAGA ACTAAACAGAGAATAAGA ACTAAACAGAGAATAAGA ACTAAACAGAGAATAAGA ACTAAACAGAGAATAAGA ACTAAACAGAGAATAAGA ACTAAACAGAGAATAAGA ACTAAACAGAGAATAAGA ACTAAACAGAGAATAAGA ACTAAACAGAGAATAAGA ACTAAACAGAGAATAAGA ACTAAACAGAGAATAAGA ACTAAACAGAGAATAAGA ACTAAACAGAAGAATAAGA ACTAAACAGAGAATAAGA ACTAAACAGAGAATAAGA ACTAAACAGAGAATAAGA ACTAAACAGAGAATAAGA ACTAAACAGAGAATAAGAA ACTAAACAGAGAATAAGA ACTAAACAGAGAATAAGA ACTAAACAGAGAATAAGA ACTAAACAGAGAATAAGAA ACTAAACAGAGAATAAGA ACTAAACAGAGAATAAGA ACTAAACAGAGAATAAGA ACTAAACAGAGAATAAGA ACTAAACAGAAAACACA ACTAAACAGAGAATAAGA ACTAAACAGAGAATAAGA ACTAAACAGAGAATAAGA ACTAAACAGAGAATAAGA ACTAAACAGAGAATAAGA ACTAAACAGAGAATAAGA ACTAAACAGAGAATAACACA ACTAAACAGAGAATAACACA ACTAAACAGAGAATAACACA ACTAAACAGAGAATAACACA ACTAAACAGAGAATAACACA ACTAAACAGAGAATAACACA ACTAAACAGAAGAAAAACACA ACTAAACAGAGAATAACACA ACTAAACAGAGAATAACACA ACTAAACAGAGAATAACACA ACTAAACAGAGAATAACACA ACTAAACAGAACACACAACACACAA ACTAAACAGAACACACACAACACAAACACAAACACAAACACAAAACACA	30 240 	250 AAATTCGAATTTC TTTAACAAAATTTT TTAACCTGCTGCT CTATCCTCCTGCT CTATTCTCTCTGT CTATTCTCTCTGT CTATTCTCTCTGT TTTGGGAGCATCA TTTGGGAGCATCA TTGGGACCATCA TTGGGACTAATT CTCTCTCTTTTTT- CTCTCTTTTTTT- AGTCATCATTT- AAGTCATCATTT-	260 270 	280
Loc_os01g51690_pW26 H289702_pW26 T3056296_pW26 Loc_os01g53260_pW23 H1961965_pW23 Loc_os06g44010_pW28 H1976995_pW28 Loc_os05g46020_pW07 H200561_pW07 T3066720_pW07 H2003561_pW07 T3095730_pW64 Loc_os12g02450_pW64 Loc_os12g02450_pW64 Loc_os01g40260_pW77 T3097007_pW77 H1950043_pW77 Loc_os09g25070_pW62 H1972014_pW62p T3091546_pW62 Loc_os05g39720_pW70	220 2 TTTTAAAA TCTTAAGA ATTAAAA TCTTAAGA AATAAATTTGCATGAACA AATAAATTTGCATGAACA AATAAATTTGCATGAACA AATAAATTGCATGAACA AATAAATTGCATGAACA ACTAAAAGAGAAAAACAC ACTAAAAGAGAAAAACAC ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAACAATAATAA ACCGCTCT ACCACTCT ACC	30 240 	250 	260 270 	280
Loc_os01g51690_pW26 H289702_pW26 T3056296_pW26 Loc_os01g53260_pW23 H1961965_pW23 T3027906_pW23 Loc_os06g44010_pW28 H1976995_pW28 Loc_os05g46020_pW07 H2000561_pW07 T3066720_pW07 H2002318_pW64 Loc_os12g02450_pW64 Loc_os12g02450_pW64 Loc_os01g40260_pW77 T3097007_pW77 H1950043_pW77 Loc_os09g25070_pW62 H1972014_pW62p T3091546_pW62 Loc_os05g39720_pW70	220 2 TTTTAAAA TCTTAAGA TTTTAAAA TCTTAAGA AATAAATTTGCATGAACA AATAAATTTGCATGAACA AATAAATTGCATGAACA AATAAATTGCATGAACA AATAAATTGCATGAACA ACTAAAAGAGAAAAACAC ACTAAAAGAGAAAAACAC ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAACACAAAACACAA ACTAAAACAGAAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAAGAATAATGA ACTAAACAGAAGAATAATGA ACTAAACAGAAGAATAATGA ACTAAACAGAAGAAAAACACAAAAACACAAAAAAAAAAA	30 240 	250 	260 270 	280
LoC_0s01g51690_pW26 H289702_pW26 T3056296_pW26 LoC_0s01g53260_pW23 H1961965_pW23 T3027906_pW23 LoC_0s06g44010_pW28 H1976995_pW28 LoC_0s05g46020_pW07 H2000561_pW07 T3066720_pW07 H2000561_pW07 T3095730_pW64 LoC_0s12g02450_pW64 LoC_0s12g02450_pW64 LoC_0s01g40260_pW77 T3097007_pW77 H1950043_pW77 LoC_0s09g25070_pW62 H1972014_pW62p T3091546_pW62 LoC_0s05g39720_pW70 H334389_pW70	220 2 TTTTAAAA TCTTAAGA ATTAAAA TCTTAAGA AATAAATTTGCATGAACA AATAAATTGCATGAACA AATAAATTGCATGAACA AATAAATTGCATGAACA AATAAATTGCATGAACA ACTAAAAGAGAAAAACCC ACTAAAAGAGAAAAACCC ACTAAAAGAGAAAAACCC ACTAAACGAGAAAAACCC ACTAAACGAGAATAATGA ACTAAACGAGAATAATGA ACTAAACGAGAATAATGA ACTAAACGAGAATAATGA ACTAAACGAGAATAATGA ACTAAACGAGAATAATGA ACTAAACGAGACTAATGA ACTAAACGAGACTAATAACA ACTAAACGAGACTAATACAA ACTAAACGAGACTAATACAA ACTAAACGAGACTAATACAA ACTAAACGAGACTAATACAA ACTAAACGAGACTAATACAA ACTAAACGAGACTAATACAA ACTAAACGAGACTAATACAA ACTAAACAGAGACTAATACAA ACTAAACAGAACACAACACAA ACTAAACAGAGACTAATACAA ACTAAACAGAAGACTAATACAA ACTAACACTACAACACAACACAA ACTACACTAC	30 240 	250 	260 270 	280
LoC_0s01g51690_pW26 H289702_pW26 T3056296_pW26 LoC_0s01g53260_pW23 H1961965_pW23 T3027906_pW23 LoC_0s06g44010_pW28 H1976995_pW28 T3063501_pW28 LoC_0s05g46020_pW07 H2000561_pW07 T3066720_pW07 H2002318_pW64 LoC_0s12g02450_pW64 LoC_0s01g40260_pW77 T3097007_pW77 H1950043_pW77 LoC_0s09g25070_pW62 H1972014_pW62p T3091546_pW62 LoC_0s05g39720_pW70 H334389_pW70 T3094952_pW70	220 2 TTTTAAAA TCTTAAGA ATTAAAA TCTTAAGA AATAAATTTGCATGAACA AATAAATTGCATGAACA AATAAATTGCATGAACA AATAAATTGCATGAACA AATAAATTGCATGAACA ACTAAAAGAGAAAAACCC ACTAAAAGAGAAAAACCC ACTAAAAGAGAAAAACCC ACTAAACGAGAAAAACCC ACTAAACGAGAATAATGA ACTAAACGAGAATAATGA ACTAAACGAGAATAATGA ACTAAACGAGAATAATGA ACTAAACGAGAATAATGA ACTAAACGAGAATAATGA ACTAAACGAGACTATTACA ACTAAACGAGACTATTACA ACTAAACGAGACTATTACA ACTAAACGAGACTATTACA ACTAAACGAGACTATTACA ACTAAACGAGACTATTACA ACTAAACGAGACTATTACA ACTAAACGAGACTATTACA ACTAAACGAGACTATTACA ACCGCTCT ACCACTCT ACCGCTCT ACCACTCT ACCACTCT ACCACTCT ACCACACT ACTACTACTACAGAGGCA TTTACTACTTCCAGAAGCCA	30 240 	250 	260 270 	280
Loc_os01g51690_pW26 H289702_pW26 T3056296_pW26 Loc_os01g53260_pW23 H1961965_pW23 T3027906_pW23 Loc_os06g44010_pW28 H1976995_pW28 T3063501_pW28 Loc_os05g46020_pW07 H2000561_pW07 T3066720_pW07 H2002318_pW64 Loc_os12g02450_pW64 Loc_os12g02450_pW64 Loc_os01g40260_pW77 T3097007_pW77 H1950043_pW77 Loc_os09g25070_pW62 H1972014_pW62p T3091546_pW62 Loc_os05g39720_pW70 H334389_pW70 T3094952_pW70 Loc_os05g45230_pW58 H1850565_pW58p	220 2 TTTTAAAA TCTTAAGA ATTAAAA TCTTAAGA AATAAATTTGCATGAACA AATAAATTGCATGAACA AATAAATTGCATGAACA AATAAATTGCATGAACA AATAAATTGCATGAACA ACTAAAAGAGAAAAACCC ACTAAAAGAGAAAAACCC ACTAAAAGAGAAAAACCC ACTAAACGAGAAAAACCC ACTAAACGAGAAAAACCC ACTAAACGAGAAAAACCC ACTAAACGAGAATAATGA ACTAAACGAGAATAATGA ACTAAACGAGAATAATGA ACTAAACGAGAATAATGA ACTAAACGAGAATAATGA ACTAAACGAGACTATTACA TTAACGAGACTATTACA ACTAAACGAGACTATTACA ACTAAACGAGACTATTACA ACTAAACGAGACTATTACA ACTAAACGAGACTATTACA ACTAAACGAGACTATTACA ACTAAACGAGACTATTACA ACTACATAT ACCGCTCT ACCACTC ACCACTC ACCACTCACACACACAC ACCGCAGCA CCCAGGAC CCCAGGAC CCCACGCAC ACCACCACACACACACACACACACACACACACACA	30 240 	250 	260 270 	280
Loc_os01g51690_pW26 H289702_pW26 T3056296_pW26 Loc_os01g53260_pW23 H1961965_pW23 T3027906_pW23 Loc_os06g44010_pW28 H1976995_pW28 T3063501_pW28 Loc_os05g46020_pW07 H2000561_pW07 T3066720_pW07 H2002318_pW64 Loc_os12g02450_pW64 Loc_os12g02450_pW64 Loc_os01g40260_pW77 T3097007_pW77 H1950043_pW77 Loc_os09g25070_pW62 H1972014_pW62p T3091546_pW62 Loc_os05g39720_pW70 H334389_pW70 T3094952_pW70 Loc_os05g45230_pW58 H1850565_pW58p T3075919_pW58 Loc_0s03c21710_pW79	220 2 TTTTAAAA TCTTAAGA ATTAAAA TCTTAAGA AATAAATTTGCATGAACA AATAAATTGCATGAACA AATAAATTGCATGAACA AATAAATTGCATGAACA AATAAATTGCATGAACA ACTAAAAGAGAAAAACCC ACTAAAAGAGAAAAACCC ACTAAAAGAGAAAAACCC ACTAAACGAGAAAAACCC ACTAAACGAGAAAAACCC ACTAAACGAGAATAATGA ACTAAACGAGAATAATGA ACTAAACGAGAATAATGA ACTAAACGAGAATAATGA ACTAAACGAGAATAATGA ACTAAACGAGAATAATGA ACTAAACGAGACTAATGA ACTAAACGAGACTAATGA ACTAAACGAGACTAATGA ACTAAACGAGACTAATGA ACTAAACGAGACTAATGA ACTAAACGAGACTAATGA ACTAAACGAGACTAATGA ACTAAACGAGACTAATGA ACTAAACGAGACTAATGA ACTAAACGAGACTAATGA ACCGCTCT ACCGCTCT ACCGCTCT ACCGCTCT ACCGCAGAC CGCAGGAC CGCAGGAC CGCAGGAC CGCAGGAC CCAGAC CCAGGAC CCAGGAC CCAGGAC CCACAC CCACAC CCACAC CCACAC CCACAC CCACAC CCACAC CCACAC CCACACAC CCACACAC CCACACAC CCACACAC CCACACAC CCACACAC CCA	30 240 	250 	260 270 	280
LoC_0s01g51690_pW26 H289702_pW26 T3056296_pW26 LoC_0s01g53260_pW23 H1961965_pW23 T3027906_pW23 LoC_0s06g44010_pW28 H1976995_pW28 T3063501_pW28 LoC_0s05g46020_pW07 H2000561_pW07 T3066720_pW07 H2002318_pW64 LoC_0s12g02450_pW64 LoC_0s12g02450_pW64 LoC_0s01g40260_pW77 T3097007_pW77 H1950043_pW77 LOC_0s09g25070_pW62 H1972014_pW62p T3091546_pW62 LoC_0s05g39720_pW70 H334389_pW70 T3094952_pW70 LoC_0s05g45230_pW58 H1850565_pW58p T3075919_pW58 LoC_0s03g21710_pW79	220 2 TTTTAAAA TCTTAAGA ATTAAAA TCTTAAGA AATAAATTTGCATGAACA AATAAATTGCATGAACA AATAAATTGCATGAACA AATAAATTGCATGAACA AATAAATTGCATGAACA ACTAAAAGAGAAAAACAC ACTAAAAGAGAAAAACAC ACTAAAAGAGAAAAACAC ACTAAACGAGAAAAACAC ACTAAACGAGAATAATGA ACTAAACGAGAATAATGA ACTAAACGAGAATAATGA ACTAAACGAGAATAATGA ACTAAACGAGAATAATGA ACTAAACGAGAATAATGA ACTAAACGAGAATAATGA ACTAAACGAGAATAATGA ACTAAACGAGAATAATGA ACTAAACGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACGAGACTATTAA ACTAAACGAGACTATTAA ACTAATAT ACCGCTCT ACCACTCT ACCGCTCT ACCGCTCT ACCACATCTCAGAAGGCA TTTACTACTTCAGAAGCGAT CGCAGGAC CGCAGGAC CCAAGCCCCAATGTA	30 240 	250 	260 270 	280
LoC_0s01g51690_pW26 H289702_pW26 T3056296_pW26 LoC_0s01g53260_pW23 H1961965_pW23 T3027906_pW23 LoC_0s06g44010_pW28 H1976995_pW28 T3063501_pW28 LoC_0s05g46020_pW07 H2000561_pW07 T3066720_pW07 H2002318_pW64 LoC_0s12g02450_pW64 LoC_0s12g02450_pW64 LoC_0s01g40260_pW77 T3097007_pW77 H1950043_pW77 LOC_0s09g25070_pW62 H1972014_pW62p T3091546_pW62 LoC_0s05g39720_pW70 H334389_pW70 T3094952_pW70 LoC_0s05g45230_pW58 H1850565_pW58p T3075919_pW58 LoC_0s03g21710_pW79 H1952278_pW79	220 2 TTTTAAAA TCTTAAGA ATTAAAA TCTTAAGA AATAAATTGCATGAACA AATAAATTGCATGAACA AATAAATTGCATGAACA AATAAATTGCATGAACA AATAAATTGCATGAACA ACTAAAAGAGAAAAACCC ACTAAAAGAGAAAAACCC ACTAAAAGAGAAAAACCC ACTAAACGAGAAAAACCC ACTAAACGAGAATAATGA ACTAAACGAGAATAATGA ACTAAACGAGAATAATGA ACTAAACGAGAATAATGA ACTAAACGAGAATAATGA ACTAAACGAGAATAATGA ACTAAACGAGAATAATGA ACTAAACGAGAATAATGA ACTAAACGAGACTAATGA ACTAAACGAGACTAATGA ACTAAACGAGACTAATGA ACTAAACGAGACTAATGA ACTAAACGAGACTAATGA ACTAAACGAGACTAATGA ACTAAACGAGAATAATGA ACTAAACGAGACTAATGA ACTAAACGAGACTAATAACA ACTAAACGAGACTAATAACA ACTAAACGAGACTAATAACA ACTAAACGAGACTAATAACA ACTAAACGAGACTAATAACA ACTAAACGACGACACTATAA ACCACTAT ACCGCTCT ACCGCTCT ACCGCTCT ACCGCTCT ACCGCAGAAGCAAGCAA CGCAGGAC CGCAGGAC CCAAGCACCCAAAGCGGT CATTCAACGCGCCAATGTA CATTCAACGCGCCAATGTA	30 240 	250 	260 270 	280
LoC_0s01g51690_pW26 H289702_pW26 T3056296_pW26 LoC_0s01g53260_pW23 H1961965_pW23 T3027906_pW23 LoC_0s06g44010_pW28 H1976995_pW28 T3063501_pW28 LoC_0s05g46020_pW07 H2000561_pW07 T3066720_pW07 H2002318_pW64 LoC_0s12g02450_pW64 LoC_0s12g02450_pW64 LoC_0s01g40260_pW77 T3097007_pW77 H1950043_pW77 LOC_0s09g25070_pW62 H1972014_pW62p T3091546_pW62 LoC_0s05g39720_pW70 H334389_pW70 T3094952_pW70 LoC_0s05g45230_pW58 H1850565_pW58p T3075919_pW58 LoC_0s03g21710_pW79 H1952278_pW79 T3070072_pW79 LOC_0s05g49620_pW19	220 2 TTTTAAAA TCTTAAGA ATTAAAA TCTTAAGA AATAAATTTGCATGAACA AATAAATTGCATGAACA AATAAATTGCATGAACA AATAAATTGCATGAACA AATAAATTGCATGAACA ACTAAAAGAGAAAAACAC ACTAAAAGAGAAAAACAC ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAACAACAACAA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGACAACAACAACAA ACTAAACAGACAACAACAACAACAACAACAACAACAACAACAA	30 240 	250 	260 270 	280
Loc_os01g51690_pW26 H289702_pW26 T3056296_pW26 Loc_os01g53260_pW23 H1961965_pW23 T3027906_pW23 Loc_os06g44010_pW28 H1976995_pW28 T3063501_pW28 Loc_os05g46020_pW07 H2000561_pW07 T3066720_pW07 H2002318_pW64 Loc_os12g02450_pW64 Loc_os12g02450_pW64 Loc_os01g40260_pW77 T3097007_pW77 H1950043_pW77 Loc_os09g25070_pW62 H1972014_pW62p T3091546_pW62 Loc_os05g39720_pW70 H334389_pW70 T3094952_pW70 Loc_os05g45230_pW58 H1850565_pW58p T3075919_pW58 Loc_os05g21710_pW79 H1952278_pW79 T3070072_pW79 Loc_os05g49620_pW19 H2014700_pW19	220 2 TTTTAAAA TCTTAAGA ATTAAAA TCTTAAGA AATAAATTGCATGAACA AATAAATTGCATGAACA AATAAATTGCATGAACA AATAAATTGCATGAACA AATAAATTGCATGAACA ACTAAAAGAGAAAAACCC ACTAAAAGAGAAAAACCC ACTAAAAGAGAAAAACCC ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGAATAATGA ACTAAACAGAGGAATAATGA ACTAAACAGAGGAATAATGA ACTAAACAGAACAACAACATA ACCGCTCT ACCGCTCT ACCGCTCT ACCGCTCT ACCGCAGAC CGCAGGAC CGCAGGAC CGCAGGAC CATTCAACGCGCCAATGTA CATTCAACGCGCCAATGTA CATTCAACACACAACAAC ACTAACACAACAACAACAACAACAACAACAACAACAACAA	30 240 II.ATTCAAGCAATTTA - ATTCAAGCAATTTA - GTTGGATATATAAG - GTTGGATATATTAA - GTTGGATATATTAA - GTTGGATATATTAA ATATTACCACAATTAA ATATTACCACAATTAA ATATTACCACAATTAA ATATTACCACAATTAA - ATCAGCACATATGA - ATCAGCACATATGA - ATCAGCACATATGA CTCTAGAATTCACTAG - ATCAGCACATACATTTT ATCTTAATACATTTTT ATCTTAATACATTTTT ATCTTAATACATTTTT ATCTTAATACATTTTT ATCTTAATACATTTTT ATCTTAATACATTTTT CCCACATACCGGATTA GCCCCCAATTCATTA GCTCCCCAATTCATTA GCTCCCCAATTCATTA GCTCCCCAATTCATTA GCTCCCCAATTCATTA GCCGCACGGCCGTCCT IACTAATGAATCTTTA TATTATCAACCCGCA GTATTATCAACCCGCA GTATTATCAACCCGCA	250 	260 270 	280
Loc_os01g51690_pW26 H289702_pW26 T3056296_pW26 Loc_os01g53260_pW23 H1961965_pW23 T3027906_pW23 Loc_os06g44010_pW28 H1976995_pW28 T3063501_pW28 Loc_os05g46020_pW07 H2000561_pW07 T3066720_pW07 H2000561_pW07 T3095730_pW64 Loc_os12g02450_pW64 Loc_os12g02450_pW64 Loc_os01g40260_pW77 T3097007_pW77 H1950043_pW77 Loc_os09g25070_pW62 H1972014_pW62p T3091546_pW62 Loc_os05g39720_pW70 H334389_pW70 T3094952_pW70 Loc_os05g45230_pW58 H1850565_pW58p T3075919_pW58 Loc_os05g21710_pW79 H1952278_pW79 T3070072_pW79 Loc_os05g49620_pW19 H2014700_pW19 T3058779_pW19	220 2 TTTTAAAA TCTTAAGA ATTAAAA TCTTAAGA AATAAATTTGCATGAACA AATAAATTGCATGAACA AATAAATTGCATGAACA AATAAATTGCATGAACA AATAAATTGCATGAACA ACTAAAAGAGAAAAACAC ACTAAAAGAGAAAAACAC ACTAAAAGAGAATAATGA ACTAAACAGAGAATAAGA ACTAAACAGAGATTATGA ACTAAACAGAGATTATGA ACTAAACAGAGATTATGA ACTAAACAGAGATTATGA ACTAAACAGAGATTATGA ACTAAACAGAGATTATGA ACTAAACAGAGATTATGA ACTAAACAGAGATTATGA ACTAAACAGAGATTATGA ACTAAACAGAGATTATGA ACTAAACAGAGATTATGA ACTAAACAGAGATTATGA ACTAAACAGAGATTATGA ACTAAACAGAGATTATGA ACTAAACAGAGATTATGA ACTAAACAGAGATTATGA ACTAAACAGACAACAT ACCGCTCT ACCGCTCT ACCGCGCT CGCAGGAC CCAGGAC CCAAGGCCCAATGTA CATTCAACGCGCCAATGTA CATTCAACACACCAC CTTCAACACACCACT ACCGCTCT CCCGCGCT CAACACACCACCAT CCCCGCGCT CAACACACCACCAT CCCCGCGCT CAACACACCACCAT CCCCGCCCT CAACACACCACCAT CCCCGCCCT CAACACACCACCAT CCCCGCCCT CCCCGCCCT CCCCGCCCT CCCCGCCCCAATGTA CCCCCCCAACACCAC CCCCCCACCAAC CCCCCCCAACACCAC CCCCCCACCAACCA	30 240 	250 	260 270 	280
LoC_OS01g51690_pW26 H289702_pW26 T3056296_pW26 LoC_OS01g53260_pW23 H1961965_pW23 T3027906_pW23 LoC_OS06g44010_pW28 H1976995_pW28 T3063501_pW28 LoC_OS05g46020_pW07 H2000561_pW07 T3066720_pW07 H2023318_pW64 LoC_OS12g02450_pW64 LoC_OS12g02450_pW64 LoC_OS01g40260_pW77 T3097007_pW77 H1950043_pW77 LOC_OS09g25070_pW62 H1972014_pW62p T3091546_pW62 LOC_OS05g39720_pW70 H334389_pW70 T3094952_pW70 LOC_OS05g45230_pW58 H1850565_pW58p T3075919_pW58 LOC_OS05g45230_pW79 H1952278_pW79 T3070072_pW79 LOC_OS05g49620_pW19 H2014700_pW19 T3058779_pW19 LOC_OS05g25060_pW76	220 2 TTTTAAAA TCTTAAGA ATTAAAA TCTTAAGA AATAAATTTGCATGAACA AATAAATTGCATGAACA AATAAATTGCATGAACA AATAAATTGCATGAACA AATAAATTGCATGAACA AATAAATTGCATGAACA AATAAATTGCATGAACA ACTAAAAGAGAAAAACAC ACTAAAAGAGAAAAACAC ACTAAACAGAGAATAATGA ACTAAACAGAGACAATATAGA ACTAAACAGACAACAACAACAACAACAACAACAACAACAACAA	30 240 	250 	260 270 	280

		0
LOC Os01g51690 pW26	CTTACCCTTTAACCTTAATACTCCCTC-CCTTTCAAATTATAAGAC-GTTTTAACTTTGGTTCAAG	333
H289702 pw26		1
T3056296_pW26	TAGATAATTTCGTATGGGTACTAGCCG-CAATATTGCGCTGGCTAC-CAGCTAGTTTTTTAGATAAT	332
LOC_Os01g53260_pW23	CGTGTGCATGCACCTGACCCCACCAAACG-CAAAGCTACCATTGCATC-GACCGCCTCCATCGGCCAT	341
H1961965_pW23	CGTGTGCATGCACCTGACCCCACCAAACG-CAAAGCTACCATTGCATC-GACCGCCTCCATCGGCCAT	341
T3027906_pW23	CGTGTGCATGCACCTGACCCCACCAAACG-CAAAGCTACCATTGCATC-GACCGCCTCCATCGGCCAT	341
LOC_Os06g44010_pW28	TTTCATATTTTAAGTCGTTTTAGTTTTTT - CTAATTAAACTTTTTTAA-GTTTGATGAATTTTGAAGAAA	230
H1976995_pW28	TTTCATATTTTAAGTCGTTTTAGTTTTTT-CTAATTAAACTTTTTTAA-GTTTGATGAATTTTGAAGAAA	323
T3063501_pw28	TTTCATATTTTAAGTCGTTTTAGTTTTTT-CTAATTAAACTTTTTTAA-GTTTGATGAATTTTGAAGAAA	323
LOC_0803948020_pw07	CCCGTGCCTATCGAACACGGTATCCGTGGGTAAAATCGCTATCGCTGCTGGTGCCAAGTAGACGGAGCT	212
T3066720 pW07	CCCCFICCTATCGARCACAGIAICCCFICGGGGARAAICGCTATCGCTCAGICCAAAGIAGACGGACCT	312
H2023318 pW64	TAAT-AGTTTAGGTGCAATCTATATATATACCACACGGTTGGAGTATAATCTGCGTAGCGATTC	175
T3095730 pW64	GAGTATAATCTGCGTAGTGATTC	44
LOC Os12q02450 pW64	TAATTAATCCATGATTAGCCTATGTGATGCTACAGTAAACATTCTCTAATTATAGATTAATTA	316
LOC 0s01g40260 pW77	GTGACGTACTCCCTCCGTCCAAAAAAAGACAAACCCTGAGTTTT-CGTGTCCAACGTTTGATTG	288
T3097007_pw77	GTGACGTACTCCCTCCGTCCAAAAAAGACAAACCCTGAGTTTT-CGTGTCCAACGTTTGATTG	288
H1950043_pW77	GTGACGTACTCCCTCCGTCCAAAAAAAGACAAACCCTGAGTTTT-CGTGTCCAACGTTTGATTG	287
LOC_Os09g25070_pW62	ACTAAATCCTGATTTGGTATTGACACAAACATATACGAAAAAGAACATATTGGACATCACGTTG	312
H1972014_pW62p	ACTAAATCCTGATTTGGTATTGACACAAACATATACGAAAAAGAACATATTGGACATCACGTTG	312
T3091546_pW62	ACTAAATCCTGATTTGGTATTGACACAAACATATACGAAAAAGAACATATTGGACATCACGTTG	312
LOC_OS05g39720_pW70		307
H334389_DW70	GCTACGCTACTTCGTGGTTCTATATGTAAGACACCACGAGGTAAATTTTTAAGAAAAAAAA	307
$13094952_pw/0$	GCTACGCTACTTCGTGGTTCTATATGTAAGACACCGCATGAAGTAAATTTTTAAGAAAAAAAA	307
H1850565 pW58p	ACCACCTTAATTCTGCGTCCCTGTTATACAGTAGAGGTATATTTATGCAAATATTTTCATGCAGGTA	315
T3075919 pW58	ACCATCTTAATTCTGCGTCCCTATTATACAGTAGAGGTATATTTGTGCAAATATTTTCATGTAGGTA	303
LOC Os03g21710 pW79	AGGAGGAGACCGATCCATTACGTACGTATAAAGAGAAGATGAAGCTACAATATATGCAGCTCGATCG	314
H1952278 pW79	AGGAGGAGACCGATCCATTACGTACGTATAAAGAGAAGATGAAGCTACAATATATGCAGCTCGATCG	314
T3070072_pW79	AGGAGGAGACCGATCCATTACGTACGTATAAAGAGAAGATGAAGCTACAATATATGCAGCTCGATCG	314
LOC_0s05g49620_pW19	AAAT-AATATTCCTTCGTT-CTAAAATATA-ACAACCTTAGTGGTCCTATTCGAATCTACCGTAAGAATG	301
H2014700_pW19	AAAT-AATATTCCTTCGTT-CTAAAATATA-ACAACCTTAGTGGTCCTATTCGAATCTACCGTAAGAATG	300
T3058779_pW19	AGTTTAGAACGGGGCCATTATTAGATTAGATATAATACTAAGGGTG-TGTTCGGACCTCTAGGTTC	304
LOC_Os09g25060_pW76	AAAAAACAGACCATAAATTTGTAGTGTGAGAGAGAGAGGAGCCAAGTATTAATGATTCAATGTAT	312
T3076120_pW76	AAAAAACAGACCATAAATTTGTAGTGTGAGAGAGATGAGCCAAGTATTAATGATTCAATGTATGT	296
H19/4322_pw/6p	AAAAAACAGACCATAAATTTGTAGTGTGAGAGATGAGCCAAGTATTAATGATTCAATGTA	312
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		D
LOC 0s01g51690 pW26	360 370 380 390 400 410 42 	400
LOC_Os01g51690_pW26 H289702_pW26	360 370 380 390 400 410 42 .	400 1
LOC_Os01g51690_pW26 H289702_pW26 T3056296_pW26	360 370 380 390 400 410 42 .	400 1 399
LOC_OS01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OS01g53260_pW23	360 370 380 390 400 410 42 	400 1 399 408
LOC_Os01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_Os01g53260_pW23 H1961965_pW23	360 370 380 390 400 410 42 TCAAACTGTTTCAAATTGTAGAAAATAATAATAATAATAATATTTTTAGCTCAACACAAAATTTATTATGAAA GAGAAGTATTTTCAATCGGTAGATACATGCCGCTCCCTCTGTTTCAACATATAAACATTTCTAGGAA TCAACCTGCAAGCGCTCGACCGGTCATCATCATCATCAGCTAAAAACTGCAAAAGACGACCCAAGAGAA TCAACCTGCAAGCGCTCGACCGGTCATCATCATCAGCTAAAAACTGCAAAAGACGACCCAAGAGAA	400 1 399 408 408
LOC_0s01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_0s01g53260_pW23 H1961965_pW23 T3027906_pW23	360 370 380 390 400 410 42 TCAAACTGTTTCAAATTGTAGAAAATAATAATAATAATAATATTTTTAGCTCAACACACAAATTTATTATGAAA Image:	400 1 399 408 408 408
LOC_OS01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OS01g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_OS06g44010_pW28	360 370 380 390 400 410 42 	400 1 399 408 408 408 295
LOC_OS01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OS01g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_OS06g44010_pW28 H1976995_pW28 H1976995_pW28	360 370 380 390 400 410 42 	400 1 399 408 408 408 295 388
LOC_OS01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OS01g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_OS06g44010_pW28 H1976995_pW28 T3063501_pW28 LOC_OS05g46020_pW07	360 370 380 390 400 410 42 	400 1 399 408 408 295 388 388 379
LOC_OSO1g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OSO1g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_OS06g44010_pW28 H1976995_pW28 T3063501_pW28 LOC_OS05g46020_pW07 H2000561_pW07	360 370 380 390 400 410 42 TCAAACTGTTTCAAATTGTAGAAAATAATAATAATAATATTTTTAGGTCAACACAAATTTATATAGAAA Interpretein Interpretein Interpretein GAGAAGTATTTTCAAATGGGTAGATACATGCCGCTCCGCT	400 1 399 408 408 408 295 388 388 388 379 379
LOC_OSO1g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OSO1g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_OS06g44010_pW28 H1976995_pW28 T3063501_pW28 LOC_OS05g46020_pW07 H2000561_pW07 T3066720_pW07	360 370 380 390 400 410 42 TCAAACTGTTTCAAATTGTAGAAAATAATAATAATAATATTTTTAGCTCAACACAAAATTTATATAGAAA Interpretein Interein <th>400 1 399 408 408 408 295 388 388 388 379 379 379</th>	400 1 399 408 408 408 295 388 388 388 379 379 379
LOC_OSO1g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OSO1g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_OS06g44010_pW28 H1976995_pW28 T3063501_pW28 LOC_OS05g46020_pW07 H2000561_pW07 T3066720_pW07 H2023318_pW64	360 370 380 390 400 410 42 TCAAACTGTTTCAAATTGTAGAAAATAATAATAATAATATTTTTAGCTCAACACAAATTTATATAGAAA Interpretein	400 1 399 408 408 295 388 388 379 379 379 243
LOC_OSO1g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OSO1g53260_pW23 H1961965_pW23 LOC_OSO6g44010_pW28 H1976995_pW28 T3063501_pW28 LOC_OSO5g46020_pW07 H2000561_pW07 T3066720_pW07 H2023318_pW64 T3095730_pW64	360 370 380 390 400 410 42 TCAAACTGTTTCAAATTGTAGAAAATAATAATAATAATATTTTTAGGTCAACACAAATTTATATAGAA Interpretein Interpretein<	400 1 399 408 408 408 295 388 388 379 379 379 379 243 112
LOC_OSO1g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OSO1g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_OS06g44010_pW28 H1976995_pW28 T3063501_pW28 LOC_OS05g46020_pW07 H2000561_pW07 T3066720_pW07 H2023318_pW64 T3095730_pW64 LOC_OS12g02450_pW64	360 370 380 390 400 410 42 TCAAACTGTTTCAAATTGTAGAAAATAATAATAATAATATTTTTAGCTCAACACAAATTTATATAGAAA Interpretein	400 1 399 408 408 408 295 388 379 379 379 379 243 112 385
LOC_OSO1g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OSO1g53260_pW23 H1961965_pW23 LOC_OSO6g44010_pW28 H1976995_pW28 T3063501_pW28 LOC_OSO5g46020_pW07 H2000561_pW07 T3066720_pW07 H2023318_pW64 T3095730_pW64 LOC_OS12g02450_pW64 LOC_OS01g40260_pW77	360 370 380 390 400 410 42 TCAAACTGTTTCAAATTGTAGAAAATAATAATAATAATAATATTTTTAGCTCAACACAAATTTATATAGAAA Interpretein Interpretein Interpretein GAGAAGTATTTTCAAATTGGTAGATACATGCCGCTCCCCCCCCCC	400 1 399 408 408 408 295 388 388 379 379 379 243 112 385 350
LOC_OSO1g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OSO1g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_OSO6g44010_pW28 H1976995_pW28 T3063501_pW28 LOC_OS05g46020_pW07 H200561_pW07 T3066720_pW07 H2023318_pW64 T3095730_pW64 LOC_OS12g02450_pW64 LOC_OS01g40260_pW77 T3097007_pW77	360 370 380 390 400 410 42 	400 1 399 408 408 408 408 295 388 388 379 379 243 112 385 350 350
Loc_os01g51690_pW26 H289702_pW26 T3056296_pW26 Loc_os01g53260_pW23 H1961965_pW23 Loc_os06g44010_pW28 H1976995_pW28 T3063501_pW28 Loc_os05g46020_pW07 H200561_pW07 T3066720_pW07 H2023318_pW64 T3095730_pW64 Loc_os12g02450_pW64 Loc_os01g40260_pW77 T3097007_pW77 H1950043_pW77	360 370 380 390 400 410 42 	400 1 399 408 408 408 295 388 388 379 379 243 112 385 350 350 349
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Loc_os01g51690_pW26 H289702_pW26 T3056296_pW26 Loc_os01g53260_pW23 H1961965_pW23 Loc_os06g44010_pW28 H1976995_pW28 T3063501_pW28 Loc_os05g46020_pW07 H2000561_pW07 T3066720_pW07 H2003518_pW64 T3095730_pW64 Loc_os01g40260_pW77 T3097007_pW77 H1950043_pW77 Loc_os09g25070_pW62 H1972014_pW62p	360 370 380 390 400 410 42 	400 1 399 408 408 408 295 388 379 379 243 379 379 243 3112 385 350 350 350 349 381 381 381
Loc_os01g51690_pW26 H289702_pW26 T3056296_pW26 Loc_os01g53260_pW23 H1961965_pW23 Loc_os06g44010_pW28 H1976995_pW28 Loc_os05g46020_pW07 H2000561_pW07 T3066720_pW07 H200318_pW64 T3095730_pW64 Loc_os01g40260_pW77 T3097007_pW77 H1950043_pW77 Loc_os09g25070_pW62 H1972014_pW62p T3091546_pW62 Loc os05g3720 pW70	360 370 380 390 400 410 42 TCAAACTGTTTCAAATTGTAGAAAATAATAATAATAATATTTTTAGCTCAACACAAATTAATATATAT	400 1 399 408 408 408 295 388 379 379 379 379 243 310 350 350 350 350 349 381 381 381 381 376
Loc_os01g51690_pW26 H289702_pW26 T3056296_pW26 Loc_os01g53260_pW23 H1961965_pW23 Loc_os06g44010_pW28 H1976995_pW28 Loc_os05g46020_pW07 H2000561_pW07 T3066720_pW07 H200318_pW64 T3095730_pW64 Loc_os01g40260_pW77 T3097007_pW77 H1950043_pW77 Loc_os09g25070_pW62 H1972014_pW62p T3091546_pW62 Loc_os05g39720_pW70 H334389_pW70	360 370 380 390 400 410 42 TCAAACTGTTTCAAATTGTAGAAAATAATAATAATAATAATATTTTTAGCCCAACACAAATTTATTAGAAA Interpretein Interpret	400 1 399 408 408 408 295 388 388 379 379 243 1125 350 350 350 350 350 349 381 381 381 381 381 376 376
Loc_os01g51690_pW26 H289702_pW26 T3056296_pW26 Loc_os01g53260_pW23 H1961965_pW23 Loc_os06g44010_pW28 H1976995_pW28 Loc_os05g46020_pW07 H2000561_pW07 T3066720_pW07 H200318_pW64 T3095730_pW64 Loc_os01g40260_pW77 T3097007_pW77 H1950043_pW77 Loc_os09g25070_pW62 H1972014_pW62p T3091546_pW62 Loc_os05g39720_pW70 H334389_pW70 T3094952_pW70	360 370 380 390 400 410 42 TCARACTGTTTCAAATTGTAGAAAATAATAATAATAATAATATTTTTAGGTCAACCACAAATTTATATGAAA Interpretein Interpre	400 1 399 408 408 408 295 388 388 388 379 379 243 112 385 350 350 350 350 350 351 381 381 381 376 376
Loc_os01g51690_pW26 H289702_pW26 T3056296_pW26 Loc_os01g53260_pW23 H1961965_pW23 T3027906_pW23 Loc_os06g44010_pW28 H1976995_pW28 Loc_os05g46020_pW07 H2000561_pW07 T3066720_pW07 H2003518_pW64 T3095730_pW64 Loc_os01g40260_pW77 H1950043_pW77 Loc_os09g25070_pW62 H1972014_pW62p T3091546_pW62 Loc_os05g39720_pW70 H334389_pW70 T3094952_pW70 Loc_os05g45230_pW58	360 370 380 390 400 410 42 TCARACTGTTTCAAATTGTAGAAAATAATAATAATAATAATATTTTTAGGTCAACCACAAATTTAATAGAAA Interpretein Interpre	400 1 399 408 408 408 295 388 389 379 379 243 112 385 350 349 381 381 381 376 376 376 376 376 376 376 376
Loc_os01g51690_pW26 H289702_pW26 T3056296_pW26 Loc_os01g53260_pW23 H1961965_pW23 T3027906_pW23 Loc_os06g44010_pW28 H1976995_pW28 Loc_os05g46020_pW07 H2000561_pW07 T3066720_pW07 H2023318_pW64 T3095730_pW64 Loc_os12g02450_pW64 Loc_os01g40260_pW77 T3097007_pW77 H1950043_pW77 Loc_os09g25070_pW62 H1972014_pW62p T3091546_pW62 Loc_os05g39720_pW70 H334389_pW70 T3094952_pW70 Loc_os05g45230_pW58 H1850565_pW58p	360 370 380 390 400 410 42 	400 1 399 408 408 408 295 388 389 379 379 243 112 385 350 350 349 381 381 381 376 376 376 376 376 376 376 376 376 376
LOC_OSO1g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OSO1g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_OSO6g44010_pW28 H1976995_pW28 LOC_OSO5g46020_pW07 H2000561_pW07 T3066720_pW07 H2023318_pW64 T3095730_pW64 LOC_OS12g02450_pW64 LOC_OS12g02450_pW64 LOC_OS01g40260_pW77 T3097007_pW77 H1950043_pW77 LOC_OS09g25070_pW62 H1972014_pW62p T3091546_pW62 LOC_OS05g3520_pW70 H334389_pW70 T3094952_pW70 LOC_OS05g45230_pW58 H1850565_pW58p T3075919_pW58	360 370 380 390 400 410 42 TCAAACTGTTTCAAATTGGAAAATAATAATAATAATATTTTTAGCTCAACACAAATTAATAATAATATATAT	400 1 399 408 408 408 295 388 388 379 379 243 112 385 350 349 350 349 381 381 381 376 376 376 376 376 376 376 376 376 376
Loc_os01g51690_pW26 H289702_pW26 T3056296_pW26 Loc_os01g53260_pW23 H1961965_pW23 T3027906_pW23 Loc_os06g44010_pW28 H1976995_pW28 Loc_os05g46020_pW07 H2000561_pW07 T3066720_pW07 H2023318_pW64 T3095730_pW64 Loc_os12g02450_pW64 Loc_os01g40260_pW77 T309707_pW77 H1950043_pW77 Loc_os09g25070_pW62 H1972014_pW62p T3091546_pW62 Loc_os05g4520_pW70 H334389_pW70 T3094952_pW70 Loc_os05g45230_pW58 H1850565_pW58p T3075919_pW58 Loc_os03g21710_pW79	360 370 380 390 400 410 42	400 1 399 408 408 408 295 388 388 379 379 243 112 385 350 350 350 350 350 350 351 381 381 376 376 376 376 376 376 376 376 376 376
LOC_OSO1g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OSO1g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_OSO6g44010_pW28 H1976995_pW28 LOC_OSO5g46020_pW07 H2000561_pW07 T3066720_pW07 H2023318_pW64 T3095730_pW64 LOC_OS01g40260_pW77 T3095707_pW77 H1950043_pW77 LOC_OS05g4520_pW62 H1972014_pW62p T3091546_pW62 LOC_OS05g45200_pW70 H334389_pW70 T3094952_pW70 LOC_OS05g45230_pW58 H1850565_pW58p T3075919_pW58 LOC_OS03g21710_pW79 H1952278_pW79	360 370 380 390 400 410 42 CAAACTGT - TTCAAATTGTAGAAAATAATAATAATAATAATAATAATATTTTAGCTCAACACACAC	400 1 399 408 408 408 295 388 388 379 379 243 112 385 350 350 350 350 350 351 381 381 381 376 376 376 376 376 376 381 381 381 381 381 381 381 381 381 381
Loc_os01g51690_pW26 H289702_pW26 T3056296_pW26 Loc_os01g53260_pW23 H1961965_pW23 T3027906_pW23 Loc_os06g44010_pW28 H1976995_pW28 T3063501_pW28 Loc_os05g46020_pW07 H2000561_pW07 T3066720_pW07 H2023318_pW64 T3095730_pW64 Loc_os01g40260_pW77 T309707_pW77 H1950043_pW77 Loc_os09g25070_pW62 H1972014_pW62p T3091546_pW62 Loc_os05g4520_pW70 H34389_pW70 T3094952_pW70 Loc_os05g45230_pW58 H1850565_pW58p T3075919_pW58 Loc_os03g21710_pW79 H1952278_pW79 T307072_pW79	360 370 380 390 400 410 42 	400 1 399 408 408 408 295 388 388 379 379 243 112 385 350 350 350 350 350 351 381 381 376 376 376 376 376 376 376 376 376 376
LOC_OSO1g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OSO1g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_OSO6g44010_pW28 H1976995_pW28 T3063501_pW28 LOC_OSO5g46020_pW07 H2000561_pW07 T3066720_pW07 H2003518_pW64 T3095730_pW64 LOC_OSO1g40260_pW77 T309707_pW77 H1950043_pW77 LOC_OS09g25070_pW62 H1972014_pW62p T3091546_pW62 LOC_OS05g45230_pW70 H34389_pW70 T3094952_pW70 LOC_OS05g45230_pW58 H1850565_pW58p T3075919_pW58 LOC_OS03g21710_pW79 H1952278_pW79 T3070072_pW79 LOC_OS05g49620_pW19 H2014700_pW19	360 370 380 390 400 410 42 	400 1 399 408 408 408 295 388 379 379 243 312 385 350 350 350 350 350 350 351 381 381 381 381 381 381 381 381 381 38
Loc_os01g51690_pW26 H289702_pW26 T3056296_pW26 Loc_os01g53260_pW23 H1961965_pW23 T3027906_pW23 Loc_os06q44010_pW28 H1976995_pW28 T3063501_pW28 Loc_os05g46020_pW07 H200561_pW07 T3066720_pW07 H2023318_pW64 Loc_os12g02450_pW64 Loc_os12g02450_pW64 Loc_os01g40260_pW77 T3097007_pW77 H1950043_pW77 Loc_os09g25070_pW62 H1972014_pW62p T3091546_pW62 Loc_os05g39720_pW70 H334389_pW70 T3094952_pW70 Loc_os05g45230_pW58 H1850565_pW58p T3075919_pW58 Loc_os03g21710_pW79 H1952278_pW79 T3070072_pW79 Loc_os05g49620_pW19 H2014700_pW19	360 370 380 390 400 410 42 	400 1 399 408 408 408 295 388 379 379 243 312 385 350 350 349 371 381 381 381 381 381 381 381 381 381 38
Loc_os01g51690_pW26 H289702_pW26 T3056296_pW26 Loc_os01g53260_pW23 H1961965_pW23 Loc_os06g44010_pW28 H1976995_pW28 T3063501_pW28 Loc_os05g46020_pW07 H200561_pW07 T3066720_pW07 H2003518_pW64 Loc_os12g02450_pW64 Loc_os01g40260_pW77 T3097007_pW77 H1950043_pW77 Loc_os09g25070_pW62 H1972014_pW62p T3091546_pW62 Loc_os05g39720_pW70 H334389_pW70 T3094952_pW70 Loc_os05g45230_pW58 H1850565_pW58p T3075919_pW58 Loc_os03g21710_pW79 H1952278_pW79 T3070072_pW79 Loc_os05g49620_pW19 H2014700_pW19 T3058779_pW19 Loc <os09g25060_pw76< th=""><th>360 370 380 390 400 410 42 TCAAACTGTTTCCAATTTGTAGAAAATAATAATAATAATAATATTTTAGCCCAACACAAATTTATATAGAAA TCAAACTGTTTCCAATCGGTAGATACATCGCCGCCCCCCCCCC</th><th>400 1 399 408 408 408 295 388 379 379 243 312 350 350 349 371 381 381 381 381 361 361 361 380 380 380 380 380 380 373 373 373 381 381 381 381 381 381 381 381 381 38</th></os09g25060_pw76<>	360 370 380 390 400 410 42 TCAAACTGTTTCCAATTTGTAGAAAATAATAATAATAATAATATTTTAGCCCAACACAAATTTATATAGAAA TCAAACTGTTTCCAATCGGTAGATACATCGCCGCCCCCCCCCC	400 1 399 408 408 408 295 388 379 379 243 312 350 350 349 371 381 381 381 381 361 361 361 380 380 380 380 380 380 373 373 373 381 381 381 381 381 381 381 381 381 38
Loc_os01g51690_pW26 H289702_pW26 T3056296_pW26 Loc_os01g53260_pW23 H1961965_pW23 T3027906_pW23 Loc_os06q44010_pW28 H1976995_pW28 T3063501_pW28 Loc_os05g46020_pW07 H200561_pW07 T3066720_pW07 H2023318_pW64 Loc_os12g02450_pW64 Loc_os01g40260_pW77 T3097007_pW77 H1950043_pW77 Loc_os09g25070_pW62 H1972014_pW62p T3091546_pW62 Loc_os05g39720_pW70 H334389_pW70 T3094952_pW70 Loc_os05g45230_pW58 H1850565_pW58p T3075919_pW58 Loc_os03g21710_pW79 H1952278_pW79 T3070072_pW79 Loc_os05g49620_pW19 H2014700_pW19 T3058779_pW19 Loc_os09g25060_pW76	360 370 380 390 400 410 42 TCAAACTGTTTCCAATTTGTAGAAAATAATAATAATAATAATATTTTAGCCCAACACAAAATTTATTATGAAA GGGAGGTATTTTCCAATTGGTAGAAAATAATAATAATAATATTTTAGCCCAACACACAC	400 1 399 408 408 408 295 388 379 379 243 379 379 243 3125 350 350 349 381 381 381 381 381 381 376 376 381 381 381 381 381 361 380 380 380 380 380 380 380 380 380 380

	430	440	450	460	470	480	490	
LOC 0s01q51690 pW26	ATATATTCAATTATTA	ATTTAA	-TGAAACTAT	-TTATAAA	-TATTACTATA	TTTA	TGCA 45	56
H289702_pW26					-TATTACTATA	TTTA	TGCA 23	3
T3056296_pW26	TAAATTTTATACATAA	PACAAG	-TATTTCTAI	GTCACCAA	-TTCCAATATA	CGAAATCTA	TACA 46	61
LOC_Os01g53260_pW23	GAAACGATCTAGAACG	ACC-G	-TGCCGTCCT	GCCGTGAA	-TCAGAACTTT	TCCTAGTTA	ACT 46	68
T3027906 pW23	GAAACGATCTAGAACG	ACC-G	-TGCCGTCC1	GCCGTGAA	-TCAGAACTTT -TCAGAACTTT	TCCTAGTTA	-ACT 46	68 68
LOC Os06g44010 pW28	TAATTTTATTTTGTAG	TGTTG	CTAATTTTC	TCTGTAAA	-CTTAATTAAA	TCTTA	AAAA 35	53
H1976995_pW28	TAATTTTATTTGTAG	ATGTTG	-CTAATTTTC	TCTGTAAA	- <mark>СТТААТТААА</mark>	TCTTA	AAAA 44	46
T3063501_pW28	TAATTTTATTTGTAG	TGTTG	-CTAATTTTT	TCTGTAAA	-CTTAATTAAA	TCTTA	AAAA 44	46
LOC_0S05g46020_pW07 H2000561 pW07	AAGCGTCTGAGTTTAAA	ATTAAG	-TGAGTGCAT -TGAGTGCAT	ATTTAATGAA	-аатааатааа -аатааатааа	CTATATCTA CTATATCTA	AAAA 44	43 43
T3066720 pW07	AAGTGTCTGAGTTTAA	ATTAAG	-TAAGTGTAT	ATTTGGTGAA	-AATAAACGAA	CTATATCTA	AAAA 44	43
H2023318_pW64	AACGTACTACCTGATG	ATCTA	TCAAGCTAG	CACTAAGGA-	AGAAACTGA	GTCCATGCA	TATA 30	04
T3095730_pW64	AACGTACTACCTGATG	ATCTA	TCAAGCTAG	CACTAAGGA-	AGAAACTGA	GTCCATGCA	TATA 17	73
LOC_0s12g02450_pW64		ACAGGGAC	CTAAAGTTAA				TATA 45	52 96
T3097007 pW77	TTAA-TACTTTAT		GCGTGA	CTTGTCTT	TTTAATTTT	TTTTCATAG	TT 39	96
H1950043_pW77	TTAATACTTTAT		GCGTGA	CTTGTCTT	TTTAATTTT	TTTTCATAG	TT 39	95
LOC_Os09g25070_pW62	TAAAGATACTTCCTCT	TTTTAGAAA	AAAGGCAAAT	CCTGACTACG	TATCTAAAGAT	AATACATGC	CTAA 45	51
H1972014_pW62p	TAAAGATACTTCCTCT	CTTTTAGAAAA	AAAGGCAAAT	CCTGACTACG	TATCTAAAGAT		CTAA 45	51 51
LOC Os05g39720 pW70	TTTGGTCACACCATGT	TA1	PAAAGCAGGT	CCTATCTTGT	ATCCTAGAAAC	ACTAAATTA	AT 43	36
H334389_pW70	TTTGGTCACACCATGT	TA	TAAAGCAGGT	CCTATCTTGT	ATCCTAGAAAC	АСТАААТТА	AT 43	36
T3094952_pW70	TTTGGTCACACCATGT	TA 3	TAAAGCAGGT	CCTATCTTGT	ATCCTAGAAAC	АСТАААТТА	AT 43	36
LOC_Os05g45230_pW58	TCAAACGGACGCAATT	GAC	CACGCATGA	CACATATAAA	ACCAACACTAC	GTGAACAAA	AA 44	41
т3075919 рW58	TCAAACGGACGCAATT	GAC	CACGCATGA		ACCAACACTAC	GTGAACAAA GTGAACAAA	AA 42	41 29
LOC Os03g21710 pW79	GCAACGAAAGCAAC	ATGTGTACAC	TAAAAGAGA	CGAAATTTCT	ATCCAAAGTAG	ATGCGGA	CAAC 44	45
H1952278_pW79	GCAACGAAAGCAAC	ATGTGTACAC	TAAAAGAGA	CGAAATTTCT	A <mark>TCC</mark> AAAG <mark>T</mark> AG	ATGCGGA	CAAC 44	45
T3070072_pW79	GCAACGAAAGCAAC	ATGTGTACAC	TAAAAGAGA	CGAAATTTCT	ATCCAAAGTAG	ATGCGGA	CAAC 44	45
H2014700 pw19	TCTTAAAAATGGAT-T.	PATTAGAATT" PATTAGAATT"	ГТГАТАСТАА РФФАФАСФАЗ	CTTTTAT	АТАGАААGTTT Атаgааасттт	TCAAACACA TCAAACACA	CCGT 43	30 35
T3058779 pW19	GTTTCTATATGAAAGT	GCTTAAAAA	АТСАААТТАА	TCTATTTTTT	ТТААААААТТ	AGCTA	ATAC 43	39
LOC_Os09g25060_pW76	TACTTGACTATATTAT	CAAACTTGCTC	TAACACTGO	GGTCTTCAAT	TTATAAGTAAT	TAAGTAC GG	<mark>ссст</mark> 43	39
T3076120_pW76	TACTTGGCTATATTAT	CAAACTTGCT	CTAACACTGO	GGTCTTCAAT	TTATAAGTAAT	TAAGTACGG	CCCT 43	36
H19/4322_pw/6p	TACTTGACTATATTAT	CAAACTTGCTC	TAACACTGC	GGTCTTCAAT	TTATAAGTAAT	TAAGTACGG	CCCT 43	39
	500	510	520	530	540	550	560	
	500	510 ••• •••• ••	520 • • • • • • • •	530 ••• •••• •	540 • • • • • • • • •	550 •• ••• •	560 •••I	1.0
LOC_0s01g51690_pW26	500 TAAACCTAGTTAAA TAAACCTAGTTAAA	510 CTTG2	520 . AAGTAGTTTG	530 . SACTTTGACCA	540 AAGTCAAAACA	550 	560 CTGA 51	18
LOC_OS01g51690_pW26 H289702_pW26 T3056296 pW26	500 TAAACCTAGTTAAA TAAACCTAGTTAAA TTTTCAGCCAATTAGA	510 TTG TTG	520 AAGTAGTTTG AAGTAGTTTG AAGGAACTCA	530 	540 	550 	560 CTGA 51 CTGA 85	18 5 25
LOC_OS01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OS01g53260_pW23	500 TAAACCTAGTTAAA TAAACCTAGTTAAA TTTTCAGCCAATTAGA TTACGTACCAGTAGAG	510 TTGA TTGA FGGTTTAA FACGTACGTAT	520 AAGTAGTTTC AAGTAGTTTC AAGGAACTCA FACGTACTGT	530 	540 	550 	560 CTGA 51 CTGA 85 CTGA 52 CTGA 53	18 5 25 37
LOC_OS01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OS01g53260_pW23 H1961965_pW23	500 TAAACCTAGTTAAA TAAACCTAGTTAAA TTTTCAGCCAATTAGA TTACGTACCAGTAGAG TTACGTACCAGTAGAG	510 T TG2 T TG2 IGGTT TA2 IACGTACGTAT IACGTACGTAT	520 AAGTAGTTTC AAGTAGTTTC AAGGAACTCA FACGTACTGI	530 GACTTTGACCA GACTTTGACCA IAGCAATTTAA IAACTTTTACA	540 AAGTCAAAACA AAGTCAAAACA AATTCGAA GACAGGAA-CA GACAGGAA-CA	550 	560 CTGA 51 CTGA 85 CTGA 52 TTCG 53	18 5 25 37 37
LOC_OS01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OS01g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_OS05c4010_pW28	500 TAAACCTAGTTAAA TAAACCTAGTTAAA TTTTCAGCCAATTAGA TTACGTACCAGTAGAG TTACGTACCAGTAGAG TTACGTACCAGTAGAG	510 	520 AAGTAGTTTC AAGTAGTTTC AAGGAACTCA FACGTACTGT FACGTACTGT FACGTACTGT	530 SACTTTGACCA SACTTTGACCA MAGCAATTTAA MACTTTTACA MACTTTTACA CACTTTTACA	540 AAGTCAAAACA AAGTCAAAACA AATTCGAA GACAGGAA-CA GACAGGAA-CA GACAGGAA-CA	550 	560 CTGA 51 CTGA 85 CTGA 52 TTCG 53 TTCG 53 TTCG 53	18 5 25 37 37 37
LOC_OS01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OS01g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_OS06g44010_pW28 H1976995_pW28	500 TAAACCTAGTTAAA TAAACCTAGTTAAA TTTTCAGCCAATTAGA TTACGTACCAGTAGAG TTACGTACCAGTAGAG TAATGGCAAATAAA TAATGGCAAATAAA	510 I T TGJ I GGTT TGJ I GGTT TAJ I ACGTACGTAT I ACGTACGTAT I GACTTGTAAT	520 AAGTAGTTTC AAGTAGTTTC AAGGAACTCA TACGTACTGT TACGTACTGT TACGTACTGT TATAGAACGG	530 CONTINUES STATES S	540 AAGTCAAAACA AAGTCAAAACA AATTCGAA GACAGGAA-CA GACAGGAA-CA GACAGGAA-CA TTTTTTAA TTTTTTAA	550 TCTTATAAC TTTCGACCG CCTTTTGAC CCTTTTGAC CCTTTTGAC GCTAAGAT GCTAAGAAT	560 CTGA 51 CTGA 52 CTGG 53 CTTCG 53 CTTCG 53 CTTCG 53 CCGAG 41 CCGAG 51	18 5 25 37 37 37 18 11
LOC_OS01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OS01g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_OS06g44010_pW28 H1976995_pW28 T3063501_pW28	500 TAAACCTAGTTAAA TAAACCTAGTTAAA TTTTCAGCCAATTAGA TTACGTACCAGTAGAG TTACGTACCAGTAGAG TAACGGCAAATAAA TAATGGCAAATAAA TAATGGCAAATAAA	510 	520 AAGTAGTTCG AAGGAACTCA TACGTACTGT TACGTACTGT TACGTACTGT TATAGAACGG TATAGAACGG TATAGAACGG	530 CONTINUES SAUTORIA SACTITGACCA MACANTTACA MACTITTACA MACTITTACA SAGAGTATCT SAGAGTATCT SAGAGTATCT	540 AAGTCAAAACA AAGTCAAAACA AATTCGAA GACAGGAA-CA GACAGGAA-CA GACAGGAA-CA TTTTTTAA TTTTTTAA TTTTTTAA	550 TCTTATAAC TCTTATAAC TTTCGACCG CCTTTTGAC CCTTTTGAC GCTAAGGAT GCTAAGGAT	560 CTGA 51 CTGA 52 CTGA 53 CTGG 53 CTCG 53 CTCG 53 CCGAG 41 CCGAG 51	18 5 37 37 37 18 11
LOC_OS01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OS01g53260_pW23 H1961965_pW23 LOC_OS06g44010_pW28 H1976995_pW28 T3063501_pW28 LOC_OS05g46020_pW07	500 TAAACCTAGTTAAA TTTTCAGCCAATTAGA TTTTCAGCCAATTAGA TTACGTACCAGTAGAG TTACGTACCAGTAGAG TAACGGCAATAAA TAATGGCAAATAAA TAATGGCAAATAAA	510 	520 AAGTAGTTC AAGTACTCT TACGTACTCT TACGTACTCT TACGTACTCT TATAGAACGO TATAGAACGO TATAGAACGO TATAGAACGO	530 	540 AAGTCAAAACA AATTCGAA GACAGGAA-CA GACAGGAA-CA GACAGGAA-CA TTTTTTAA TTTTTTAA TTTTTTAA CCCTCCCAAAA	550 TCTTATAAC TCTTATAAC TTTCGACCG CCTTTTGAC CCTTTTGAC GCTAAGGAT GCTAAGGAT GCTAAGGAT	560 CTGA 51 CTGA 52 CTGA 52 TTCG 53 TTCG 53 CGAG 41 CGAG 51 CGAG 51 TTAG 51 CGAG 51 CGAG 51 CGAG 51 CGAG 51 CGAG 51 CGAG 51 CGAG 51 CGA 51 CGA 51 CTGA 52 CTGA 51 CTGA 51 CT	18 5 25 37 37 37 18 11 10
LOC_OS01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OS01g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_OS06g44010_pW28 H1976995_pW28 T3063501_pW28 LOC_OS05g46020_pW07 H2000561_pW07	500 TAAACCTAGTTAAA TAAACCTAGTTAAA TTTTCAGCCAATTAGA TTACGTACCAGTAGAG TTACGTACCAGTAGAG TTACGTACCAGTAGAG TAATGGCAAATAAA TAATGGCAAATAAA TAATGGCAAATAAA ATTTTCTTAACCGG ATTTTCTTAACCGG	510 	520 AAGTAGTTCO AAGTAGTTCO TACGTACTCT TACGTACTCT TACGTACTCT TATAGAACGO TATAGAACGO TATAGAACGO TCCTATCTCC TCCTATCTCC	530 	540 AAGTCAAAACA AAGTCAAAACA AATTCGAA GACAGGAA-CA GACAGGAA-CA GACAGGAA-CA TTTTTTTAA TTTTTTTAA TTTTTT-AA CCCTCCCAAAA CCCTCCCAAAA	550 TCTTATAAC TCTTATAAC TTTCGACCG CCTTTTGAC CCTTTTGAC CCTAAGGAT GCTAAGGAT GCTAAGGAT TTTCTTGGT	560 CTGA 51 CTGA 52 CTGA 52 CTGA 53 CTGG 53 CGGG 41 CGGG 51 CGGG 51 CGGG 51 CGGG 51 CTTG 51 CTTG 51	18 5 25 37 37 37 18 11 10 11
LOC_OS01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OS01g53260_pW23 H1961965_pW23 LOC_OS06g44010_pW28 H1976995_pW28 T3063501_pW28 LOC_OS05g46020_pW07 H2000561_pW07 T3066720_pW07 H2023318_pW64	500 TAAACCTAGTTAAA TAAACCTAGTTAAA TTTTCAGCCAATTAGA TTACGTACCAGTAGAG TTACGTACCAGTAGAG TTACGTACCAGTAGAG TAATGGCAAATAAA TAATGGCAAATAAA ATTTTCTTAACCGG ATTTTCTTAACCGG TATGAGCTCCATTCAG	510 	520 AAGTAGTTC AAGTAGTTC AAGTACTCA TACGTACTCA TACGTACTCA TACGTACTCA TATAGAACGG TATAGAACGG TCTATCTCC CCTATCTCC CCTATCTCC CCTATCTCC CCTGGTATAC	530 CALTTGACCA CALTTGACCA CACTTTGACCA CACTTTTACA CACTTTTACA CACTTTTACA CAGAGTATCT CAGAGTATCT CAGAGTATCT CAGGTTCACC CAGCTTCACC CAGCTTCACC CAGCTTCACC	540 AAGTCAAAACA AAGTCAAAACA AATTCGAA GACAGGAA-CA GACAGGAA-CA GACAGGAA-CA TTTTTTTAA TTTTTTTAA TTTTTTTAA CCCTCCCAAAA CCCTCCCAAAA TAGT	550 TCTTATAAC TCTTATAAC TTTCGACCG CCTTTTGAC CCTTTTGAC GCTAAGGAT GCTAAGGAT TTTCTTGGT TTTCTTGGT TTTCTTGGT	560 CCTGA 51 CCTGA 52 CTTGA 52 CTTGG 53 CCGAG 51 CCGAG 51	18 5 25 37 37 37 18 11 10 11 11 11 63
LOC_OS01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OS01g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_OS06g44010_pW28 H1976995_pW28 T3063501_pW28 LOC_OS05g46020_pW07 H2000561_pW07 T3066720_pW07 H2023318_pW64 T3095730_pW64	500 TAAACCTAGTTAAA' TAAACCTAGTTAAA' TTTTCAGCCAATTAGA' TTACGTACCAGTAGAG' TTACGTACCAGTAGAG' TTACGTACCAGTAGAG' TAATGGCAAATAAA' TAATGGCAAATAAA' ATTTTCTTAACCGG' AATTTCTTAACCGG' TATGAGCTCCATTCAG' TATGAGCTCCATTCAG	510 	520 AAGTAGTTC AAGTAGTTC AAGTACTCT TACGTACTGT TACGTACTGT TACGTACTGT TATAGAACGG TATAGAACGG TCTATCTCC CCCTATCTCC CCCTATCTCC CCCTATCTCC TGTGGTATAG	530 CALL CALL CALL CALL CALL CALL CALL CALL	540 AAGTCAAAACA AAGTCAAAACA AATTCGAA GACAGGAA-CA GACAGGAA-CA TTTTTTAA TTTTTTAA TTTTTT-AA CCCTCCCAAAA CCCTCCCAAAA CCCTCCCAAAA TAGT	550 TCTTATAAC TCTTATAAC TTTCGACCG CCTTTTGAC CCTTTTGAC CCTAAGGAT GCTAAGGAT TTTCTTGGT TTTCTTGGT TTTCTTGGT TTTTATGCG TTTTATGCG	560 CTGA 51 CTGA 52 TTCG 53 TTCG 53 TTCG 53 CGAG 41 CGAG 51 CGAG 51 TTAG 51 TTAG 51 TTAG 51 TTAG 51 TTAG 52 TTAG 23	18 5 25 37 37 37 18 11 11 11 11 11 32
LOC_OS01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OS01g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_OS06g44010_pW28 H1976995_pW28 T3063501_pW28 LOC_OS05g46020_pW07 H2000561_pW07 T3066720_pW07 H2002318_pW64 T3095730_pW64 LOC_OS12g02450_pW64	500 TAAACCTAGTTAAA' TAAACCTAGTTAAA' TTTTCAGCCAATTAGA' TTACGTACCAGTAGAG' TTACGTACCAGTAGAG' TTACGTACCAGTAGAG' TAATGGCAAATAAA' TAATGGCAAATAAA' ATTTTCTTAACCGG' AATTTTTTAACCGG' TATGAGCTCCATTCAG' TATGAGCTCCATTCAG	510 	520 AAGTAGTTCO AAGTAGTTCO AAGGACTCA TACGTACTGT TACGTACTGT TACGTACTGT TATAGAACGO TATAGAACGO TCTTATCTCC TCCTATCTCC TCCTATCTCC TGTGGTATAC TGTGGTATAC	530 CALL CALL CALL CALL CALL CALL CALL CALL	540 AAGTCAAAACA AATTCGAA GACAGGAA-CA GACAGGAA-CA GACAGGAA-CA TTTTTTAA TTTTTTAA CCCTCCCAAAA CCCTCCCAAAA CCCTCCCAAAA TAGT TAGT	550 TCTTATAAC TCTTATAAC TTTCGACCG CCTTTTGAC CCTTTTGAC GCTAAGGAT GCTAAGGAT TTTCTTGGT TTTCTTGGT TTTCTTGGT TTTTATGCG TTTTATGCG	560 CTGA 51 CTGA 52 TTCG 53 TTCG 53 TTCG 53 TTCG 53 CGAG 51 TTCG 51 TTAG 51 TTAG 51 TTAG 51 TTAG 52 TTAG 52 TTAG 52 TTAG 52 TCAC 23 TCAC 50	18 5 25 37 37 18 11 11 11 63 32 09
LOC_OS01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OS01g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_OS06g44010_pW28 H1976995_pW28 LOC_OS05g46020_pW07 H2000561_pW07 T3066720_pW07 H2023318_pW64 T3095730_pW64 LOC_OS12g02450_pW64 LOC_OS12g0260_pW77	500 TAAAC CTAGTTAAA' TAAAC CTAGTTAAA' TTTTCAGCCAATTAGA' TTACGTACCAGTAGAG' TTACGTACCAGTAGAG' TTACGTACCAGTAGAG' TAATG GCAAATAAA' TAATG GCAAATAAA' TAATG GCAAATAAA' TAATG GCAAATAAA' TATTT CTTAACCGG' ATTTT CTTAACCGG' TATGAGCTCCATTCAG' TATGAGCTCCATTCAG' TATGAGCTCCATTCAGG' TATGAGCTCCATTCAGG' TATGAGCTCCATTCAGG'	510 	520 AAGTAGTTTC AAGTAGTTTC AAGTACTCT TACGTACTGT TACGTACTGT TACGTACTGT TATAGAACGG TATAGAACGG TCCTATCTCC TCCTATCTCC TCCTATCTCC TGTGGTATAC TGTGGTATAC	530 CALL CALL CALL CALL CALL CALL CALL CALL	540 AAGTCAAAACA AAGTCAAAACA AATTCGAA GACAGGAA-CA GACAGGAA-CA GACAGGAA-CA TTTTTTTAA TTTTTTAA TTTTTT-AA CCCTCCCAAAA CCCTCCCAAAA CCCTCCCAAAA TAGT TAGT AAGCAACTAG 	550 TCTTATAAC TCTTATAAC TTTCGACCG CCTTTTGAC CCTTTTGAC CCTTTTGAC GCTAAGGAT TTTCTTGGT TTTCTTGGT TTTCTTGGT TTTTATGCG TTTTATGCG GGAAACGTT GGGAACCTT	560 CTGA 51 CTGA 52 TTCG 53 TTCG 53 TTCG 53 CGAG 51 TTAG 51 TTAG 51 TTAG 51 TTAG 51 TTAG 52 TTAG 52 TTAG 54 TTAG 54 TT	18 5 25 37 37 37 18 11 11 11 11 11 63 20 9 63 62
LOC_OS01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OS01g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_OS06g44010_pW28 H1976995_pW28 LOC_OS05g46020_pW07 H2000561_pW07 T3066720_pW07 H2023318_pW64 T3095730_pW64 LOC_OS12g02450_pW64 LOC_OS12g02450_pW64 LOC_OS01g40260_pW77 T3097007_pW77 H1950043_pW77	500 TAAAC CTAGTTAAA' TAAAC CTAGTTAAA' TTTTCAGCCAATTAGA' TTACGTACCAGTAGAG' TTACGTACCAGTAGAG' TTACGTACCAGTAGAG' TAATG GCAAATAAA' TAATG GCAAATAAA' ATTTT CTTAACCGG' AATTT CTTAACCGG' AATTT CTTAACCGG' TATGAGCTCCATTCAG' TATGAGCTCCATTCAG' TATGAGCTCCATTCAGG' TATGAGCTCCATTCAGG' TATGAGCTCCATTCAGG' TATGAGCTCCATTCAGG' TATGAGCTCCATTCAGG'	510 	520 AAGTAGTTTC AAGTAGTTTC AAGTACTCT TACGTACTCT TACGTACTCT TATAGAACGG TCCTATCTCC TCCTATCTCC TGTGGTATAC TCTGGTATAC TCTGGTATAC TCTGGGTAC TTTTGGGACC TTTTGGGACC	530 	540 AAGTCAAAACA AAGTCAAAACA AATTCCAA GACAGGAA-CA GACAGGAA-CA GACAGGAA-CA TTTTTTAA TTTTTTAA TTTTTTAA CCCTCCCAAAA CCCTCCCAAAA CCCTCCCAAAA TAGT TAGT AAGCAACTAG -AAGCAACTAG	550 TCTTATAAC TCTTATAAC TTTCGACCG CCTTTTGAC CCTTTTGAC CCTTTTGAC GCTAAGGAT TTTCTTGGT TTTCTTGGT TTTCTTGGT TTTTATGCG TTTTATGCG GGAAACGTT GGAAACGTT	560 CTGA 51 CTGA 52 TTCG 53 TTCG 53 TTCG 53 CGAG 51 TTAG 51 TTAG 51 TTAG 51 TTAG 51 TTAG 52 TCAC 36 TCAC 36 CCGT 46 CCGT 46	18 5 25 37 37 37 11 11 11 11 11 11 32 9 63 62 62
LOC_OS01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OS01g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_OS06g44010_pW28 H1976995_pW28 T3063501_pW28 LOC_OS05g46020_pW07 H200561_pW07 T3066720_pW07 H2023318_pW64 T3095730_pW64 LOC_OS12g02450_pW64 LOC_OS12g02450_pW77 H1950043_pW77 LOC_OS09g25070_pW62	500 TAAAC CTAGTTAAA' TAAAC CTAGTTAAA' TTTTCAGCCAATTAGA' TTACGTACCAGTAGAG' TTACGTACCAGTAGAG' TAATG GCAAATAAA' TAATG GCAAATAAA' ATTTT CTTAACCGG' ATTTT CTTAACCGG' TATGAGCTCCATTCAG' TATGAGCTCCATTCAG' TATGAGCTCCATTCAG' TATGAGCTCCATTCAG' TATGAGCTCCATTCAG' TATGAGCTCCATTCAG' TATGAGCTCCATTCAG' TATGAGCTCCATTCAG' TTTATAA-AAGAGTT' -TTTATAA-AAGAGTT'	510 	520 AAGTAGTTC AAGTAGTTC AAGGAACTCA TACGTACTGT TACGTACTGT TATAGAACGG TCCTATCTCC CCCTATCTCC CCCTATCTCC CCCTATCTCC CCCTATCTCC TGTGGTATAG TGTGGTATAG TGTGGTATAG TGTGGGACGGACG GACGCGGAGT	530 CALLING CALL SACTTTGACCA LACTATTGACCA LACATTTACA CAACTTTTACA CAACTTTTACA CAACATTTACA CAACAGATATCT CAACAGATATCT CAACATTCACC CAACATTCACC CAACATTCACC CAACATTCACC CAACATTCACC CAACATTCACC CAACATTCACC CAACATTCACC CAACATTCACC CAACATTCACC CAACATTCACC CAACATTCACC CAACATTCACC CAACATTCACC CAACACATTCACC CAACACATTCACC CAACATTCACC CAACACATTCACC CAACACATTCACC CAACACATTCACC CAACACATTCACC CAACATTCACCC CAACATTCACCC CAACATTCACCC CAACATTCACCC CAACATTCACCC CAACATTCACCC CAACATTCACCC CAACATTCACCC CAACATTCACCC CAACATTCACCCC CAACATTCACCCC CAACATTCACCCCCCCC	540 AAGTCAAAACA AAGTCAAAACA AATTCGAA GACAGGAA-CA GACAGGAA-CA GACAGGAA-CA TTTTTTAA TTTTTTAA TTTTTT-AA CCCTCCCAAAA CCCTCCCAAAA CCCTCCCAAAA TAGT TAGT AAGCAACTAG -AAGCAACTAG -AAGCAACTAG CGAGAGAAAGGA	550 TCTTATAAC TCTTATAAC TTTCGACCG CCTTTTGAC CCTTTTGAC GCTAAGAT TTTCTTGGT TTTCTTGGT TTTCTTGGT TTTTATCCG TTTTATCCG TTTTATCCG GGAAACGTT GGAAACGT GGAAACGT AGAAACGT	560 CTGA 51 CTGA 52 TTCG 53 TTCG 53 TTCG 53 TTCG 53 TTCG 53 CGAG 51 CGAG 51 CGAG 51 CGAG 51 CGAG 51 CGAG 52 TTAG 51 TTAG 51 TTAG 51 TTAG 51 TTAG 52 CCGA 40 CCCGT 40 CCCGT 40 CCCGT 40 CCCGT 40	18 5 25 37 37 11 11 11 11 11 11 11 11 11 11 63 20 63 62 20
LOC_OS01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OS01g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_OS06g44010_pW28 H1976995_pW28 T3063501_pW28 LOC_OS05g46020_pW07 H2000561_pW07 T3066720_pW07 H2003518_pW64 T3095730_pW64 LOC_OS12g02450_pW64 LOC_OS01g40260_pW77 T3097007_pW77 H1950043_pW77 LOC_OS09g25070_pW62 H1972014_pW62p	500 TAAAC CTAGTTAAA' TAAAC CTAGTTAAA' TTTTCAGCCAATTAGA' TTACGTACCAGTAGAG' TTACGTACCAGTAGAG' TAATG GCAAATAAA' TAATG GCAAATAAA' ATTTT CTTAACCGG' ATTTT CTTAACCGG' TATGAGCTCCATTCAG' TATGAGCTCCATTCAG' TATGAGCTCCATTCAG' TATGAGCTCCATTCAG' TATGAGCTCCATTCAG' TATGAGCTCCATTCAG' TATGAGCTCCATTCAG' TATGAGCTCCATTCAG' TATGAGCTCCATTCAG' TATATAACAAGGTT' -TTTATAA-AAGAGTT' ATATATAGCAAGGATT'	510 	520 AAGTAGTTC AAGGAACTCA TACGTACTGT TACGTACTGT TACGTACTGT TATAGAACGG TCCTATCTCC TCCTATCTCC TCTGGTATAC TGTGGTATAC TGTGGTATAC TGTGGTATAC TTTTGGGACC TTTTGGGACC TACGCGGACT	530 CALL CALL CALL CALL CALL CALL CALL CALL	540 AAGTCAAAACA AAGTCAAAACA AATTCGAA GACAGGAA-CA GACAGGAA-CA GACAGGAA-CA TTTTTTAA TTTTTTAA TTTTTTAA CCCTCCCAAAA CCCTCCCAAAA CCCTCCCAAAA TAGT TAGT TAGT AAGCAACTAG AAGCAACTAG CAAGCAAAGGA CGAGAGAAAGGA	550 TCTTATAAC TCTTATAAC TTTCGACCG CCTTTTGAC CCTTTTGAC GCTAAGAT GCTAAGAT TTTCTTGGT TTTCTTGGT TTTTATGCG GGAAACGTT GGAAACGTT GGAAACGT AGAAACGT AGAAACGT	560 CTGA 51 CTGA 52 TTCG 53 TTCG 53 TTCG 53 TTCG 53 TTCG 53 TTCG 53 TTCG 53 TTCG 53 TTCG 53 TTCG 51 TTTG 51 TTTA 51 TTTA 51 TTTA 51 TTTA 51 TTTA 51 TTTA 50 CCGA 62 CCGA 62 CCCG 46 CCCGT 46 CCCG 46 CCCG 52 CCA 52 CCC 53 CCC 53 CCC 53 CCA 52 CCA 52 CCC 53 CCC 54 CCC 54 CCCC 54 CCCC 54 CCCC 54 CCCC	18 5 25 37 37 11 11 11 11 63 20 62 20 20
LOC_OS01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OS01g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_OS06g44010_pW28 H1976995_pW28 T3063501_pW28 LOC_OS05g46020_pW07 H2000561_pW07 T3066720_pW07 H20023118_pW64 LOC_OS12g02450_pW64 LOC_OS01g40260_pW77 T3097007_pW77 H1950043_pW77 LOC_OS09g25070_pW62 H1972014_pW62p T3091546_pW62	500 TAAAC CTAGTTAAA' TAAAC CTAGTTAAA' TATCGACCAGTAGAG' TTACGTACCAGTAGAG' TTACGTACCAGTAGAG' TAATG GCAAATAAA' TAATG GCAAATAAA' ATTTT CTTAACCGG' ATTTT CTTAACCGG' AATTT TTTAACCGG' TATGAGCTCCATTCAG' TATGAGCTCCATTCAG' TATGAGCTCCATTCAG' TATGAGCTCCATTCAG' TATGAGCTCCATTCAG' TATGAGCTCCATTCAG' TATGAGCTCCATTCAG' TATATAACAAGGATT' ATATATAGCAAGGATT' ATATATAGCAAGGATT'	510 	520 AAGTAGTTCO AAGTAGTTCO AAGGAACTCA TACGTACTGT TACGTACTGT TATAGAACGO TCCTATCTCC TCCTATCTCC CCCTATCTCC CCCTATCTCC CCCTATCTCC TCTGGGTATAO TCTGGGTATAO TTTTGGGACC GACGCGGAGT GACGCGGAGT GACGCGGAGT	530 CALL CALL CALL CALL CALL CALL CALL CALL	540 AAGTCAAAACA AAGTCAAAACA AATTCGAA GACAGGAA-CA GACAGGAA-CA GACAGGAA-CA TTTTTTAA TTTTTTAA TTTTTTAA CCCTCCCAAAA CCCTCCCAAAA CCCTCCCAAAA CCCTCCCAAAA TAGT TAGT TAGT TAGT TAGT TAGT CCCTCCCAAAA CCCTCCCAAACTAG AAGCAACTAG AAGCAACTAG CGAGAGAAGGA CGAGAGAAGGA	550 TCTTATAAC TCTTATAAC TTTCGACCG CCTTTTGAC CCTTTTGAC CCTTTTGAC GCTAAGAT TTTCTTGGT TTTCTTGGT TTTCTTGGT TTTTATGCG GGAAACGTT GGAAACGT AGAAACGT AGAAACGT AGAAACGT	560 CTGA 51 CTGA 52 TTCG 53 TTCG 53 TTCG 53 TTCG 53 CGAG 51 CGAG 51 CGAG 51 CGAG 51 TTAG 51 TTAG 51 TTAG 51 TTAG 52 CGAG 52 CCA 52 CC	18 525 37 37 11 11 11 11 11 63 20 62 20 99
LOC_OS01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OS01g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_OS06g44010_pW28 H1976995_pW28 T3063501_pW28 LOC_OS05g46020_pW07 H2000561_pW07 T3066720_pW07 H2002318_pW64 LOC_OS12g02450_pW64 LOC_OS12g02450_pW64 LOC_OS12g02450_pW64 LOC_OS01g40260_pW77 T3097007_pW77 H1950043_pW77 LOC_OS09g25070_pW62 H1972014_pW62p T3091546_pW62 LOC_OS05g39720_pW70 H334389_pW70	500 TAAAC CTAGTTAAA' TAAAC CTAGTTAAA' TTTTCAGCCAATTAGA' TTACGTACCAGTAGAG' TTACGTACCAGTAGAG' TTACGTACCAGTAGAG' TAATG GCAAATAAA' TAATG GCAAATAAA' ATTTT CTTAACCGG' ATTTT CTTAACCGG' ATTTT CTTAACCGG' TATGAGCTCCATTCAG' TATGAGCTCCATTCAG' TATGAGCTCCATTCAG' TATGAGCTCCATTCAG' TATGAGCTCCATTCAG' TATGAGCTCCATTCAG' TATATAACAAGAGTT' ATATATAGCAAGGATT' ATATATAGCAAGGATT' ATATATAGCAAGGATT' GTATGCAATGTCCATT	510 	520 AAGTAGTTCO AAGTAGTTCO AAGGAACTCA TACGTACTGT TACGTACTGT TATAGAACGO TATAGAACGO TCCTATCTCC TCCTATCTCC TCTGGGTATAO TGTGGTATAO TTTTGGGACO TTTTGGGACO TTTTGGGACO TTTTGGGACO TACGCGGAGT GACACGCGACT GACACGCGACT GACACGCGACT	530 CALL CALL CALL CALL CALL CALL CALL CALL	540 AAGTCAAAACA AAGTCAAAACA AATTCGAA GACAGGAA-CA GACAGGAA-CA GACAGGAA-CA TTTTTTAA TTTTTTAA TTTTTTAA CCCTCCCAAAA CCCTCCCAAAA CCCTCCCAAAA CCCTCCCAAAA CCCTCCCAAAA TAGT TAGT TAGT TAGT AAGCAACTAG AAGCAACTAG CAGAGAAGGA CGAGAGAAGGA CGAGAGAAGGA CCTAAAAATTA	550 TCTTATAAC TCTTATAAC TTTCGACCG CCTTTTGAC CCTTTTGAC CCTTTTGAC GCTAAGAT TTTCTTGGT TTTCTTGGT TTTTATGCG GGAAACGTT GGAAACGTT GGAAACGT AGAAACGT AGAAACGT AGAAACGT AGAAACGT AGAAACGT CTCTATGT CTCTATGT	560 CTGA 51 CTGA 52 TTCG 53 TTCG 53 TTCG 53 CGGA 51 CGGA 51 TTAG 51 TTAG 51 TTAG 51 TTAG 51 TTAG 52 TTAG 52 TCAC 23 TCAC 23 CCCT 46 CCCT 46	18 525 37 37 11 11 11 11 63 29 66 20 20 99 99
LOC_OS01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OS01g53260_pW23 H1961965_pW23 LOC_OS06g44010_pW28 H1976995_pW28 T3063501_pW28 LOC_OS05g46020_pW07 H200561_pW07 T3066720_pW07 H2003518_pW64 LOC_OS12g02450_pW64 LOC_OS12g02450_pW64 LOC_OS01g40260_pW77 T3097007_pW77 H1950043_pW77 LOC_OS09g25070_pW62 H1972014_pW62p T3091546_pW62 LOC_OS05g39720_pW70 H334389_pW70	500 TAAAC CTAGTTAAA' TAAAC CTAGTTAAA' TTTTCAGCCAATTAGA' TTACGTACCAGTAGAG' TTACGTACCAGTAGAG' TTACGTACCAGTAGAG' TAATG GCAAATAAA' TAATG GCAAATAAA' ATTTT CTTAACCGG' ATTTT CTTAACCGG' TATGAGCTCCATTCAG' TATGAGCTCCATTCAG' TATGAGCTCCATTCAG' TATGAGCTCCATTCAG' TATGAGCTCCATTCAG' TATATAAAAAGAGTT' -TTTATAA-AAGAGTT' ATATATAGCAAGGATT' ATATATAGCAAGGATT' GTATGCAATGTCCATT	510 	520 AAGTAGTTCO AAGTAGTTCO AAGGAACTCA TACGTACTGT TACGTACTGT TATAGAACGO TCCTATCTCC TCCTATCTCC TCTGGTATAC TGTGGTATAC TTTGGGACO TTTGGGACO TTTGGGACO TTTGGGACO AATAACTCAO AATAACTCAO	530 CALL CALL CALL CALL CALL CALL CALL CALL	540 AAGTCAAAACA AAGTCAAAACA AATTCGAA GACAGGAA-CA GACAGGAA-CA GACAGGAA-CA TTTTTTAA TTTTTTAA TTTTTTAA CCCTCCCAAAA CCCTCCCAAAA CCCTCCCAAAA CCCTCCCAAAA CCCTCCCAAAA CCCTCCCAAAA CCCAGAGAAGGA CGAGAGAAGGA CGAGAGAAGGA CCTAAAAATTA CCTAAAAATTA	550 TCTTATAAC TCTTATAAC TTTCGACCG CCTTTTGAC CCTTTTGAC CCTTTTGAC GCTAAGAT TTTCTTGGT TTTCTTGGT TTTTATGCG GGAAACGTT GGAAACGTT GGAAACGT AGAAACGT AGAAACGT AGAAACGT CTCTATGT CTCTATGT	560 CTGA 51 CTGA 52 CTGA 52 CTGA 53 CTGA 53 CTGA 51 CGGA 51 CGGA 51 CGGA 51 CTTA 51 TTA 51 TTA 51 TTA 51 TTA 51 CCCA 22 CCCA 46 CCCA 52 CCCA 52 CCCA 52 CCCA 52 CCCA 52 TGTG 49 TGTG 49 TGTG 49	18 5 25 37 37 11 11 11 11 63 20 62 20 99 99 99
LOC_OSO1g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OSO1g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_OSO6g44010_pW28 H1976995_pW28 T3063501_pW28 LOC_OSO5g46020_pW07 H200561_pW07 T3066720_pW07 H2023318_pW64 LOC_OS12g02450_pW64 LOC_OS12g02450_pW64 LOC_OS01g40260_pW77 T3097007_pW77 H1950043_pW77 LOC_OS09g25070_pW62 H1972014_pW62p T3091546_pW62 LOC_OS05g39720_pW70 H334389_pW70 T3094952_pW70 LOC_OS05g45230_pW58	500 TAAAC CTAGTTAAA' TAAAC CTAGTTAAA' TTTTCAGCCAATTAGA' TTACGTACCAGTAGAG' TTACGTACCAGTAGAG' TTACGTACCAGTAGAG' TAATG GCAAATAAA' TAATG GCAAATAAA' ATTTT CTTAACCGG' ATTTT CTTAACCGG' ATTTAGAGCTCCATTCAG TATGAGCTCCATTCAG TATGAGCTCCATTCAG TATGAGCTCCATTCAG TATATATAA-AAGAGTT' -TTTATAA-AAGAGTT' ATATATAGCAAGGATT' ATATATAGCAAGGATT' GTATGCAATGTCCATT GTATGCAATGTCCATT' GTATGCAATGTCCATT' GTATGCAATGTCCATT'	510 	520 AAGTAGTTCO AAGTAGTTCO AAGGAACTCA TACGTACTGT TACGTACTGT TATAGAACGO TATAGAACGO TCCTATCTCC TCTGTGTATACCC TCTGGGATAG TTTTGGGACG TTTTGGGACG TTTTGGGACG TTTTGGGACGAGT TATAACTCAG AATAACTCAG	530 CALL CALL CALL CALL CALL CALL CALL CALL	540 AAGTCAAAACA AAGTCAAAACA AATTCGAA GACAGGAA-CA GACAGGAA-CA TTTTTTAA TTTTTTAA TTTTTTAA TTTTTTAA CCCTCCCAAAA CCCTCCCAAAA CCCTCCCAAAA CCCTCCCAAAA CCCTCCCAAAA CCCTCCCAAAA CAGCAACTAG AAGCAACTAG AAGCAACTAG CGAGAGAAGGA CGAGAGAAGGA CCTAAAAATTA CCTAAAAATTA CCAACAAACCT	550 TCTTATAAC TCTTATAAC TTTCGACCG CCTTTTGAC CCTTTTGAC CCTTTTGAC CCTTTTGAC GCTAAGGAT GCTAAGGAT TTTCTTGGT TTTCTTGGT TTTTATGCG TTTTATGCG GGAAACGTT GGAAACGT GGAAACGT GGAAACGT GGAAACGT CCTCTATGT CCTCTATGT CCTCTATGT CCCTGAAC	560 CTGA 51 CTGA 52 TTCG 53 TTCG 54 TTCG 54	18 5 25 377 318 110 111 113 309 362 200 999 90 10
LOC_OSO1g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OSO1g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_OSO6g44010_pW28 H1976995_pW28 T3063501_pW28 LOC_OS05g46020_pW07 H2000561_pW07 T3066720_pW07 H2023318_pW64 LOC_OS12g02450_pW64 LOC_OS12g02450_pW64 LOC_OS01g40260_pW77 T3097007_pW77 H1950043_pW77 LOC_OS09g25070_pW62 H1972014_pW62p T3091546_pW62 LOC_OS05g39720_pW70 H334389_pW70 T3094952_pW70 LOC_OS05g45230_pW58 H1850565_pW58p T3075919_pW52	500 TAAAC CTAGTTAAA' TAAAC CTAGTTAAA' TTTTCAGCCAATTAGA' TTACGTACCAGTAGAG' TTACGTACCAGTAGAG' TTACGTACCAGTAGAG' TAATG GCAAATAAA' TAATG GCAAATAAA' ATTTT CTTAACCGG' AATTT CTTAACCGG' TATGAGCTCCATCAGG' TATGAGCTCCATTCAGG' TATGAGCTCCATTCAGG' TATGAGCTCCATTCAGG' TATGAGCTCCATTCAGG' TATATAAAAAGAGTT' ATATATAGCAAGGATT' ATATATAGCAAGGATT' GTATGCAATGTCCGT' CTATACTACAACGATT' CTATACTACAACGATT'	510 	520 AAGTAGTTC AAGTAGTTC AAGGAACTCA TACGTACTGT TACGTACTGT TACGTACTGT TATAGAACGG TATAGAACGG TCCTATCTCC TCTGTGTATAC TCTGGGATAAC TTTTGGGACC TTTTGGGACC TTTTGGGACG TTTTGGGACGACT AATAACTCAC AATAACTCAC AATAACTCAC	530 CALL CALL CALL CALL CALL CALL CALL CALL	540 AAGTCAAAACA AAGTCAAAACA AATTCGAA GACAGGAA-CA GACAGGAA-CA GACAGGAA-CA TTTTTTAA TTTTTTAA TTTTTTAA TTTTTTAA CCCTCCCAAAA CCCTCCCAAAA CCCTCCCAAAA CCCTCCCAAAA CCCTCCCAAAA CCCTCCCAAAA CCCTCCCAAAA CCCTCCCAAAA CCCACAACTAG AAGCAACTAG CGAGAGAAGGA CCTAAAAATTA CCTAAAAATTA CCGAACAAACCT CGAACAAACCT	550 TCTTATAAC TCTTATAAC TTTCGACCG CCTTTTGAC CCTTTTGAC CCTTTTGAC GCTAAGGAT GCTAAGGAT TTTCTTGGT TTTCTTGGT TTTTATGCG GGAAACGTT GGAAACGT GGAAACGT GGAAACGT AGAAACGT CTCTATGT CCTCTATGT CCCTGAAC GCCTGAAC	560 CTGA 51 CTGA 52 TTCG 53 TTCG 54 TTCG 54	18 525 377 111 111 111 632 93 662 200 99 99 90 10 98
LOC_OSO1g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OSO1g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_OSO6g44010_pW28 H1976995_pW28 T3063501_pW28 LOC_OSO5g46020_pW07 H2000561_pW07 T3066720_pW07 H202318_pW64 LOC_OS12g02450_pW64 LOC_OS12g02450_pW64 LOC_OS01g40260_pW77 T3097007_pW77 H1950043_pW77 LOC_OS09g25070_pW62 H1972014_pW62p T3091546_pW62 LOC_OS05g39720_pW70 H334389_pW70 T3094952_pW70 LOC_OS05g45230_pW58 H1850565_pW58p T3075919_pW58 LOC_OS03q21710_bW79	500 TAAAC CTAGTTAAA' TAAAC CTAGTTAAA' TTTTCAGCCAATTAGA' TTACGTACCAGTAGAG' TTACGTACCAGTAGAG' TTACGTACCAGTAGAG' TAATG GCAAATAAA' TAATG GCAAATAAA' TAATG GCAAATAAA' ATTTT CTTAACCGG' AATTT CTTAACCGG' TATGAGCTCCATCAGG' TATGAGCTCCATCAGG' TATGAGCTCCATTCAGG' TATGAGCTCCATTCAGG' TATGAGCTCCATTCAGG' TATATAAAAAGAGTT' ATATATAGCAAGGATT' ATATATAGCAAGGATT' GTATGCAATGTCCATT GTATGCAATGTCCATT' GTATGCAATGTCCATT' GTATGCAATGTCCGTT' CTATACTACAACGATT'	510 	520 AAGTAGTTC AAGTAGTTC AAGGAACTCA TACGTACTGT TACGTACTGT TACGTACTGT TATAGAACGG TATAGAACGG TATAGAACGG TCTATCTCC CCTATCTCC CCTATCTCC TGTGGTATAG TTTTGGACG TTTTGGACGC TTTTGGACGC TTTTGGCACG TTTTGGCACG TTTTGGCACG TTTTGCGACG TATACCCAC AATAACTCAC AATAACTCAC AATAACTCAC CACTACTCCC CACGTATCTCCC CACGTATCTCCC	530 CALL CALL CALL CALL CALL CALL CALL CALL	540 AAGTCAAAACA AAGTCAAAACA AATTCGAA GACAGGAA-CA GACAGGAA-CA GACAGGAA-CA TTTTTTAA TTTTTTAA TTTTTAA CCCTCCCAAAA CCCTCCCAAAA CCCTCCCAAAA CCCTCCCAAAA CCCTCCCAAAA CAGCAACTAG -AAGCAACTAG -AAGCAACTAG CGAGAGAAGGA CGAGAGAAGGA CCTAAAAATTA CCTAAAAATTA CCTAAAAATTA CCGAACAAACCT CGAACAAACCT	550 TCTTATAAC TCTTATAAC TTTCGACCG CCTTTTGAC CCTTTTGAC CCTTTTGAC GCTAAGAT GCTAAGAT TTTCTTGGT TTTCTTGGT TTTTATGCG TTTTATGCG GGAAACGTT GGAAACGT GGAAACGT AGAAACGT AGAAACGT CTCTATGT CTCTATGT CCTCTATGT CCCTGAAC GCCTGAAC GCCTGAAC GCCTGAAC	560 CTGA 51 CTGA 52 TTCG 53 TTCG 51 TTCG 51 TTTG 51 TTTG 51 TTTG 51 TTTG 51 TTTG 52 TCCC 54 CCGA 52 CCGT 46 CCGT 46 CCGT 46 CCGT 45 CCCA 52 CCCA 52	18 25 37 37 11 11 11 11 11 32 93 66 22 20 99 99 01 08 5
LOC_OSO1g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OSO1g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_OSO6g44010_pW28 LOC_OSO6g44010_pW28 LOC_OSO5g46020_pW07 H2000561_pW07 T3066720_pW07 H202318_pW64 T3095730_pW64 LOC_OS01g40260_pW77 T3097007_pW77 H1950043_pW77 LOC_OS09g25070_pW62 H1972014_pW62p T3091546_pW62 LOC_OS05g39720_pW70 H334389_pW70 T3094952_pW70 LOC_OS05g45230_pW58 H1850565_pW58p T3075919_pW58 LOC_OS03g21710_pW79 H1952278_pW79	500 TAAAC CTAGTTAAA' TAAAC CTAGTTAAA' TTTTCAGCCAATTAGA' TTACGTACCAGTAGAG' TTACGTACCAGTAGAG' TTACGTACCAGTAGAG' TAAGG GCAAATAAA' TAATG GCAAATAAA' TATTT CTTAACCGG' AATTT CTTAACCGG' TATGAGCTCCATTCAGG' TATGAGCTCCATTCAGG' TATGAGCTCCATTCAGG' TATGAGCTCCATTCAGG' TATATAAGCAAGGATT' ATATATAGCAAGGATT' GTATGCAATGTCCATT' GTATGCAATGTCCATT' GTATGCAATGTCCATT' CTATACTACAACGATT' CTATACTACAACGATT'	510 	520 AAGTAGTTC AAGTAGTTC AAGGAACTCA TACGTACTGT TACGTACTGT TACGTACTGT TATAGAACGG TATAGAACGG TATAGAACGG TCTATCTCC CCCTATCTCC CCCTATCTCC TGTGGTATAC TTTTGGGACG TTTTGGGACG TTTTGGGACG TTTTGGGACG TTTTGGGACG TTTTGGGACG TATACTCA AATAACTCA AATAACTCA GATATCTCTC CACGTAATCT CACGTAATCT	530 	540 AAGTCAAAACA AAGTCAAAACA AATTCGAA GACAGGAA-CA GACAGGAA-CA GACAGGAA-CA TTTTTTAA TTTTTTAA TTTTTTAA CCCTCCCAAAA CCCTCCCAAAA CCCTCCCAAAA CCCTCCCAAAA CCCTCCCAAAA CCCTCCCAAAA CCCTCCCAAAA CAGCAACTAG -AAGCAACTAG CAAGCAACTAG CGAGAGAAGGA CCTAAAAATTA CCTAAAAATTA CCTAAAAATTA CCGAACAAACCT CGAACAAACCT CGAACAAACCT	550 TCTTATAAC TCTTATAAC TTTCGACCG CCTTTTGAC CCTTTTGAC CCTTTTGAC GCTAAGGAT GCTAAGGAT TTTCTTGGT TTTTATGCG TTTTATGCG GGAAACGTT GGAAACGTT GGAAACGT AGAAACGT AGAACGT CTCTATGT CCTCTATGT CCCTGAAC GCCTGAAC GCCTGAAC GCCTGAAC	560 CTGA 51 CTGA 52 TTCG 53 TTCG 53 TTCG 53 TTCG 53 TTCG 53 TTCG 53 TTCG 53 TTCG 53 TTCG 53 TTCG 51 TTCG 51 TTAG 51 TTAG 51 TTAG 51 TTAG 51 TTAG 51 TTAG 52 TCAC 26 CCGA 46 CCGT 46 CCGT 46 CCGT 46 CCGT 45 CCCA 52 CCCA 52	18 25737 3711 1111 11329 66220 99990 10855
LOC_OSO1g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OSO1g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_OSO6g44010_pW28 H1976995_pW28 T3063501_pW28 LOC_OS05g46020_pW07 H2000561_pW07 T3066720_pW07 H202318_pW64 LOC_OS12g02450_pW64 LOC_OS12g02450_pW64 LOC_OS01g40260_pW77 T309707_pW77 H1950043_pW77 LOC_OS09g25070_pW62 H1972014_pW62p T3091546_pW62 LOC_OS05g39720_pW70 H334389_pW70 T3094952_pW70 LOC_OS05g45230_pW58 H1850565_pW58p T3075919_pW58 LOC_OS03g21710_pW79 H1952278_pW79 T3070072_pW79	500 TAAAC CTAGTTAAA' TAAAC CTAGTTAAA' TTTTCAGCCAATTAGA' TTACGTACCAGTAGAG' TTACGTACCAGTAGAG' TTACGTACCAGTAGAG' TAAGG GCAAATAAA' TAATG GCAAATAAA' TAATG GCAAATAAA' TAATG GCAAATAAA' TAATG GCAAATAAA' TAATG GCAAATAAA' TAATG GCAAATAAA' TAATG GCAAATAAA' TAATG GCAAATAAA' TAATG GCAAATAAA' TATTT CTTAACCGG' AATTT CTTAACCGG' TATGAGCTCCATTCAG' TATGAGCTCCATTCAG' TATGAGCTCCATTCAG' TATGAGCTCCATTCAG' TATGAGCTCCATTCAG' TATATAAGCAAGAGTT' ATATATAGCAAGGATT' GTATGCAATGTCCATT' GTATGCAATGTCCATT' GTATGCAATGTCCATT' CTATACTACAACGATT' CTATACTACAACGATT' CTATGAAAACTGCAC'	510 I - T - TGJ IGGTT - TAJ IGGTT - TAJ IGGTTGTACGTAT IGACTTGTAAT IGACTTGTAAT IGACTTGTAAT IGACTTGTAAT ITCTTGACTAT ITCTTGACTAT ITCTTGACTAT ITCTTGGCTAG IGTCTTTTTTT IGTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	520 AAGTAGTTC AAGTAGTTC AAGGAACTCA TACGTACTGT TACGTACTGT TACGTACTGT TATAGAACGG TATAGAACGG TATAGAACGG TATAGAACGG TATAGAACGG TATAGAACGG TATAGAACGG TATTGGAACG TTTTGGGACG TTTTGGGACG TTTTGGGACG TTTTGGGACG TTTTGGGACG TTTTGGGACG TTTTGGACGGACT SACGCGGACT SACACGGACT SATATCTCCC CACGTAATCT CACGTAATCT	530 	540 AAGTCAAAACA AAGTCAAAACA AATTCCAAAACA AATTCCAAAACA GACAGGAA-CA GACAGGAA-CA GACAGGAA-CA TTTTTTTAA TTTTTTAA TTTTTT-AA CCCTCCCAAAA CCCTCCCAAAA CCCTCCCAAAA CCCTCCCAAAA CCCTCCCAAAA CCCTCCCAAAA CCCTCCCAAAA TAGT AAGCAACTAG AAGCAACTAG CAGAGAAAACTA CGAGAGAAAGGA CCTAAAAATTA CGAACAAACCT CGAACAAACCT CGAACAAACCT GTGTGTGCCCAA	550 TCTTATAAC TCTTATAAC TTTCGACCG CCTTTTGAC CCTTTTGAC CCTTTTGAC GCTAAGGAT GCTAAGGAT GCTAAGGAT TTTCTTGGT TTTTATGCG TTTTATGCG GGAAACGTT GGAAACGTT GGAAACGT AGAAACGT CTCTATGT CCTCTATGT CCCTGAAC GCCTGAAC GCCTGAAC GTAAGCGAG GTAAGCGAG	560 CTGA 51 CTGA 52 TTCG 53 TTCG 53 TTCG 53 TTCG 53 TTCG 53 CGGAG 51 CGGAG 51 CGGAG 51 TTAG 51 TTAG 51 TTAG 51 TTAG 51 TTAG 52 CGCA 40 CCGT 40 CCGA 52 CCA	18 52577318 11011111632093622009999010 915551
LOC_OSO1g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OSO1g53260_pW23 H1961965_pW23 LOC_OSO6g44010_pW28 H1976995_pW28 T3063501_pW28 LOC_OSO5g46020_pW07 H2000561_pW07 T3066720_pW07 H202318_pW64 LOC_OS12g02450_pW64 LOC_OS12g02450_pW64 LOC_OS01g40260_pW77 T309707_pW77 H1950043_pW77 LOC_OS05g39720_pW62 H1972014_pW62p T3091546_pW62 LOC_OS05g39720_pW70 H334389_pW70 T3094952_pW70 LOC_OS05g45230_pW58 H1850565_pW58p T3075919_pW58 LOC_OS03g21710_pW79 H1952278_pW79 T3070072_pW79 LOC_OS05g49620_pW19 H2014700_pW19	500 TAAAC CTAGTTAAA' TAAAC CTAGTTAAA' TTTTCAGCCAATTAGA' TTACGTACCAGTAGAG' TTACGTACCAGTAGAG' TTACGTACCAGTAGAG' TAATG GCAAATAAA' TAATG GCAAATAAA' TAATTA CTTAACCGG' TATGAGTCCATTCAGG' TATGAGCTCCATTCAGG' TATGAGCTCCATTCAGG' TATGAAAGGATT' GTATGCAATGTCCATT' GTATGCAATGTCCATT' GTATGCAATGTCCGATT' CTATACTACAACGATT' CTGATTGAAAACTGCA' CTGATTGAAAAACTGCA'	510 I T TGJ IGGTT TAJ IGGTT TAJ IGGTTGTACGTAT IGACTTGTAAT IGACTTGTAAT IGACTTGTAAT ITCTTGACTAAT ITCTTGACTAAT ITCTTGACTAAT ITCTTGACTAAT ITCTTGGCTAAT ITCTTGGCTAAT IGTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	520 AAGTAGTTTC AAGTAGTTTC AAGGAACTCA TACGTACTGT TACGTACTGT TATAGAACGG TATAGAACGG TATAGAACGG TATAGAACGG TATAGAACGG TATAGAACGG TATAGAACGG TATTGGAAC TTTTGGGACG TTTTGGGACG TTTTGGGACG TTTTGGGACG TTTTGGGACGACT AATAACTCAG AATAACTCAG AATAACTCAG AATAACTCAG AATAACTCAG AATAACTCAG AATAACTCAG AATAACTCAG	530 	540 AAGTCAAAACA AAGTCAAAACA AATTCCAAA GACAGGAA-CA GACAGGAA-CA GACAGGAA-CA GACAGGAA-CA TTTTTTAA TTTTTTAA TTTTTT-AA CCCTCCCAAAA CCCCCCCAAAA CCCCCCCAAAA CCCCCCCAAAA CCCCCCCAAAA CCCCCCCAAAA CCCCCCAAAA CCCACAACTAG CAAGCAACTAG CAGAGAAAGGA CGAGAGAAGGA CGAGAGAAGGA CCTAAAAATTA CGAACAAACCT GGACAAACCT GGACAAACCT GGACGAACCAA CGACAAACCT GGACAAACCT GGACGAACCAA	550 TCTTATAAC TCTTATAAC TTTCGACCG CCTTTTGAC CCTTTTGAC CCTTTTGAC GCTAAGGAT GCTAAGGAT GCTAAGGAT TTTCTTGGT TTTTATGCG TTTTATGCG GGAAACGTT GGAAACGTT GGAAACGTT AGAAACGT CTCTATGT- CTCTATGT- CTCTATGT- CTCTATGT- GGCTGAAC- GCCTGAAC- GCCTGAAC- GTAAGCGAG GTAACGGGG	560 CTGA 51 CTGA 52 TTCG 53 TTCG 53 TTCG 53 TTCG 53 CGGAG 51 CGGAG 51 CGGAG 51 TTAG 51 TTAG 51 TTAG 51 TTAG 51 TTAG 51 TTAG 52 CGCA 40 CCGT 40 CCGA 52 CCA	18 52577318 11011111632093622009999010855155005
LOC_OSO1g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OSO1g53260_pW23 H1961965_pW23 LOC_OSO6g44010_pW28 H1976995_pW28 T3063501_pW28 LOC_OSO5g46020_pW07 H2000561_pW07 H2000561_pW07 H202318_pW64 T3095730_pW64 LOC_OS12g02450_pW64 LOC_OS12g02450_pW64 LOC_OS12g02450_pW64 LOC_OS01g40260_pW77 T309707_pW77 H1950043_pW77 LOC_OS05g39720_pW62 H1972014_pW62p T3091546_pW62 LOC_OS05g39720_pW70 H334389_pW70 T3094952_pW70 LOC_OS05g45230_pW58 H1850565_pW58p T3075919_pW58 LOC_OS03g21710_pW79 H1952278_pW79 T307072_pW79 LOC_OS05g49620_pW19 H2014700_pW19	500 TAAAC CTAGTTAAA' TAAAC CTAGTTAAA' TTTTCAGCCAATTAGA' TTACGTACCAGTAGAG' TTACGTACCAGTAGAG' TTACGTACCAGTAGAG' TAATG GCAAATAAA' TAATG GCAAATAAA' TATTT CTTAACCGG' AATTT CTTAACCGG' TATGAGCTCCATTCAG' TATGAGCTCCATTCAG' TATGAGCTCCATTCAG' TATGAGCTCCATTCAG' TATGAAGCTCCATTCAG' TATATAAGCAAGGATT' ATATATAGCAAGGATT' GTATGCAATGTCCATT GTATGCAATGTCCATT' GTATGCAATGTCCATT' CTATGTAACAACGATT' CTGATTGAAAACTGCAG' CTGATTGAAAACTGCAG' TTAGTTTGAAAAACGCAG'	510 	520 AAGTAGTTC AAGTAGTTC AAGTAGTTC AAGGAACTCA TACGTACTGT TACGTACTGT TATAGAACGG TATAGAACGG TCCTATCTCC TCCTATCTCC TCCTATCTCC TGTGGTATAC TCTGGGATAC TTTTGGGACG TTTTGGGACG SACGCGGAGT SACACGGAGA AATAACTCAG SATATCTCTC CACGTAATCT CACGTAATCT CACGTAATCT CACGTAATCT	530 	540 AAGTCAAAACA AAGTCAAAACA AATTCCAA GACAGGAA-CA GACAGGAA-CA GACAGGAA-CA TTTTTTAA TTTTTTAA TTTTTTAA CCCTCCCAAAA CCCTCCCAAAA CCCTCCCAAAA CCCTCCCAAAA CCCTCCCAAAA CCCTCCCAAAA CCCTCCCAAAA CCCACAACTAG AAGCAACTAG CAGAGAACAAG CGAGAGAAAGGA CGAGAGAAAGCA CGAGAGAAACCT CGAACAAACCT CGAACAAACCT CGAACAAACCT CGAACAAACCT CGAACAAACCT CGACAAAACCT CGACAAACCT	550 TCTTATAAC TCTTATAAC TTTCGACCG CCTTTTGAC CCTTTTGAC CCTTTTGAC CCTTTTGAC GCTAAGGAT GCTAAGGAT TTTCTTGGT TTTCTTGGT TTTTATGCG TTTTATGCG GGAAACGTT GGAAACGTT AGAAACGT- AGAAACGT- AGAAACGT- CTCTATGT- CTCTATGT- CCCTGAAC- GCCTGAAC- GCCTGAAC- GTAAGCGAG GTAACGGGG GAACGGGGC GAACGGGGC GAACGGGGC GAACGGGGC	560 CTGA 51 CTGA 52 TTGG 53 TTGG 53 TTGG 53 TTGG 53 CGGAG 51 TTAG 51 TTAG 51 TTAG 51 TTAG 51 TTAG 51 TTAG 51 TTAG 51 TTAG 52 CGCA 52 CCCA 52 CCCA 52 CCCA 52 CCCA 52 CCCA 51 TGTG 49 TGTG 49 TGTG 49 TGTG 49 TGTG 49 TGTG 51 TGTG 51 TGTG 52 CCCA 52 CCCA 51 TGTG 51 TGTG 52 CCCA 52 CCCA 52 CCCA 52 CCCA 52 CCCA 51 TGTG 51 TGTG 50 CCCA 52 CCCA 52 CCCA 52 CCCA 51 TGTG 51 TGTG 52 CCCA 52 CCCA 52 CCCA 51 TGTG 52 CCCA 51 TGTG 52 CCCA 5	18 5257377 3181101111163209366220099990108551560500
LOC_OSO1g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OSO1g53260_pW23 H1961965_pW23 LOC_OSO6g44010_pW28 H1976995_pW28 T3063501_pW28 LOC_OSO5g46020_pW07 H2000561_pW07 T3066720_pW07 H202318_pW64 T3095730_pW64 LOC_OS12g02450_pW64 LOC_OS12g02450_pW64 LOC_OS01g40260_pW77 T3097007_pW77 H1950043_pW77 LOC_OS09g25070_pW62 H1972014_pW62p T3091546_pW62 LOC_OS05g39720_pW70 H334389_pW70 T3094952_pW70 LOC_OS05g45230_pW58 H1850565_pW58p T3075919_pW58 LOC_OS03g21710_pW79 H1952278_pW79 T307072_pW79 LOC_OS05g49620_pW19 H2014700_pW19 T3058779_pW19 LOC_OS05g25060_pW76	500 TAAAC CTAGTTAAA' TAAAC CTAGTTAAA' TTTTCAGCCAATTAGA' TTACGTACCAGTAGAG' TTACGTACCAGTAGAG' TTACGTACCAGTAGAG' TAATG GCAAATAAA' TAATG GCAAATAAA' TATTT CTTAACCGG' TATGAGCTCCATTCAGG' TATGAGCTCCATTCAGG' TATGAGCTCCATTCAGG' TATGAGCTCCATTCAGG' TATGAGCTCCATTCAGG' TATATAAGCAAGGATT' ATATATAGCAAGGATT' GTATGCAATGTCCATT' GTATGCAATGTCCATT' GTATGCAATGTCCATT' CTATACTACAACGATT' CTATACTACAACGATT' CTATACTACAACGATT' CTGATTGAAAACTGCAG' TTAGTTGAAAACTGCAG' TTAGTTGAAAACTGCAG' TTAGTTGAAAACTGCAG' TTAGTTGAAAACTGCAG'	510 	520 AAGTAGTTC AAGTAGTTC AAGGAACTCA TACGTACTGT TACGTACTGT TACGTACTGT TATAGAACGG TCTTATCTCC TCCTATCTCC TCTGGTATAC TGTGGTATAC TGTGGTATAC TGTGGTATAC TTTTGGGACG TTTTGGGACG GACGCGGAGT GACACGGAGT GATACTCAC GATATCTCC CACGTAATCT CACGTAATCT CACGTAATCT CACGTAATCT	530 	540 AAGTCAAAACA AAGTCAAAACA AATTCGAA GACAGGAA-CA GACAGGAA-CA GACAGGAA-CA TTTTTTAA TTTTTTAA CCCTCCCAAAA CCCTCCCAAAA CCCTCCCAAAA CCCTCCCAAAA CCCTCCCAAAA CCCTCCCAAAA CCCTCCCAAAA CCCACAACTAG AAGCAACTAG CAAGCAACTAG CAAGCAACTAG CGAGAGAAAGGA CGAGAGAAAGGA CCTAAAAATTA CCTAAAAATTA CCTAAAAATTA CCTAAAAATTA CCTAAAAATTA CCTAAAAATTA CCTAAAAATTA CCTAACAAACCT CGACAAACCT CGACAAACCT	550 TCTTATAAC TCTTATAAC TCTTATAAC TTTCGACCG CCTTTTGAC CCTTTTGAC CCTTTTGAC GCTAAGAT TTTCTTGGT TTTCTTGGT TTTTATCCG TTTTATCCG GGAAACGTT GGAAACGTT AGAAACGT AGAAACGT AGAAACGT GCTCAAC GCCTGAAC- GCCTGAC- GCCTGAC- GCCTGAC- GCCTGAAC- GCCTGAC- GCCCGAC- GCCCGAC- GCCCGAC- GCCCGAC- GCCCGAC- GCCCGAC- GCCCGAC- GCCCGCAC- GCCCGCAC- GCCCGCAC- GCCCGCAC- GCCCCGCAC- GCCCCGCAC- GCCCCGCAC- GCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	560 CTGA 51 CTGA 52 TTCG 53 TTCG 51 TTTG 51 TTTG 51 TTTG 51 TTTG 51 TTTG 52 CCGA 52 C	18 525773318 11011111632936622009999001985155000000
LOC_OSO1g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OSO1g53260_pW23 H1961965_pW23 LOC_OSO6g44010_pW28 H1976995_pW28 T3063501_pW28 LOC_OSO5g46020_pW07 H2000561_pW07 T3066720_pW07 H202318_pW64 T3095730_pW64 LOC_OS12g02450_pW64 LOC_OS12g02450_pW64 LOC_OS01g40260_pW77 T3097007_pW77 H1950043_pW77 LOC_OS09g25070_pW62 H1972014_pW62p T3091546_pW62 LOC_OS05g39720_pW70 H334389_pW70 T3094952_pW70 T3094952_pW70 T3094952_pW70 LOC_OS05g45230_pW58 H1850565_pW58p T3075919_pW58 LOC_OS03g21710_pW79 H1952278_pW79 T307072_pW79 LOC_OS05g49620_pW19 H2014700_pW19 T3058779_pW19 LOC_OS05g25060_pW76 T3076120_pW76	500 TAAAC CTAGTTAAA' TAAAC CTAGTTAAA' TTACGTACCAGTAGAG' TTACGTACCAGTAGAG' TTACGTACCAGTAGAG' TTACGTACCAGTAGAG' TAATG GCAAATAAA' TAATG GCAAATAAA' ATTT CTTAACCGG' ATTTT CTTAACCGG' ATTTT CTTAACCGG' TATGAGCTCCATTCAG' TATGAGCTCCATTCAG' TATGAGCTCCATTCAG' TATGAGCTCCATTCAG' TATGAGCTCCATTCAG' TATATATAGCAAGGATT' ATATATAGCAAGGATT' GTATGCAATGTCCATT' GTATGCAATGTCCATT' GTATGCAATGTCCATT' GTATGCAATGTCCATT' GTATGCAATGTCCATT' GTATGCAATGTCCATT' GTATGCAATGTCCATT' GTATGCAATGTCCATT' CTATACTACAACGATT' CTATACTACAACGATT' CTATACTACAAACGATT' CTATACTACAAACGATT' CTATACTACAAACGATT' CTATACTACAAACGATT' CTATACTACAAACGATT' CTATACTACAAACGATT' CTATACTACAAACGATT' CTATACTACAAACGATT' CTATACTACAAACGATC' CTATACTACAAACGATT' CTATACTACAAACGATT'	510 	520 AAGTAGTTC AAGTAGTTC AAGGAACTCA TACGTACTGT TACGTACTGT TACGTACTGT TATAGAACGG TCTATCTCC TCTATCTCC TCTATCTCC TCTGGTATAC TGTGGTATAC TTTGGGACG TTTTGGGACG TTTTGGGACG SACGCGGAGT SACACGGAGA AATAACTCAC SATATCTCTC CACGTAATCT CACGTACTCT CACGTACTCT CACGTACTCT CACGTCCC CATCTCTCC	530 	540 AAGTCAAAACA AAGTCAAAACA AATTCGAA GACAGGAA-CA GACAGGAA-CA GACAGGAA-CA TTTTTTAA TTTTTTAA CCCTCCCAAAA CCCTCCCAAAA CCCTCCCAAAA CCCTCCCAAAA CCCTCCCAAAA CCCTCCCAAAA CCCTCCCAAAA CCCTCCCAAAA CCCACAACTAG AAGCAACTAG CAAGCAACTAG CAAGCAACTAG CAGAGAAAGGA CGAGAGAAAGGA CCTAAAAATTA CCTAAAAATTA CCTAAAAATTA CCTAAAAATTA CCGACAAACCT CGACAAACCT CGACAAACCT CGACAAACCT GTGTGTGCCAA TATTAATTATTA TAATTAATTA	550 TCTTATAAC TCTTATAAC TCTTATAAC TTTCGACCG CCTTTTGAC CCTTTTGAC CCTTTTGAC GCTAAGAT GCTAAGGAT TTTCTTGGT TTTTATGCG GGAAACGTT GGAAACGTT GGAAACGT AGAAACGT AGAAACGT CTCTATGT- CTCTATGT- CTCTATGT- CTCTATGT- CTCTAAGA- GCCTGAAC- GCCTGAAC- GCCTGAAC- GCCTGAAC- GCCTGAAC- GCCTGAAC- GCCTGAAC- GCCTGAAC- CTCTATGT- CTCTATGT- CTCTATGT- CTCTATGT- CTCTAAGCAAC GTAAGCGAGC GAACGGGCC GAACGGGCC CACGTAGACC	560 	15 55777 3377 1111113209366220099990108551560500666

	570 580 590 600 610 620 630)
LOC 0s01g51690 pW26	>>>>>>>>>>>>>>>>>>>>>>>>>>>>	576.
H289702 pW26	AACAGAGAGTACTTGTTAAGCCATATACAGAGAGTAC-TTG-TTAAGCTAGACATGCATA	143
T3056296 pW26	AATGGTGAGAATCTTACCCTTTAACCTTAATATACT-ACTAT-TTGCTAAGCTATATAGACATGCATA	591
LOC Os01g53260 pW23	TCTCCAAACCTATCTGAAACGGTCGAGGCGATAGCTCTCTTATTAATCCACGAGTAGTATA	598
H1961965_pW23	TCTCCAAACCTATCTGAAACGGTCGAGGCGATAGCTCTCTTATTAATCCACGAGTAGTATA	598
T3027906_pW23	TCTCCAAACCTATGTGAAACGGTCGAGGCGATAGCTCTCTTATTAGTCCACGAGTAGTATA	598
LOC_Os06g44010_pW28	AGCAGAGTGAAAGTAAAATAATAGGGCCCGGAGTAATAATTAC-CAGCTGGTTCATCCCAAAAGGTA	483
H1976995_pW28	AGCAGAGTGAAAGTAAAATAATAGGGCCCGGAGTAATAATTAC-CAGCTGGTTCATCCCAAAAGGTA	576
T3063501_pW28	AGCAGAGTGAAAGTAAAATAATAGGGCCCGGAGTAATAATTAC-CAGCTGGTTCATCCCCAAAAGGTA	5/5
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H1950043_pW//	TGAGTTTTAAAATCCATTCTCCTAAGCTAGCATGGATCGATGAGGACCCCCACAGCTTTTTTTAAAAAATATC	532
H1972014 pW62p	AGGITTTCCGATTAGCTATAC-ARGGTGGTG-AGCTAGATGACCTAAATTTAAAGCCTCATC accmmmmccccammaccmamac-aaccmccarc-accmacamcaccmaaaammmaaacccmcamc	580
T3091546 pW62	AGGTTTTCCGATTAGCTCTAC-AAGGTGGTG-AGCCAGATGACCTAAATTTAAAGTCTCATC	580
LOC_Os05g39720 pW70	TTTTGTAGTTAAACCCACGAAGTCTAGATGTACCGCAACAGAATTTGCATTTAATTAA	566
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H1952278 pW79	ACTCGATCGTTTTCATCCGGATCGCTAGATGTGTAGTGGAGGAAGCTGCCTAGGCATTCCCAGTGACCGT	585
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DOC_OSU9925060_pw/6	AATCAACCCCAAGTGGAAAAACTATCAACAGTCCATTAGCTGAACTGGAACTGGAACTGCTAACCAGTAACT a amca a cocca a cmcca a a a a cmamca a ca cmcca mma comca a cmca a cmca a cmcca a comcoma a coa cma a cm	576
H1974322 pW76p	AATCAACCCAAGTGGAAAAAACTATCAACAGTCCATTAGCTGAACTGAAACTGCAAACTGCTAACCAGTAACT	576
LOC 0s01g51690 pW26	640 650 660 670 680 690 700	644
LOC_Os01g51690_pW26 H289702_pW26	640 650 660 670 680 690 700 AA-TTCAGGAACAGTGGGAACTACTAGGATTTACTGCAACTTTCGTGGCCCCAC-TGGCCCCGGATCCCA AA-TTCAGGAACAGTGGGAACTACTAGGATTTACTGCAACTTTCGTGGCCCCAC-TGGCCCCGGATCCCA	644 211
LOC_Os01g51690_pW26 H289702_pW26 T3056296_pW26	640 650 660 670 680 690 700 AA-TTCAGGAACAGTGGGAACTACTAGGATTTACTGCAACTTTCGTGGCTCCAC-TGGCCCCGGATCCCA AA-TTCAGGAACAGTGGGAACTACTAGGATTTACTGCAACTTTCGTGGCTCCAC-TGGCCCCGGATCCCA AA-TTCAGGAACAGTGGGAACTACTAGGATTTACTGCAACTGTCGTGGCTCCAC-TGGCCCCCGGATCCCA AA-TTCAGGAACAGTGGGAACTACTAGGATTTACTGCAACTGTCGTGGCTCCAC-TGGCCCCCGGATCCCA	644 211 659
LOC_Os01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_Os01g53260_pW23	640 650 660 670 680 690 700 AA-TTCAGGAACAGTGGGAACTACTAGGATTTACTGCAACTTTCGTGGCTCCAC-TGGCCCCGGATCCCA AA-TTCAGGAACAGTGGGAACTACTAGGATTTACTGCAACTTTCGTGGCTCCAC-TGGCCCCCGGATCCCA AA-TTCAGGAACAGTGGGAACTACTAGGATTTACTGCAACTTTCGTGGCTCCAC-TGGCCCCCGGATCCCA AA-TTCAGGAACAGTGGGAACTACTAGGATTTACTGCAACTGTCGTGGCTCCAC-TGGCCCCCGGATCCCA AA-TTCAGGAACAGTGGGAACTACTAGGATTTACTGCAACTGTCGTGGCTCCAC-TGACCCCCGGATCCCA TA-TTCATGGAACAGTGGGAACTACTAGGATTACTGCAACAGGGGACAATATGCAACAGCGTACCCA TA-TATTATCATGGAACATCAGACAAGGCTAATTAACAGAAGAGGGGACAATATGCAACAGCGTACCCCA	644 211 659 667
LOC_OS01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OS01g53260_pW23 H1961965_pW23 M3027006_pW23	640 650 660 670 680 690 700 AA-TTCAGGAACAGTGGGAACTACTAGGATTTACTGCAACTTTCGTGGGCTCCAC-TGGCCCCGGATCCCA AA-TTCAGGAACAGTGGGAACTACTAGGATTTACTGCAACTTTCGTGGGCTCCAC-TGGCCCCCGGATCCCA AA-TTCAGGAACAGTGGGAACTACTAGGATTTACTGCAACACTTTCGTGGGCTCCAC-TGGCCCCCGGATCCCA AA-TTCAGGAACAGTGGGAACTACTAGGATTTACTGCAACACGTGCGCCCCAC-TGGCCCCCGGATCCCA TACTTCAGGAACAGTGGGAACTACTAGGATTACTGCAACAGCGGGCACAATATGCAACAACGTATCCCA TATTTATCATGGAGACATCAGACAGGCTAATTAACAGAGGGGACAATATGCAACAACGTATCCCA TA-TATTATCATGGAGACATCAGACAGGCTAATTAACAGAGGGGACAATATGCAACAACGTATCCCA TATTTATCATGGAGACATCAGACAGGCTAATTAACAGAGAGGGGACAATATGCAACAACGTATCCCA TATTTATCATGCAGACACGCACACGCCTAATTAACAGAGAGGGGACAATATGCAACAACGTATCCCA TATTTATCATGCAGACACGCACACGCCCAATTAACAGAGGGGACAATATGCAACAACGTATCCCA	644 211 659 667 667
LOC_OS01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OS01g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_OS06g44010_pW28	640 650 660 670 680 690 700 AA-TTCAGGAACAGTGGGAACTACTAGGATTTACTGCAACTTTCGTGGCTCCAC-TGGCCCCGGATCCCA AA-TTCAGGAACAGTGGGAACTACTAGGATTTACTGCAACTTTCGTGGCTCCAC-TGGCCCCGGATCCCA AA-TTCAGGAACAGTGGGAACTACTAGGATTTACTGCAACATTTCGTGGCTCCAC-TGGCCCCCGGATCCCA AA-TTCAGGAACAGTGGGAACTACTAGGATTTACTGCAACATCGTGGCGCCCCAC-TGGCCCCCGGATCCCA AA-TTCAGGAACAGTGGGAACTACTAGGATTTACTGCAACACGTGCGCGCCCCAC-TGGCCCCCGGATCCCA AA-TTCAGGAGACAGTGGGAACTACTAGGACAAGGCTAATTAACAGAGGAGGGGACAATATGCAACAACGTATCCCA TATTTATCATGGAGACATCAGACAAGGCTAATTAACAGAGGAGGGGACAATATGCAACAACGTATCCCA TA-TATTATCATGGAGACATCAGACAAGGCTAATTAACAGAGGAGGGGACAATATGCAACAACGTATCCCA TA-TATTATCATGGAGACATCAGACAAGGCTAATTAACAGAGGAGGGGACAATATGCAACAACGTATCCCA	644 211 659 667 667 667 545
LOC_OSO1g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OS01g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_OS06g44010_pW28 H1976995_pW28	640 650 660 670 680 690 700 AA-TTCAGGAACAGTGGGAACTACTAGGATTTACTGCACTTTCGTGGCTCCAC-TGGCCCCGGATCCCA AA-TTCAGGAACAGTGGGAACTACTAGGATTTACTGCAACTTTCGTGGGCTCCAC-TGGCCCCCGATCCCA AA-TTCAGGAACAGTGGGAACTACTAGGATTTACTGCAACTGCTGGGGCTCCAC-TGGCCCCCGGATCCCA AA-TTCAGGAACAGTGGGAACTACTAGGATTTACTGCAACTGCTGGGGCTCCAC-TGGCCCCCGATCCCA AA-TTCAGGAACAGTGGGAACTACTAGGACAAGGCTAATTAACAGAGAGGGGACAATATGCAACAGCTATCCCA TATTATCATGGAGACATCAGACAAGGCTAATTAACAGAGAGGGGACAATATGCAACAACGTATCCCA TA-TATTATCATGGAGACATCAGACAAGGCTAATTAACAGAGAGGGGACAATATGCAACAACGTATCCCA TA-TATTATCATGGAGACATCAGACAAGGCTAATTAACAGAGAGGGGACAATATGCAACAACGTATCCCA GTAGTGAAGGAGTCAACAAATGAATCCAAATTAGCTAGCCTAAATTCTTTCAAGGAGGGCCA	644 211 659 667 667 667 545 638
LOC_OS01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OS01g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_OS06g44010_pW28 H1976995_pW28 T3063501_pW28	640 650 660 670 680 690 700 AA-TTCAGGAACAGTGGGAACTACTAGGATTTACTGCAACTTTCGTGGCTCCAC-TGGCCCCGGATCCCA AA-TTCAGGAACAGTGGGAACTACTAGGATTTACTGCAACTTTCGTGGCTCCAC-TGGCCCCGGATCCCA AA-TTCAGGAACAGTGGGAACTACTAGGATTTACTGCAACTTTCGTGGGCTCCAC-TGGCCCCCGATCCCA AA-TTCAGGAACAGTGGGAACTACTAGGATTACTGCAACACGTGTGGTGCTCCAC-TGGCCCCCGATCCCA AA-TTCAGGAACAGTGGGAACTACTAGGACAGGCTAATTAACAGAGAGGGGACAATATGCAACAACGTATCCCA TACTATTATCATGGAGACATCAGACAAGGCTAATTAACAGAGAGGGGACAATATGCAACAACGTATCCCA TA-TATTATCATGGAGACATCAGACAAGGCTAATTAACAGAGAGGGGACAATATGCAACAACGTATCCCA TA-TATTATCATGGAGACATCAGACAAGGCTAATTAACAGAGAGGGGACAATATGCAACAACGTATCCCA TA-TATTATCATGGAGACATCAGACAAGGCTAATTAACAGAGAGGGGACAATATGCAACAACGTATCCCCA TA-TATTATCATGGAGACATCAGAACAAGGCTAATTAACAGAGAGGGGACAATATGCAACAACGTATCCCA	644 211 659 667 667 667 545 638 637
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LOC_OSO1g51690_pW26 H289702_pW26 LOC_OSO1g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_OSO6g44010_pW28 H1976995_pW28 T3063501_pW28 LOC_OS05g46020_pW07 H2000561_pW07 H2000561_pW07 H2003518_pW64 T3095730_pW64 LOC_OS12g02450_pW64 LOC_OS12g02450_pW64 LOC_OS01g40260_pW77 T3097007_pW77 H1950043_pW77 LOC_OS025070_pW62	640 650 660 670 680 690 700 AA - TTCAGGAACAGTGGGAACTACTAGGATTACTGCAACTTTCGTGGCTCCAC - TGGCCCCGGATCCCA AA - TTCAGGAACAGTGGGAACTACTAGGATTACTGCAACTTTCGTGGGCTCCAC - TGGCCCCGGATCCCA AA - TTCAGGAACAGTGGGAACTACTAGGATTACTGCAACTTTCGTGGGCTCCAC - TGGCCCCGGATCCCA AA - TTCAGGAACAGTGGGAACTACTAGGATTACTGCAACTGTGCGTGGGCTCCAC - TGGCCCCGGATCCCA AA - TTCAGGAACGAGGGGAACTACTAGGATTACTGCAACTGTGCGTGGGCTCCAC - TGGCCCCAGATCCCA TA - TATTATCATGGAGACATCAGACAAGGCTAATTAACAGAGAGGGGACAATATGCAACACGTATCCCA TA - TATTATCATGGAGACATCAGACAAGGCTAATTAACAGAGAGGGGACAATATGCAACAACGTATCCCA TA - TATTATCATGGAGAGCAACAAATGAATCCAAATTAGCTAGC	644 211 659 667 667 649 649 649 649 649 364 602 601 601
LOC_OSO1g51690_pW26 H289702_pW26 LOC_OSO1g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_OSO6g44010_pW28 H1976995_pW28 T3063501_pW28 LOC_OS05g46020_pW07 H2000561_pW07 H2000561_pW07 H2000561_pW07 H200318_pW64 T3095730_pW64 LOC_OS12g02450_pW64 LOC_OS12g02450_pW64 LOC_OS01g40260_pW77 T3097007_pW77 H1950043_pW77 LOC_OS09g25070_pW62 H1972014_pW62p	640 650 660 670 680 690 700 AA -TTCAGGAACAGTGGGAACTACTAGGATTTACTGCAACTTCGTGGGCTCCAC -TGGCCCCGGATCCCA AA -TTCAGGAACAGTGGGAACTACTAGGATTTACTGCAACTTCGTGGGCTCCAC -TGGCCCCGGATCCCA AA -TTCAGGAACAGTGGGAACTACTAGGATTTACTGCAACTTCGTGGGCTCCAC -TGGCCCCCGGATCCCA AA -TTCAGGAACAGTGGGAACTACTAGGATTACTGCAACTGTCGTGGGCTCCAC -TGACCCCAGATCCCA TA TATTATCATGGAGACATCAGACAAGGCTAATTAACAGAGAGGGGACAATATGCAACAACGTATCCCA TA -TATTATCATGGAGACATCAGACAAGGCTAATTAACAGAGAGGGGACAATATGCAACAACGTATCCCA TA -TATTATCATGGAGACATCAGACAAGGCTAATTAACAGAGAGGGGACAATATGCAACAACGTATCCCA TA -TATTATCATGGAGACATCAGACAAGGCTAATTAACAGAGAGGGGACAATATGCAACAACGTATCCCA TA -TATTATCATGGAGACATCAGAACAAATGAATCCAAATTAGCTAGC	644 211 659 667 667 545 638 649 649 649 649 643 601 645 645
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LOC_OSO1g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OSO1g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_OSO6g44010_pW28 H1976995_pW28 T3063501_pW28 LOC_OSO5g46020_pW07 H2000561_pW07 T3066720_pW07 H2023318_pW64 LOC_OS01g40260_pW77 T3097007_pW77 H1950043_pW77 LOC_OS09g25070_pW62 H1972014_pW62p T3091546_pW62 LOC_OS05g39720_pW70 H334389_pW70 T3094952_pW70 LOC_OS05g45230_pW58 H1970054_pW52	640 650 660 670 680 690 700 AA-TTCAGGAACAGTGGGAACTACTAGGATTACTGCAACTTTCGTGGCTCCAC-TGGCCCCGGATCCCA AA-TTCAGGAACAGTGGGAACTACTAGGATTACTGCAACTTTCGTGGCTCCAC-TGGCCCCGGATCCCA AA-TTCAGGAACAGTGGGAACTACTAGGATTTACTGCAACTTTCGTGGCTCCAC-TGGCCCCAGGATCCCA AA-TTCAGGAACAGTGGGAACTACTAGGATTACTGCAACTGTCGTGGCTCCAC-TGACCCCAGATCCCA TA-TATTATCATGGAGACATCAGACAAGGCTAATTAACAGAGAGGGACAATATGCAACAACGTATCCCA TA-TATTATCATGGAGACATCAGACAAGGCTAATTAACAGAGAGGGGACAATATGCAACAACGTATCCCA TA-TATTATCATGGAGACATCAGACAAGGCTAATTAACAGAGAGGGGACAATATGCAACAACGTATCCCA TA-TATTATCATGAGAGAGTCAACAAAGGATCACAAGGCTAATTAGCAAGGGGACAATATGCAACAACGTATCCCA T	644 211 659 667 667 649 649 649 643 601 645 645 649 643 601 645
LOC_OSO1g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OSO1g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_OSO6g44010_pW28 H1976995_pW28 T3063501_pW28 LOC_OSO5g46020_pW07 H2000561_pW07 T3066720_pW07 H2023318_pW64 LOC_OS01g40260_pW77 T3097007_pW77 H1950043_pW77 LOC_OS09g25070_pW62 H1972014_pW62p T3091546_pW62 LOC_OS05g39720_pW70 H334389_pW70 T3094952_pW70 LOC_OS05g45230_pW58 H1850565_pW58p	640 650 660 670 680 690 700 AA-TTCAGGAACAGTGGGAACTACTAGGATTTACTGCAACTTCGTGGCTCCAC-TGGCCCCGGATCCCA AA-TTCAGGAACAGTGGGAACTACTAGGATTTACTGCAACTTCGTGGCTCCAC-TGGCCCCGGATCCCA AA-TTCAGGAACAGTGGGAACTACTAGGATTTACTGCAACTTCGTGGCTCCAC-TGGCCCCGGATCCCA AA-TTCAGGAACAGTGGGAACTACTAGGATTACTGCAACTGCGGGCCCAC-TGACCCCAGATCCCA TA-TATTATCATGGAGACATCAGACAAGGCTAATTAACAGAGGGGGACAATATGCAACAACGTATCCCA TA-TATTATCATGGAGACATCAGACAAGGCTAATTAACAGAGAGGGGACAATATGCAACAACAGTATCCCA	644 211 659 667 667 649 649 643 643 601 645 645 649 643 601 645
LOC_OSO1g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OSO1g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_OSO6g44010_pW28 H1976995_pW28 T3063501_pW28 LOC_OSO5g46020_pW07 H200561_pW07 T3066720_pW07 H2003318_pW64 LOC_OS12g02450_pW64 LOC_OS12g02450_pW64 LOC_OS01g40260_pW77 T3097007_pW77 H1950043_pW77 LOC_OS09g25070_pW62 H1972014_pW62p T3091546_pW62 LOC_OS05g39720_pW70 H334389_pW70 T3094952_pW70 LOC_OS05g45230_pW58 H1850565_pW58p T3075919_pW58 LOC_OS03g21710_pW79	640 650 660 670 680 690 700 AA-TTCAGGAACAGTGGGAACTACTAGGATTTACTGCAACTTTCGTGGCTCCAC-TGGCCCCGGATCCCA AA-TTCAGGAACAGTGGGAACTACTAGGATTTACTGCAACTTCGTGGCTCCAC-TGGCCCCGGATCCCA AA-TTCAGGAACAGTGGGAACTACTAGGATTTACTGCAACTTCGTGGCTCCAC-TGGCCCCGGATCCCA AA-TTCAGGAACAGTGGGAACTACTAGGATTACTGCAACTGCGTGGCTCCAC-TGGCCCCGGATCCCA TA-TATTATCATGAGACATCAGACAAGGCTAATTAACAGAGAGGGGACAATATGCAACAACGTATCCCA TA-TATTATCATGAGAGACATCAGACAAGGCTAATTAACAGAGAGGGGACAATATGCAACAACGTATCCCA TA-TATTATCATGGAGACATCAGACAAGGCTAATTAACAGAGAGGGGACAATATGCAACAACGTATCCCA	644 211 659 667 667 667 649 649 497 3643 601 645 645 649 643 601 645 645 645 645 642 645 627 7 640 622
LOC_OSO1g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OSO1g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_OSO6g44010_pW28 H1976995_pW28 T3063501_pW28 LOC_OSO5g46020_pW07 H200561_pW07 T3066720_pW07 H2003318_pW64 LOC_OS12g02450_pW64 LOC_OS12g02450_pW64 LOC_OS01g40260_pW77 T3097007_pW77 H1950043_pW77 LOC_OS09g25070_pW62 H1972014_pW62p T3091546_pW62 LOC_OS05g39720_pW70 H334389_pW70 T3094952_pW70 LOC_OS05g45230_pW58 H1850565_pW58p T3075919_pW58 LOC_OS03g21710_pW79 H1952278_pW79	640 650 660 670 680 690 700 AA-TTCAGGAACAGTGGGAACTACTAGGATTTACTGCAACTTCGTGGCTCCAC-TGGCCCCGGATCCCA AA-TTCAGGAACAGTGGGAACTACTAGGATTTACTGCAACTTCGTGGCTCCAC-TGGCCCCGGATCCCA AA-TTCAGGAACAGTGGGAACTACTAGGATTACTGCAACTGCGTGGGCTCCAC-TGGCCCCGGATCCCA AA-TTCAGGAACAGTGGGAACTACTAGGATTACTGCAACTGCGTGGGCTCCAC-TGGCCCCGGATCCCA TA-TATTATCATGGAGACATCAGACAAGGCTAATTAACAGAGAGGGGACAATATGCAACAGCTATCCCA TA-TATTATCATGGAGACATCAGACAAGGCTAATTAACAGAGAGGGGACAATATGCAACAACGTATCCCA TA-TATTATCATGGAGACATCAGACAAGGCTAATTAACAGAGAGGGGACAATATGCAACAACGTATCCCA	644 211 659 667 667 649 649 497 3643 601 645 645 649 643 601 645 652 640 652 652 652 652 77 640 652 652 77 640 652 77 640 652 77 7 640 652 77 7 7 640 652 7 7 7 7 7 7 7 7
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LOC_OSO1g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OSO1g53260_pW23 H1961965_pW23 LOC_OSO6g44010_pW28 H1976995_pW28 T3063501_pW28 LOC_OSO5g46020_pW07 H2000561_pW07 T3066720_pW07 H2000561_pW07 T3096730_pW64 LOC_OS12g02450_pW64 LOC_OS12g02450_pW64 LOC_OS12g02450_pW64 LOC_OS12g02450_pW70 T3097007_pW77 H1950043_pW77 LOC_OS09g25070_pW62 H1972014_pW62p T3091546_pW62 LOC_OS05g39720_pW70 H334389_pW70 T3094952_pW70 LOC_OS05g45230_pW58 H1850565_pW58p T3075919_pW58 LOC_OS03g21710_pW79 H1952278_pW79 T3070072_pW79 LOC_OS05g49620_pW19 H2014700_pW19	640 650 660 670 680 690 700 AA-TTCAGGAACAGTGGGAACTACTAGGATTTACTGCAACTTTCGTGGCTCCAC-TGGCCCCGGATCCCA AA-TTCAGGAACAGTGGGAACTACTAGGATTTACTGCAACTTTCGTGGCTCCAC-TGGCCCCGGATCCCA AA-TTCAGGAACAGTGGGAACTACTAGGATTTACTGCAACTGTCGTGGCGCCAC-TGGCCCCGGATCCCA AA-TTCAGGAACAGTGGGAACTACTAGGATTACTGCAACTGTCGTGGCGCCCAC-TGGCCCCGGATCCCA AA-TTCAGGAACACTCAGACAAGGCTAATTAACAGAGAGGGGACAATATGCAACAACGTATCCCA TA-TATTATCATGGAGACATCAGACAAGGCTAATTAACAGAGAGGGGACAATATGCAACAACGTATCCCA TA-TATTATCATGGAGACTCAGACAAGGCCTAATTAACAGAGAGGGGACAATATGCAACAACGTATCCCA TA-TATTATCATGGAGACTCAGACAAGAGCCAAATTGCACAACGTATCCCA TA-TATTATCATGGAGACTCAGACAAGAGCCAAATTGCAAATTCTTTCAAGGAGGGCCA	644 211 659 667 667 643 649 643 601 645 645 627 626 627 627 628 652
Loc_os01g51690_pW26 H289702_pW26 T3056296_pW26 Loc_os01g53260_pW23 H1961965_pW23 Loc_os06g44010_pW28 H1976995_pW28 T3063501_pW28 Loc_os05g46020_pW07 H2000561_pW07 T3066720_pW07 H2000561_pW07 T3095730_pW64 Loc_os12g02450_pW64 Loc_os12g02450_pW64 Loc_os01g40260_pW77 T3097007_pW77 H1950043_pW77 Loc_os09g25070_pW62 H1972014_pW62p T3091546_pW62 Loc_os05g39720_pW70 H334389_pW70 T3094952_pW70 Loc_os05g45230_pW58 H1850565_pW58p T3075919_pW58 Loc_os03g21710_pW79 H1952278_pW79 T3070072_pW79 Loc_os05g49620_pW19 H2014700_pW19 T3058779_pW19	640 650 660 670 680 690 700 AA-TTCAGGAACAGTGGGAACTACTAGGATTTACTGCAACTTTCGTGGCTCCAC-TGGCCCCGGATCCCA AA-TTCAGGAACAGTGGGAACTACTAGGATTTACTGCAACTGTCGTGGCTCCAC-TGGCCCCGGATCCCA AA-TTCAGGAACAGTGGGAACTACTAGGATTTACTGCAACTGTCGTGGCTCCAC-TGGCCCCGGATCCCA AA-TTCAGGAACAGTGGGAACTACTAGGATTTACTGCAACTGTCGTGGCTCCAC-TGGCCCCGGATCCCA AA-TTCAGGAACAGTGGGAACTACTAGGACTAGTAACTAGCAACGGGGCCAATATGCAACAACGTATCCCA TA-TATTATCATGGAGACTCAGACAAGGCTAATTAACAGAGAGGGGACAATATGCAACAACGTATCCCA TA-TATTATCATGGAGACTCAGACAAGGCCTAATTACCAGAGGGGCAAATGCGAACACGCTATCCCCA GTAGTGAAGGAGTCAACAAAGAATCAAATGCAAATTAGCTAGC	644 211 659 667 667 649 649 649 649 643 601 645 645 645 652 652 652 641 642 652 652 652 641 640 652 652 652 652 652 652 652 652 652 652 652 652 652 652 652 645 652 652 652 645 646
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	710 720 730 740 750 760 77	0
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LOC_Os01g53260_pW23	CAAGCTTCCATCCATGCATGCATGCATGGATCGGCGAAGTTAAAATTTCTATGACTCGT-TGAGGGAC	734
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н1976995_рW28	AATTGTAACCCTCCTGGTTGTTGGCATGTGGTGTTTTTCCTTG-AC-CCTGCTTGCAGATGCAACCAGC	705
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LOC_Os05g46020_pW07	AGACATTTCCGCCATGC-TGCTAAAATAAGTGGGCACGCCGTG-CG-CGCGTGCGTGCGTTCGAGCGGC	715
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H2023318 pW64	AAGCATGTGCTACATGCATCATATCAATCCATGAGATCTATTGATCTTCCCCTGCAATTGCCTTAGCC	565
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LOC Os12g02450 pW64	AAGCATGTGCTACATGCATCATATCCATGAGATCTATCGATCTTCCCCTGCAGTTGCCTGAGCC	711
LOC Os01q40260 pW77	TGATTTAAATTTCTGGCTCCGTCTGGACAGGAGCCGGGCCACT-TGTACTGCACAGTTCTGGACTTCTG-	670
T3097007 pw77	TGATTTAAATTTCTGGCTCCGTCTGGACAGGAGCCGGGCCACT-TGTACTGCACAGTTCTGGACTTCTG-	669
H1950043 pW77	TGATTTAAATTTCTGGCTCCGTCTGGACAGGAGCCGGGCCACT-TGTACTGCACAGTTCTGGACTTCTG-	669
LOC 0s09g25070 pW62	AGGTAAAACATTAATTCCGTAGAAGAAGAAGAGTAGAATTTTGATATCCTACGAGGCCATGAGTCACAT-	712
H1972014 pW62p	AGGTAAAACATTAATTCCGTAGAAGAAGAAGAAGTAGAATTTTGATATCCTACGAGGCCATGAGTCACAT-	712
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H334389 pW70		688
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13073919_pw36		700
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T3076120_pW76	AAGGCCTCATGCCCTATACGCGATTCGTGACGTCGCGCCCCGTCGTCGTCGTCGTCGGGCCGGGCCGGGACGAC	716
	780 790 800 810 820 830 84	0
-	780 790 800 810 820 830 84 	0
LOC_0s01g51690_pW26	780 790 800 810 820 830 84	° 770
LOC_Os01g51690_pW26 H289702_pW26	780 790 800 810 820 830 84 AAATAGGCAAA-AGGCGA-CGTCCACGAGTCCATGTCATGACACACCCCAAGTTGCTGTAA AAATAGGCAAA-AGGCGA-CGTCCACGAGTCCATGTCATGACACACCCCAAGTTGCTGTAA	0 770 337
LOC_Os01g51690_pW26 H289702_pW26 T3056296_pW26	780 790 800 810 820 830 84 ANATAGGCAAA-AGGCGA-CGTCCACGAGTCCATGTCATGACACACCCCAAGTTGCTGTAA ANATAGGCAAA-AGGCGA-CGTCCACGAGTCCATGTCATGACACACCCCAAGTTGCTGTAA ANATAGGCAAA-AGGCGA-CGTCCACGAGTCCATGTCATGACACACCCCAAGTTGCTGTAA ANATAGGCAAA-AGGCGA-CGTCCACGAGTCCATGTCATGACACACCCCAAGTTGCTGTAA	0 770 337 785
LOC_Os01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_Os01g53260_pW23	780 790 800 810 820 830 84 ANATAGGCANA-AGGCGA-CGTCCACGAGTCCATGTCATGACACACCCCAAGTTGCTGTAA ANATAGGCANA-AGGCGA-CGTCCACGAGTCCATGTCATGACACACCCCAAGTTGCTGTAA ANATAGGCANA-AGGCGA-CGTCCACGAGTCCATGTCATGACACACCCCAAGTTGCTGTAA ANATAGGCANA-AGGCGA-CGTCCACGAGTCCATGTCATGACACACCCCAAGTTGCTGTAA GAGACGACGGCGAGGTGAGCGACCTTAGATACAGGGTGGTTGTGATCTGGTTGTGCTCTAT	0 770 337 785 795
LOC_Os01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_Os01g53260_pW23 H1961965_pW23	780 790 800 810 820 830 84 AAATAGGCAAA-AGGCGA-CGTCCACGAGTCCATGTCATGACACACCCCAAGTTGCTGTAAA AAATAGCACACCCCAAGTTGCTGTAAA AAATAGGCAAA-AGGCGA-CGTCCACGAGTCCATGTCATGACACACCCCCAAGTTGCTGTAAA AAATAGGCAAA-AGGCGA-CGTCCACGAGTCCATGTCATGACACACCCCCAAGTTGCTGTAAA AAATAGGCAAA-AGGCGA-CGTCCACGAGTCCATGTCATGACACACCCCCAAGTTGCTGTAAA AAATAGGCAAA-AGGCGA-CGTCCACGAGTCCATGTCATGACACACCCCCAAGTTGCTGTAAA GAGACGACGGCGAGGTGAGCGACCTTAGATACAGGGTGGTTGTGATCTGGTTGTGCTCTAT GAGACGACGGCGAGGTGAGCGACCTTAGATACAGGGTGGTTGTGATCTGGTTGTGCTCTAT	0 337 785 795 795
LOC_OS01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OS01g53260_pW23 H1961965_pW23 T3027906_pW23	780 790 800 810 820 830 84 AAATAGGCAAA-AGGCGA-CGTCCACGAGTCCATGTCATGT	0 337 785 795 795 795
Loc_os01g51690_pW26 H289702_pW26 T3056296_pW26 Loc_os01g53260_pW23 H1961965_pW23 T3027906_pW23 Loc_os06g44010_pW28	780 790 800 810 820 830 84 ANATAGGCAAA-AGGCGA-CGTCCACGACTCCATGTCATGACACACCCCAAGTTGCTGTAA ANATAGGCAAA-AGGCGA-CGTCCACGACTCCATGTCATGACACACCCCAAGTTGCTGTAA ANATAGGCAAA-AGGCGA-CGTCCACGACTCCATGTCATGACACACCCCAAGTTGCTGTAA AAATAGGCAAA-AGGCGA-CGTCCACGACTCCATGTCATGACACACCCCAAGTTGCTGTAA AAATAGGCAAA-AGGCGA-CGTCCACGACTCCATGTCATGACACACCCCCAAGTTGCTGTAA GACACGACGGCCAGCGACCGACCTTAGATACAGGCTGGTTGTGATCTGGTTGTGCTCTAT GAGACGACGGCCAGGTGAGCGACCTTAGATACAGGCTGGTTGTGATCTGGTTGTGCTCTAT GAGACGACGGCCAGGTGAGCGACCTTAGATACAGGGTGGTTGTGATCTGGTTGTGCTCTAT CAGCCAGAAGACTCTTCTATCCTCTTAGATACAGGATGATAACCCAGATCTAATAAAAAA-CAC	0 337 785 795 795 795 675
LOC_OS01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OS01g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_OS06g44010_pW28 H1976995_pW28	780 790 800 810 820 830 84 ANATAGGCAAA-AGGCGA-CGTCCACGAGTCCATGTCATGGACACACCCCAAGTTGCTGTAAA ANATAGGCAAA-AGGCGA-CGTCCACGAGTCCATGTCATGACACACCCCAAGTTGCTGTAAA ANATAGGCAAA-AGGCGA-CGTCCACGAGTCCATGTCATGACACACCCCAAGTTGCTGTAAA AAATAGGCAAA-AGGCGA-CGTCCACGAGTCCATGTCATGACACACCCCAAGTTGCTGTAAA AAATAGGCAAA-AGGCGA-CGTCCACGAGTCCATGTCATGACACACCCCAAGTTGCTGTAAA GACACGACGGGCAGCGAGCGACCTTAGATACAGGGTGGTTGTGATCTGGTTGTGCTCTAT GACACGACGGCCAGGTGAGCGACCTTAGATACAGGGTGGTTGTGATCTGGTTGTGCTCTAT GACACGACGGCCAGGTGAGCGACCTTAGATACAGGGTGGTTGTGATCTGGTTGTGCTCTAT CAGCCAGAAGACTCTTCTATCCTCTTAATTTGACAGAATAATCCCAGATCTAATAAAAAA-CAC CAGCCAGAAGACTCTTCTATCCTCTTAATTTGACAGAATAATCCCAGATCTAATAAAAAA-CAC	0 337 785 795 795 795 675 768
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Loc_os01g51690_pW26 H289702_pW26 Loc_os01g53260_pW23 H1961965_pW23 Loc_os06g44010_pW28 H1976995_pW28 T3063501_pW28 Loc_os05g46020_pW07 H2000561_pW07 T3066720_pW07 H2023318_pW64 T3095730_pW64 Loc_os12g02450_pW64	780 790 800 810 820 830 84 ANATAGGCAAA-AGGCGA-CGTCCACGAGTCCATGTCATGACACACCCCAAGTTGCTGTAA ANATAGGCAAA-AGGCGA-CGTCCACGAGTCCATGTCATGACACACCCCAAGTTGCTGTAA ANATAGGCAAA-AGGCGA-CGTCCACGAGTCCATGTCATGACACACCCCCAAGTTGCTGTAA ANATAGGCAAA-AGGCGA-CGTCCACGAGTCCATGTCATGACACACCCCCAAGTTGCTGTAA AAATAGGCAAA-AGGCGA-CGTCCACGAGTCCATGTCATGACACACCCCCAAGTTGCTGTAA GACACGACGGCCAGGTGACCGACCTTAGATACAGGGTGGTTGTGATCTGGTTGTGCTCTAT GAGACGACGGCCAGGTGAGCGACCTTAGATACAGGGTGGTTGTGATCTGGTTGTGCTCTAT CAGCCAGAAGACTCTTCTATCCTCTTAATTTGACAGAATAATCCCAGATCTAATAAAAAA-CAC CAGCCAGAAGACTCTTCTATCCTCTTAATTTGACAGAATAATCCCAGATCTAATAAAAAA-CAC CAGCCAGAAGACTCTTCTATCCTCTTAATTTGACAGAATAATCCCAGATCTAATAAAAAA-CAC CAGCCAGAAGACTCTTCTATCCTCTTAATTTGACAGAATAATCCCAGATCTAATAAAAAA-CAC CAGCCAGAAGACTCTTCTATCCTCTTAATTTGACAGAATAATCCCAGATCTAATAAAAAA-CAC CAGCCAGAAGACTCTTCTATCCTCTTAATTTGACAGAATAATCCCAGATCTAATAAAAAA-CAC CAGCCAGAAGACTCCTTCTATCCTCTTAATTTGACAGAATAATCCCAGATCTAATAAAAAAA-CAC CAGCCCAGAAGACTCCTTCTATCCTCTTAATTTGACAGAATAATCCCAGATCTAATAAAAAAACAC CAGCCAGAAGACTCTTCTATCCTCTTAATTTGACAGAATAATCCCAGATCTAATAAAAAAACAC CAGCCAGAAGACTCTTCTATCCTCCTCCTCACGAAGCTCACCGCGAAGCCC GGCGCGCGCGCGCAACTCCCGCACCCGCTCCGAACCTTCTCCCCCCCAGAGCCCGCGCGCG	0 337 785 795 795 795 795 795 768 768 768 785 785 785 785 632 499 777
Loc_os01g51690_pW26 H289702_pW26 T3056296_pW26 Loc_os01g53260_pW23 H1961965_pW23 T3027906_pW23 Loc_os06g44010_pW28 H1976995_pW28 T3063501_pW28 Loc_os05g46020_pW07 H2000561_pW07 H2000561_pW07 H2023318_pW64 T3095730_pW64 Loc_os12g02450_pW64 Loc_os01g40260_pW77	780 790 800 810 820 830 84 ANATAGGCAAA-AGGCGA-CGTCCACGAGTCCATGTCATGGACACACCCCAAGTTGCTGTAA ANATAGGCAAA-AGGCGA-CGTCCACGAGTCCATGTCATGACACACCCCCAAGTTGCTGTAA ANATAGGCAAA-AGGCGA-CGTCCACGAGTCCATGTCATGACACACCCCCAAGTTGCTGTAA ANATAGGCAAA-AGGCGA-CGTCCACGAGTCCATGTCATGACACACCCCCAAGTTGCTGTAA AAATAGGCAAA-AGGCGA-CGTCCACGAGTCCATGTCATGACACACCCCCAAGTTGCTGTAT GAGACGACGGCCAGGTGAGCGACCTTAGATACAGGGTGGTTGTGATCTGGTTGTGCTCTAT GAGACGACGGCCAGGTGAGCGACCTTAGATACAGGGTGGTTGTGATCTGGTTGTGCTCTAT CAGCCAGAAGACTCTTCTATCCTCTTAATTTGACAGAATAATCCCAGATCTAATAAAAAA-CAC CAGCCAGAAGACTCTTCTATCCTCTTAATTTGACAGAATAATCCCAGATCTAATAAAAAA-CAC CAGCCAGAAGACTCTTCTATCCTCTTAATTTGACAGAATAATCCCAGATCTAATAAAAAA-CAC CAGCCGCGCGCGCAACTCCCGCACCGCCTCCGAACCTTCTCCCCTCCTCACGAAGCTCACCGCGAAGCCG GGCGCGCGCGCGCAACTCCCGCACCGCCCCCGCTCCGAACCTTCTCCCCCCCACGAAGCCCG GGCCGCGCGCGCGAACTCCCCGCACCGCCCCGCTCCGAACCTTCTCCCCCCCC	0 337 785 795 795 795 795 795 785 785 785 785 785 632 499 777 736
Loc_os01g51690_pW26 H289702_pW26 T3056296_pW26 Loc_os01g53260_pW23 H1961965_pW23 T3027906_pW23 Loc_os06g44010_pW28 H1976995_pW28 Loc_os05g46020_pW07 H200561_pW07 T3066720_pW07 H200318_pW64 T3095730_pW64 Loc_os12g02450_pW64 Loc_os01g40260_pW77 T3097007_pW77	780 790 800 810 820 830 84 ANATAGGCAAA -AGGCGA -CGTCCACGACCCATGTCATGACACACCCCAAGTTGCTGTAA AAATAGGCAAA -AGGCGA-CGTCCACGACTCCATGTCATGACACACCCCAAGTTGCTGTAA AAATAGGCAAA -AGGCGA-CGTCCACGACTCCATGTCATGACACACCCCCAAGTTGCTGTAA AAATAGGCAAA -AGGCGA-CGTCCACGACTCCATGTCATGACACACCCCCAAGTTGCTGTAA AAATAGGCAAA -AGGCGA-CGTCCACGACTCCATGTCATGACACACCCCCAAGTTGCTGTAA GAGACGACGGCCAGGTGAGCGACCTTAGATACAGGGTGGTTGTGATCTGGTTGTGCTCTAT GAGACGACGGCCAGGTGACCGACCTTAGATACAGGGTGGTTGTGATCTGGTTGTGCTCTAT CAGCCAGAAGACTCTTCTATCCTCTTAATTGACAGGATGATATCCCAGATCTAATAAAAAA-CAC CAGCCAGAAGACTCTTCTATCCTCTTAATTTGACAGAATAATCCCAGATCTAATAAAAAA-CAC CAGCCAGAAGACTCTTCTATCCTCTTAATTTGACAGAATAATCCCAGATCTAATAAAAAA-CAC CGCGCGCGCGCGCGCAACTCCCCGCACCGCTCCGAACCTTCTCCCTCC	0 337 785 795 795 675 785 785 785 785 785 632 499 777 736 735
Loc_os01g51690_pW26 H289702_pW26 T3056296_pW26 Loc_os01g53260_pW23 H1961965_pW23 T3027906_pW23 Loc_os06g44010_pW28 H1976995_pW28 Loc_os05g46020_pW07 H200561_pW07 T3066720_pW07 H2023318_pW64 T3095730_pW64 Loc_os12g02450_pW64 Loc_os01g40260_pW77 H1950043_pW77	780 790 800 810 820 830 84 ANATAGGCAAA -AGGCGA -CGTCCACGAGTCCATGTCATGACACACCCCAAGTTGCTGTAA ANATAGGCAAA -AGGCGA-CGTCCACGAGTCCATGTCATGACACACCCCCAAGTTGCTGTAA ANATAGGCAAA -AGGCGA-CGTCCACGAGTCCATGTCATGACACACCCCCAAGTTGCTGTAA ANATAGGCAAA -AGGCGA-CGTCCACGAGTCCATGTCATGACACACCCCCAAGTTGCTGTAA GAGACGACGGCGAGGTGAGCGACCTTAGATACAGGGTGGTTGTGATCTGGTTGTGCTCTAT GAGACGACGGCCAGGTGAGCGACCTTAGATACAGGGTGGTTGTGATCTGGTTGTGCTCTAT GAGACGACGGCCAGGTGAGCGACCTTAGATACAGGGTGGTTGTGATCTGGTTGTGCTCTAT GAGACGACGGCCAGGTGAGCGACCTTAGATACAGGGTGGTTGTGATCTGGTTGTGCTCTAT CAGCCAGAAGACTCTTCTATCCTCTTAATTTGACAGAATAATCCCAGATCTAATAAAAAA-CAC CAGCCAGAAGACTCTTCTATCCTCTTAATTTGACAGAATAATCCCAGATCTAATAAAAAAACAC CGCGCGCGCGCGCGCAGACTCCCCGCACCCGCTCCGAACCTTCTCCCTCC	0 337 7855 795 795 765 768 785 785 632 499 777 736 735 735
Loc_os01g51690_pW26 H289702_pW26 T3056296_pW26 Loc_os01g53260_pW23 H1961965_pW23 Loc_os06g44010_pW28 H1976995_pW28 T3063501_pW28 Loc_os05g46020_pW07 H200361_pW07 T3066720_pW07 H2023318_pW64 T3095730_pW64 Loc_os12g02450_pW64 Loc_os01g40260_pW77 T3097007_pW77 H1950043_pW77 Loc_os09g25070_pW62	780 790 800 810 820 830 84 ANATAGGCAAA - AGGCGA - CGTCCACGAGTCCATGTCATGACACACCCCAAGTTGCTGTAA ANATAGCACAACCCCAAGTTGCTGTAA ANATAGCACACCCCCAAGTTGCTGTAA ANATAGGCAAA - AGGCGA - CGTCCACGAGTCCATGTCATGACACACCCCCAAGTTGCTGTAA ANATAGCACACCCCAAGTTGCTGTAA GAGACGACGGCCAGGTGAGCGACCTAGATCAGGGTGGTTGTGATCTGGTTGTGCTCTAT GAGACGACGGCCAGGTGAGCGACCTTAGATACAGGGTGGTTGTGATCTGGTTGTGCTCTAT GAGACGACGGCCAGGTGAGCGACCTTAGATACAGGGTGGTTGTGATCTGGTTGTGCTCTAT GAGACGACGGCCAGGTGAGCGACCTTAGATACAGGGTGGTTGTGATCTGGTTGTGCTCTAT CAGCCAGAAGACTCTTCTATCCTCTTAATTTGACAGAATAATCCCAGATCTAATAAAAAA-CAC CAGCCAGAAGACTCTTCTATCCTCTTAATTTGACAGAATAATCCCAGATCTAATAAAAAAACAC CGCCGCGCCGCGGCAACTCCCCGCACCCGCTCCGAACCTTCTCCCTCC	0 337 7855 795 795 765 785 785 785 632 499 777 736 735 735 735
Loc_os01g51690_pW26 H289702_pW26 T3056296_pW26 Loc_os01g53260_pW23 H1961965_pW23 Loc_os06g44010_pW28 H1976995_pW28 T3063501_pW28 Loc_os05g46020_pW07 H200361_pW07 T3066720_pW07 H2003511_pW64 Loc_os12g02450_pW64 Loc_os12g02450_pW64 Loc_os01g40260_pW77 T3097007_pW77 H1950043_pW77 Loc_os09g25070_pW62 H1972014_pW62p	780 790 800 810 820 830 84 ANATAGGCAAA - AGGCGA - CGTCCACGAGTCCATGTCATGACACACCCCAAGTTGCTGTAA ANATAGGCAAA - AGGCGA - CGTCCACGAGTCCATGTCATGACACACCCCCAAGTTGCTGTAA AAATAGGCAAA - AGGCGA - CGTCCACGAGTCCATGTCATGACACACCCCCAAGTTGCTGTAA AAATAGGCAAA - AGGCGA - CGTCCACGAGTCCATGTCATGACACACCCCCAAGTTGCTGTAA GAGACGACGGCCAGGTGAGCGACCTTAGATACAGGGTGGTTGTGATCTGGTTGTGCTCTAT GAGACGACGGCCAGGTGAGCGACCTTAGATACAGGGTGGTTGTGATCTGGTTGTGCTCTAT CAGCCAGAAGACTCTTCTATCCTCTTAGATACAGGGTGGTTGTGATCTGGTTGTGCTCTAT CAGCCAGAAGACTCTTCTATCCTCTTAATTTGACAGAATAATCCCAGATCTAATAAAAAA-CAC CAGCCAGAAGACTCTTCTATCCTCTTAATTTGACAGAATAATCCCAGATCTAATAAAAAA-CAC CAGCCAGAAGACTCTTCTATCCTCTTAATTTGACAGAATAATCCCAGATCTAATAAAAAAA-CAC CAGCCAGAAGACTCTTCTATCCTCTTAATTTGACAGAATAATCCCAGATCTAATAAAAAA-CAC CAGCCAGAAGACTCTTCTATCCTCTTAATTTGACAGAATAATCCCAGATCTAATAAAAAA-CAC CAGCCAGAAGACTCTCCAGCACCGCTCCGAACCTTCTCCCTCCTCACGAAGCTCACCGCGAAGCCCG GGCCGCGCGCGCGCAACTCCCCGCACCCGCCTCCGAACCTTCTCCCTCC	0 7700 3377 795 795 795 795 795 785 785 785 785 785 785 785 785 785 735 735 735 735 735 735 735
Loc_os01g51690_pW26 H289702_pW26 T3056296_pW26 Loc_os01g53260_pW23 H1961965_pW23 Loc_os06g44010_pW28 H1976995_pW28 T3063501_pW28 Loc_os05g46020_pW07 H200561_pW07 T3066720_pW07 H2003518_pW64 T3095730_pW64 Loc_os12g02450_pW64 Loc_os12g02450_pW64 Loc_os01g40260_pW77 T3097007_pW77 H1950043_pW77 Loc_os09g25070_pW62 H1972014_pW62p T3091546_pW62	780 790 800 810 820 830 84 ANATAGGCAAA - AGGCGA - CGTCCACGAGTCCATGTCATGACACACCCCAAGTTGCTGTAA ANATAGGCAAA - AGGCGA - CGTCCACGAGTCCATGTCATGACACACCCCAAGTTGCTGTAA ANATAGGCAAA - AGGCGA - CGTCCACGAGTCCATGTCATGACACACCCCAAGTTGCTGTAA AAATAGGCAAA - AGGCGA - CGTCCACGAGTCCATGTCATGACACACCCCCAAGTTGCTGTAAA GAGACGACGGCGAGGTGAGCGACCTTAGATACAGGGTGGTTGTGATCTGGTTGTGCTCTAT GAGACGACGGCCAGGTGAGCGACCTTAGATACAGGGTGGTTGTGATCTGGTTGTGCTCTAT CAGCCAGAAGACTCTTCTATCCTCTTAGATACAGGGTGGTTGTGATCTGGTTGTGCTCTAT CAGCCAGAAGACTCTTCTATCCTCTTAATTTGACAGAATAATCCCAGATCTAATAAAAAA-CAC CAGCCAGAAGACTCTTCTATCCTCTTAATTTGACAGAATAATCCCAGATCTAATAAAAAAA-CAC CAGCCAGAAGACTCTTCTATCCTCTTAATTTGACAGAATAATCCCAGATCTAATAAAAAAACAC CAGCCAGAAGACTCTTCATCCTCTTAATTTGACAGAATAATCCCAGATCTAATAAAAAAACAC CAGCCAGAAGACTCTTCTATCCTCTTAATTTGACAGAATAATCCCAGATCTAATAAAAAAACAC CAGCCAGAAGACTCTTCATCCTCTTAATTTGACAGAATAATCCCAGATCTAATAAAAAAACAC CAGCCAGAAGACTCTTCATCTCTTATCTTCTTAATTTGACAGAATAATCCCAGATCTAATAAAAAAACAC CAGCCAGAAGACTCTTCATCCTCTTAATTTGACAGAATAATCCCAGATCTAATAAAAAAAACAC GGCCGCGCGCGCGCAACTCCCCGCCCCCCCCCCCAACCCGCGAACCTCCCACTGCCGAACCTCCCCCCCC	0 3377 785 795 795 795 795 795 785 785 785 785 785 785 785 785 785 735 735 735 735 738 735 735 738 735 735 737 738 735 735 735 737 738 735 737 737 737 737 737 737 737 737 737
Loc_os01g51690_pW26 H289702_pW26 T3056296_pW26 Loc_os01g53260_pW23 H1961965_pW23 T3027906_pW23 Loc_os06g44010_pW28 H1976995_pW28 T3063501_pW28 Loc_os05g46020_pW07 H2000561_pW07 T3066720_pW07 H2023318_pW64 Loc_os12g02450_pW64 Loc_os01g40260_pW77 T3097007_pW77 H1950043_pW77 Loc_os09g25070_pW62 H1972014_pW62p T3091546_pW62 Loc_os05g39720_pW70	780 790 800 810 820 830 84 ANATAGGCAAA - AGGCGA - CGTCCACGACTCCATGTCATGACACACCCCAAGTTGCTGTAA ANATAGGCAAA - AGGCGA - CGTCCACGACTCCATGTCATGACACACCCCAAGTTGCTGTAA ANATAGGCAAA - AGGCGA - CGTCCACGAGTCCATGTCATGACACACCCCAAGTTGCTGTAA ANATAGGCAAA - AGGCGA - CGTCCACGAGTCCATGTCATGACACACCCCCAAGTTGCTGTAAA AAATAGGCAAA - AGGCGA - CGTCCACGAGTCCATGTCATGTCATGTATGACACACACCCCCAAGTTGCTGTAT GACACGACGGCCAGGTGACCGACCTTAGATACAGGGTGGTTGTGATCTGGTTGTGCTCTAT GAGACGACGGCCAGGTGAGCGACCTTAGATACAGGGTGGTTGTGATCTGGTTGTGCTCTAT CAGCCAGAAGACTCTTCTATCCTCTTAATTTGACAGAATAATCCCAGATCTAATAAAAAA - CAC CAGCCAGAAGACTCTTCTATCCTCTTAATTTGACAGAATAATCCCAGATCTAATAAAAAAA - CAC CAGCCAGAAGACTCTTCTATCCTCTTAATTTGACAGAATAATCCCAGATCTAATAAAAAAA - CAC CAGCCAGAAGACTCTTCTATCCTCTTAATTTGACAGAATAATCCCAGATCTAATAAAAAAA - CAC CAGCCAGAAGACTCTTCTATCCTCTTAATTTGACAGAATAATCCCAGATCTAATAAAAAAACAC CAGCCAGAAGACTCCTCTTATCCTCTTAATTTGACAGAATAATCCCAGATCTAATAAAAAAAACAC CAGCCAGAAGACTCTTCTATCCTCTTAATTTGACAGAATAATCCCAGATCTAATAAAAAAAACAC CAGCCCAGAAGACTCCCCCACCCGCCCCCAACATATCCAGAACCTCACCGCGAAGCTCACCGCGAACCTCCCCGCAACCCGCGCGCG	0 3377 7855 7955 7955 7955 7955 7955 7855 78
Loc_os01g51690_pW26 H289702_pW26 T3056296_pW26 Loc_os01g53260_pW23 H1961965_pW23 T3027906_pW23 Loc_os0644010_pW28 H1976995_pW28 Loc_os05g46020_pW07 H200561_pW07 T3066720_pW07 H200318_pW64 Loc_os12g02450_pW64 Loc_os12g02450_pW64 Loc_os01g40260_pW77 T3097007_pW77 H1950043_pW77 Loc_os09g25070_pW62 H1972014_pW62p T3091546_pW62 Loc_os05g39720_pW70 H334389_pW70	780 790 800 810 820 830 84 ANATAGGCAAA AGGCGA CGTCCACGACCCATGTCATGACACACCCCAAGTTGCTGTAAA ANATAGGCAAA AGGCGA CGTCCACGACTCCATGTCATGACACACCCCCAAGTTGCTGTAAA AAATAGGCAAA AGGCGA CGTCCACGACTCCATGTCATGACACACCCCCAAGTTGCTGTAAA AAATAGGCAAA AGGCGA CGTCCACGACTCCATGTCATGACACACCCCCAAGTTGCTGTAAA GAGACGACGGCCAGGTGACCGACCTTAGATACAGGGTGGTTGTGATCTGGTTGTGCTCTAT GAGACGACGGCCAGGTGACCGACCTTAGATACAGGGTGGTTGTGATCTGGTTGTGCTCTAT CAGCCAGAAGACTCTTCTATCCTCTTAATTGACAGAATAATCCCAGATCTAATAAAAAA-CAC CAGCCAGAAGACTCTTCTATCCTCTTAATTGACAGAATAATCCCAGATCTAATAAAAAA-CAC CAGCCAGAAGACTCTTCTATCCTCTTAATTTGACAGAATAATCCCAGATCTAATAAAAAA-CAC CAGCCGCGCGCGCGCAACTCCCCGCACCGCTCCGAACCTTCTCCCTCTCACGAAGCTCACCGCGAAGCCG GGCGCGCGCGCGCGCGCAACTCCCCGCACCGCCCCCGCTCCGAACCTCCCCCCCACGAAGCCG GGCGCGCCGCGCGCGCAACTCCCCGCACCGCTCCGAACCTTCTCCCTCC	0 3377 785 795 795 768 768 768 768 768 768 768 785 785 735 775 7778 735 7778 735 778 778 735 778 778 777 735 775 775 757
Loc_os01g51690_pW26 H289702_pW26 T3056296_pW26 Loc_os01g53260_pW23 H1961965_pW23 T3027906_pW23 Loc_os06g44010_pW28 H1976995_pW28 Loc_os05g46020_pW07 H200561_pW07 T3066720_pW07 H2002318_pW64 T3095730_pW64 Loc_os01g40260_pW77 T3097007_pW77 H1950043_pW77 Loc_os09g25070_pW62 H1972014_pW62p T3091546_pW62 Loc_os05g39720_pW70 T3094952_pW70	780 790 800 810 820 830 84 ANATAGGCAAA AGGCGA CGTCCACGAGTCCATGTCATGACACACCCCAAGTTGCTGTAA ANATAGGCAAA AGGCGA CGTCCACGAGTCCATGTCATGACACACCCCCAAGTTGCTGTAA ANATAGGCAAA AGGCGA CGTCCACGAGTCCATGTCATGACACACCCCCAAGTTGCTGTAA AAATAGGCAAA AGGCGA CGTCCACGAGTCCATGTCATGACACACCCCCAAGTTGCTGTAA AAATAGGCAAA AGGCGA CGTCCTACGAGTCCATGTCATGACACACCCCCAAGTTGCTCTAT GAGACGACGGCGAGGTGAGCGACCTTAGATACAGGGTGGTTGTGATCTGGTTGTGCTCTAT GAGACGACGGCCAGGTGAGCGACCTTAGATACAGGGTGGTTGTGATCTGGTTGTGCTCTAT GACGCACGGCCAGGTGAGCGACCTTAGATACAGGGTGGTTGTGATCTGGTTGTGCTCTAT CAGCCAGAAGACTCTTCTATCCTCTTAATTGCAGAATAATCCCAGATCTAATAAAAAA-CAC CAGCCAGAAGACTCTTCTATCCTCTTAATTGCAGAATAATCCCAGATCTAATAAAAAA-CAC CAGCCAGAAGACTCTCCAGCACCGCCCCGCTCCGAACCTTCTCCCTCC	0 3377 795 795 795 795 795 795 785 785 785 785 785 778 778 777 736 777 736 777 735 7778 778 778 778 777 757 757
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Loc_os01g51690_pW26 H289702_pW26 T3056296_pW26 Loc_os01g53260_pW23 H1961965_pW23 T3027906_pW23 Loc_os06g44010_pW28 H1976995_pW28 Loc_os05g46020_pW07 H200561_pW07 T3066720_pW07 H2002318_pW64 T3095730_pW64 Loc_os01g40260_pW77 T3097007_pW77 H1950043_pW77 Loc_os09g25070_pW62 H1972014_pW62p T3091546_pW62 Loc_os05g39720_pW70 H334389_pW70 T3094952_pW70 Loc_os05g45230_pW58 H1850565_pW58p T3075919_pW58 Loc_os03g21710_pW79 H1952278_pW79 T3070072_pW79	780 790 800 810 820 830 844 AAATAG GCAAA - AGGCGA - CGTCC ACGAGTCCATGTCATGA CACACCCCAAGTTGCTGTAA AAATAG GCAAA - AGGCGA - CGTCC ACGAGTCCATGTCATGA CACACCCCAAGTTGCTGTAA AAATAG GCAAA - AGGCGA - CGTCC ACGAGTCCATGTCATGA CACACCCCAAGTTGCTGTAA GAGACG ACGGGCAGGTGAGCGACC TTAGATACAGGGTGGTT GTGATCTGGTTGTGCTCTAT GAGACG ACGGGCAGGTGAGCGACC TTAGATACAGGGTGGTT GTGATCTGGTTGTGCTCTAT GAGACG ACGGGCAGGTGAGCGACC TTAGATACAGGGTGGTT GTGATCTGGTTGTGCTCTAT CAGCCA GAAGACTCTTCTATCCTC TTAATTTGACAGAATAATCCCCAGATCTAATAAAAAA -CAC CAGCCA GAAGACTCTTCTATCCTC TTAATTTGACAGAATAATCCCCAGATCTAATAAAAAA-CAC CAGCCG GAAGACTCTTCTATCCTC TTAATTGACAGAATAATCCCCAGAGCTCACCGCGAAGCCG CAGCCA GAAGACTCTTCTATCCTC TTAATTGACAGAATAATCCCCAGAGCTACCGCGAAGCCG CAGCCGCGCGCGCGCGCCGCCCCGCCCCGCTCCGAACCTCCCCCACAGCTCACCGCGAAGCCG GGCGCGCGCGCGCGCGCGCCCCCGCCCCCCCCCCCCC	0 3377 795 795 795 795 795 785 785 785 785 785 785 778 778 778 77
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Loc_os01g51690_pW26 H289702_pW26 T3056296_pW26 Loc_os01g53260_pW23 H1961965_pW23 T3027906_pW23 Loc_os06g44010_pW28 H1976995_pW28 Loc_os05g46020_pW07 H2000561_pW07 H2000561_pW07 H2023318_pW64 T3095730_pW64 Loc_os12g02450_pW64 Loc_os12g02450_pW64 Loc_os01g40260_pW77 T3097007_pW77 H1950043_pW77 Loc_os09g25070_pW62 H1972014_pW62p T3091546_pW62 Loc_os05g45230_pW70 H334389_pW70 T309452_pW70 Loc_os05g45230_pW58 H1850565_pW58p T3075919_pW58 Loc_os05g45230_pW79 H1952278_pW79 T3070072_pW79 Loc_os05g49620_pW19 H2014700_pW19	780 790 800 810 820 830 844 ANATAG GCAAA - AGGCGA - CGTCC ACGAGTCCATGTCATGA CACACCCCAAGTTGCTGTAA ANATAG GCAAA - AGGCGA - CGTCC ACGAGTCCATGTCATGA CACACCCCAAGTTGCTGTAA ANATAG GCAAA - AGGCGA - CGTCC ACGAGTCCATGTCATGT CACACCCCAAGTTGCTGTAA AAATAG GCAAA - AGGCGA - CGTCC TTAGATACAGGTGGTT GTGATCTGGTTGTGCTCTAT GAGACG ACGGCCAGGTGAGCGACC TTAGATACAGGTGGTT GTGATCTGGTTGTGCTCTAT CAGCCA GAAGACTCTTCTATCCTC TTAATTGACAGATAATCCCAGACTTAATAAAAAA - CAC CAGCCA GAAGACTCTTCTATCCTC TTAATTGACAGAATAATCCCAGACTTAATAAAAAAACAC CAGCCA GAAGACTCTTCTATCCTC TTAATTGACAGAATAATCCCAGACTCACGCGGAAGCCC CAGCCA GAAGACTCTTCTATCCTC TTAATTGACAGAATAATCCCAGACTCACGCGAAGCCC CAGCCA GAAGACTCTTCTATCCTC TTAATTGACAGAATAATCCCAGACTCACGCGAAGCCC CAGCCA GAAGACTCTTCCCCCCCCCCCCCCCCCCCCCCCCAGACCCCCCCC	0 3377 795 795 795 795 795 785 785 785 785 785 785 785 785 735 735 735 735 757 757 755 755 775 755 775 755 775 775 755 775
Loc_os01g51690_pW26 H289702_pW26 T3056296_pW26 Loc_os01g53260_pW23 H1961965_pW23 T3027906_pW23 Loc_os06g44010_pW28 H1976995_pW28 T3063501_pW28 Loc_os05g46020_pW07 H2003561_pW07 T3066720_pW07 H2003511_pW64 Loc_os01g40260_pW77 T3097730_pW64 Loc_os01g40260_pW77 T309707_pW77 H1950043_pW77 Loc_os05g25070_pW62 H1972014_pW62p T3091546_pW62 Loc_os05g39720_pW70 H334389_pW70 T3094952_pW70 Loc_os05g45230_pW58 H1850565_pW58p T3075919_pW58 Loc_os03g21710_pW79 H1952278_pW79 T307072_pW79 Loc_os05g49620_pW19 H2014700_pW19 T3058779_pW19	780 790 800 810 820 830 84 ANATAGGCANA-AGGCGA-CGTCCACGAGTCCATGTCATGACACACCCCAAGTTGCTGTAA ANATAGGCANA-AGGCGA-CGTCCACGAGTCCATGTCATGACACACCCCAAGTTGCTGTAA ANATAGGCANA-AGGCGA-CGTCCACGAGTCCATGTCATGACACACCCCAAGTTGCTGTAA ANATAGGCANA-AGGCGA-CGTCCACGAGTCCATGTCATGACACACCCCCAAGTTGCTGTGTGTCTCTT GAGACGACGGGCAGGTGAGCGACCTTAGATACAGGGTGGTTGTGATCTGGTTGTGCTCTAT GAGACGACGGGCAGGTGAGCGACCTTAGATACAGGGTGGTTGTGATCTGGTTGTGCTCTAT GAGACGGAGACTCTTCTTCTTCTTCTTCTTAATTGACAGAATAATCCCAGATCTAATAAAAAA-CAC CAGCCAGAAGACTCTTCTATCCTCTTAATTGACAGAATAATCCCAGATCTAATAAAAAA-CAC CGGCGCGGCGGCAACTCCCGCACCCGCTCCGAACCTTCTCCCCTCCTCACGAAGCTCACCGCGAAGCCG GGGCGCGCGCGCGCAACTCCCGCACCCGCTCCGAACCTTCTCCCCTCCTCACGAAGCTCACCGCGAAGCCG GGCGCGCGCGCGCGCAACTCCCGCACCCGCTCCGAACCTTCTCCCCTCCTCACGAAGCTCACCGCGAAGCCG GGCGCGCGCGCGCGCAACTCCCGCACCGCCCCGGACCTTCTCCCCTCCTCACGAAGCTCACCGCGAAGCCG GGCGCGCGCGCGCGCGCGCGCGCGCGCCGCCGCCAAGCTGCCCGCGAAGCCGCGAACTGCCG GGCGCGCGCGCGCGCGCGCGCGCGCCGCCGCCCACCATATGAACAGCACGGAACCTGCTG GGCGCGCGCGCGCGCGCCGCCGCGCGCGCGCGCGCGCG	0 7770 3377 7955 7955 7955 7855 7855 7855 7855 7855 7855 7775 7775 7775 7775 7775 775
Loc_os01g51690_pW26 H289702_pW26 T3056296_pW26 Loc_os01g53260_pW23 H1961965_pW23 T3027906_pW23 Loc_os06g44010_pW28 H1976995_pW28 T3063501_pW28 Loc_os05g46020_pW07 H200351_pW07 T3066720_pW07 H200351_pW64 Loc_os12g02450_pW64 Loc_os12g02450_pW64 Loc_os01g40260_pW77 T3097007_pW77 H1950043_pW77 Loc_os09g25070_pW62 H1972014_pW62p T3091546_pW62 Loc_os05g39720_pW70 H334389_pW70 T3094952_pW70 Loc_os05g45230_pW58 H1850565_pW58p T3075919_pW58 Loc_os03g21710_pW79 H1952278_pW79 T3070072_pW79 Loc_os05g49620_pW19 H2014700_pW19 T3058779_pW19 Loc_os09g25060_pW76	780 790 800 810 820 830 84 ANATAGGCANA-AGGCGA-CGTCCACGAGTCCATGTCATGACACACCCCAAGTTGCTGTAN ANATAGGCANA-AGGCGA-CGTCCACGAGTCCATGTCATGACACACCCCAAGTTGCTGTAN ANATAGGCANA-AGGCGA-CGTCCACGAGTCCATGTCATGACACACCCCCAAGTTGCTGTAN ANATAGGCANA-AGGCGA-CGTCCACGAGTCCATGTCATGACACACCCCCAAGTTGCTGTGTGTGCTCTAT GAGACGACGGGCAGGTGAGCGACCTTAGATACAGGGTGGTGTGATCTGGTTGTGCTCTAT GAGACGACGGGCAGGTGAGCGACCTTAGATACAGGGTGGTGTGATCTGGTCTGATCGGTGTAT GAGACGGAAGACTCTTCTATCCTCTTAATTTGACAGAATAATCCCAGATCTAATAAAAAA-CAC CAGCCAGAAGACTCTTCTATCCTCTTAATTTGACAGAATAATCCCAGATCTAATAAAAAAACAC GGCGCGCGGCGAACTCCCGCACCCGCTCCGAACCTTCTCCCTCC	0 7700 3377 7955 7955 7955 7855 7855 7855 7855 78

Т3076120_рW76 H1974322_рW76р

	850 860 870 880 890 900 91	0
LOC 0s01g51690 pW26	GTGGCAGGGCCGTGCGGGCATCAAAGCAAAACAATTCGAAA-CGGGGCGGCTCGCG-CACGGTCG	834
H289702_pW26	GTGGCAGGGCCGTGCGGGGCATCAAAGCAAAACAATTCGAAA-CGGGGGCGGCTCGCG-CACGGTCG	401
T3056296_pW26	GTGGCACGGCCGCGCGGGGCATCAAAGCAAAACAATTCGAAA-CGGGGCGGCTCGCG-CACGGTCG	849
LOC_Os01g53260_pW23	CTCTCGCCCTCTCCCAATCTCCATCTCTCTGTCTGATT-TGTAATCTTTTCCCTTGGCTT	855
H1961965_pW23	CTCTCGCCCTCTCTCCAATCTCCATCTCTCTGTCTGATT-TGTAATCTTTTCCCTTGGCTT	855
LOC Os06q44010 pW28	AGTTTAATCCTCCTTATTTTCTAAAATGAAAATAGTAGTACT-ACTACTAATTATCATCACAAATG	; 740
H1976995_pW28	AGTTTAATCCTCCTTATTTTCTAAAATGAAAATAGTAGTACT-ACTACTAATTATCATCACAAATG	833
T3063501_pW28	AGTTTAATCCTCCTTATTTTCTAAAATGAAAATAGTAGTACT-ACTACTAATTATCATCACAAATG	833
LOC_Os05g46020_pW07		848
T3066720 pW07	GCAAAATCCTCCCGGAGAGAGAGAGAGAGACACAAACACAACACAACC-AGCTCCCCCGCGCCCCGCGCGCGCGCGCGCGCGCGCGCG	848
H2023318_pW64	ACACCATCATCGCGTGTATATATAGCCACATTAAAGTA-GGCACCAATCAAGTACACACTTC	693
T3095730_pW64	ACACCATCATCGCGTGTATATATAGCCACATTAAAGTA-GGCACCAATCAAGTACACACTTC	560
LOC_Os12g02450_pW64	AQACGCACCATCATCCTGCATATC-TCGTTTAATTGTGTATATATATAGCCACATTAAAGTACACACATTG	846
T3097007 pW77	CCGGGATCGAGACGTGCGTGTATGT-GCTACTGCTGCATGCGGCGATGTTTCCTGCCGCGATTTTCCAGC	804
H1950043 pW77	CCGGGATCGAGACGTGCGTGTATGT-GCTACTGCTGCATGCGGCGATGTTTCCTGCCGCGATTTTCCAGG	804
LOC_Os09g25070_pW62	TCGTAGTGAGCACAATCGGTCAAGTCAATGGGGGGGAGAATGCCAAAATCTCCTTTGTGGGGCTTAATTTATA	848
H1972014_pW62p	TCGTAGTGAGCACAATCGGTCAAGTCAATGGGGGGGAGAATGCCCAAAATCTCCTTTGTGGGGCTTAATTTATA	848
13091546_pw62	TCGTAGTGAGCACAATCGGTCAAGTCAATGGAGGAGAATGCCAAAATCTCCTTTGTGGGCTTAATTTATA TCCCA_TTGCTGCGCTCCCAATGGAGGAGCATGCCGCCCCCCCCCC	848
H334389 pW70	TCCCA-TTGGTGGGTGCGAATA-GTCCACAGCAGCATGCGGGGTCGCAGCCCGCCAGTCAAACC	819
T3094952_pW70	TCCCA-TTGGTGGGTGCGAATA-GTCCACAGCAGCATGCGGGGTCGCAGCCCGCCAGTCAAACC	819
LOC_Os05g45230_pW58	ACAGT-TTGAGACGCGGGAGAG-GT-G-AAGGCAGCTTGCCCACCCCAC	838
H1850565_pW58p	ACAGT-TTGAGACGCGGGGGGGGGGGGGGGGGGGC-G-AAGGCAGCTTGCACGCTTGCCCCCCCCCC	838
LOC Os03g21710 pW79	TCGGGAACCGGGACCCACCTCCGCTCTTCCATGCAGCTTCCTCATTT-TAGCCTTTTTCCGAGTTCCGAC	842
H1952278_pW79	TCGGGAACCGGGACCCACCTCCGCTCTTCCATGCAGCTTCCTCATTT-TAGCCTTTTTCCGAGTTCCGAC	842
T3070072_pW79	TCGGGAACCGGGACCCACCTCCGCTCTTCCATGCAGCTTCCTCATTT-TAGCCTTTTTCCGAGTTCCGAC	842
LOC_Os05g49620_pW19	TCCAAGTGTTTGAATGACACTCGGGTAGTGATATTCTCTCGCTTAGTCATAATCTTTTCCCTCGGTCCGGT	846
T3058779 pW19	TCCAAGTGTTTGAATGACACTCGGGTAGTGATATTCTCTGCTTAGTCATAATCTTTTCCCTCGGTCCGGT	842
LOC_Os09g25060_pW76	CCACT-CAATTGCGTTACAGTTTTCTCCCCACAGATCCATGCAAATTAAAGATCACACGGTCTCGTTCTCC	855
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H1974322_pW76p	NNNNN-NNNNNNNNNNNNNNNNNCCCACAGATCCATGCAAATTAAAGATCACACGGTCTCGTTCTCC	855
	920 930 940 950 960 970 98	
	920 930 940 950 960 970 98 	0
LOC_Os01g51690_pW26	920 930 940 950 960 970 98 	903
LOC_Os01g51690_pW26 H289702_pW26 T3056296_pW26	920 930 940 950 960 970 98 	903 470
LOC_Os01g51690_pW26 H289702_pW26 T3056296_pW26 LOC Os01g53260 pW23	920 930 940 950 960 970 98 	903 470 918 920
LOC_Os01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_Os01g53260_pW23 H1961965_pW23	920 930 940 950 960 970 98 	903 470 918 920 920
LOC_0s01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_0s01g53260_pW23 H1961965_pW23 T3027906_pW23	920 930 940 950 960 970 98 CGCCGCGCGAAGCTTCATCCAACGACTCGAGCCAGGAAGCTCGGTGCGAAGCCCA-CCGACGTCGCCCGC CGCCGCCGCAGAGCTTCATCCAACGACTCGAGCCAGGAAGCTCGGTGCGAAGCCCA-CCGACGTCGCCCGC CGCCGCCGCGAGCTTCATCCAACGACTCGAGCCAGGAAGCTCGGTGCGAAGCCCA-CCGACGTCGCCCGC CGCGCGCCGAGCTTCATCCAACGACTCGAGCCAGGAAGCTCGGTGCGAAGCCCA-CCGACGTCGCCCGC TGAGCGTGCACGCTT-GCCCAACTTCCCCTTGGCTTCTAGCGTCTTATTCCA-CACGCGCACTCCAC TGAGCGTGCACGCTT-GCCCAACTTCCCCTTGGCTTCTAGCGTCTTATTCCA-CACGCGCACTCCAC TGAGCGTGCACGCTT-GCCCAACTTCCCCTTGGCTTCTAGCGTCTTATTCCA-CACGCGCACTCCAC	903 470 918 920 920 920
LOC_0s01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_0s01g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_0s06g40010_pW28 H1976085_pW28	920 930 940 950 960 970 98 	903 470 918 920 920 920 810
LOC_OSO1g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OSO1g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_OSO6g44010_pW28 H1976995_pW28 T3063501_pW28	920 930 940 950 960 970 98 	903 470 918 920 920 920 810 903 903
LOC_0s01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_0s01g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_0s06g44010_pW28 H1976995_pW28 T3063501_pW28 LOC_0s05g46020_pW07	920 930 940 950 960 970 98 	903 470 918 920 920 920 920 810 903 903 903
LOC_0s01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_0s01g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_0s06g44010_pW28 H1976995_pW28 T3063501_pW28 LOC_0s05g46020_pW07 H2000561_pW07	920 930 940 950 960 970 98 	903 470 918 920 920 920 810 903 903 903 918
LOC_0s01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_0s01g53260_pW23 H1961965_pW23 LOC_0s06g44010_pW28 H1976995_pW28 T3063501_pW28 LOC_0s05g46020_pW07 H2000561_pW07 T3066720_pW07	920 930 940 950 960 970 98 	903 470 918 920 920 810 920 810 903 903 918 918 918 918
LOC_OSO1g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OSO1g53260_pW23 H1961965_pW23 LOC_OSO6g44010_pW28 H1976995_pW28 T3063501_pW28 LOC_OSO5g46020_pW07 H2000561_pW07 T3066720_pW07 H2023318_pW64 T3095730_pW64	920 930 940 950 960 970 98 	903 470 918 920 920 920 920 920 920 920 920 920 918 918 918 918 918 918 918
LOC_OSO1g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OSO1g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_OSO6g44010_pW28 H1976995_pW28 T3063501_pW28 LOC_OS05g46020_pW07 H2000561_pW07 H2000561_pW07 H2023318_pW64 T3095730_pW64 LOC_OS12g02450_pW64	920 930 940 950 950 960 970 98 	903 470 918 920 920 920 920 810 903 903 903 918 918 918 918 918 918 918 918 918 918
LOC_OsO1g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OSO1g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_OSO6g44010_pW28 H1976995_pW28 T3063501_pW28 LOC_OS05g46020_pW07 H200561_pW07 T3066720_pW07 H2023318_pW64 T3095730_pW64 LOC_OS12g02450_pW64 LOC_OS01g40260_pW77	920 930 940 950 960 970 98 	903 470 918 920 920 920 920 920 918 918 918 918 918 918 918 918 918 918
LOC_OSO1g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OSO1g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_OSO6g44010_pW28 H1976995_pW28 T3063501_pW28 LOC_OSO5g46020_pW07 H2000561_pW07 T3066720_pW07 H2023318_pW64 T3095730_pW64 LOC_OS12g02450_pW64 LOC_OS01g40260_pW77 T3097007_pW77 H1960042_pW77	920 930 940 950 950 960 970 98 	903 918 920 920 920 920 920 920 920 920 920 918 918 918 918 918 918 918 918 918 918
LOC_OSO1g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OSO1g53260_pW23 H1961965_pW23 LOC_OSO6g44010_pW28 H1976995_pW28 T3063501_pW28 LOC_OSO5g46020_pW07 H200561_pW07 T3066720_pW07 H200561_pW07 H200551_gW64 LOC_OS12g02450_pW64 LOC_OS01g40260_pW77 T3097007_pW77 H1950043_pW77 LOC_OS09g25070_pW62	920 930 940 950 950 960 970 98 	 903 470 918 920 920 920 920 903 918 913 872 872 915
LOC_0s01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_0s01g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_0s06g44010_pW28 H1976995_pW28 T3063501_pW28 LOC_0s05g46020_pW07 H200561_pW07 T3066720_pW07 H200561_pW07 H2003518_pW64 LOC_0s01g40260_pW77 T3097007_pW77 H1950043_pW77 LOC_0s09g25070_pW62 H1972014_pW62p	920 930 940 950 950 960 970 98 	<pre>903 903 903 903 903 903 903 903 903 903</pre>
LOC_0s01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_0s01g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_0s06g44010_pW28 H1976995_pW28 LOC_0s05g46020_pW07 H2000561_pW07 T3066720_pW07 H2003518_pW64 LOC_0s12g02450_pW64 LOC_0s01g40260_pW77 T3097007_pW77 H1950043_pW77 LOC_0s09g25070_pW62 H1972014_pW62p T3091546_pW62	920 930 940 950 950 960 970 98 	 903 4700 918 920 9200 9200 9200 9033 918 915 915 915 915
LOC_0s01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_0s01g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_0s06g44010_pW28 H1976995_pW28 T3063501_pW28 LOC_0s05g46020_pW07 H2000561_pW07 T3066720_pW07 H2023318_pW64 T3095730_pW64 LOC_0s12g02450_pW64 LOC_0s01g40260_pW77 T3097007_pW77 H1950043_pW77 LOC_0s09g25070_pW62 H1972014_pW62p T3091546_pW62 LOC_0s05g39720_pW70	920 930 940 950 950 960 970 98 	<pre>9 903 9 470 0 9 918 9 920 9 923 9 928 9 929 9 928 9 929 9 929 9 9 9</pre>
LOC_OSO1g51690_pW26 H289702_pW26 T3056296_pW26 LOC_OSO1g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_OSO6g44010_pW28 H1976995_pW28 LOC_OSO5g46020_pW07 H2000561_pW07 T3066720_pW07 H2023318_pW64 T3095730_pW64 LOC_OS12g02450_pW64 LOC_OS12g02450_pW64 LOC_OS01g40260_pW77 T3097007_pW77 H1950043_pW77 LOC_OS09g25070_pW62 H1972014_pW62p T3091546_pW62 LOC_OS05g39720_pW70 H334389_pW70 T3094952_pW70	920 930 940 950 950 960 970 98 	<pre> 903 903 470 918 920 920 920 920 920 903 918 918 918 918 918 918 918 918 918 918 918 918 918 918 919 918 919 918 919 918 919 918 919 918 919 91</pre>
LOC_0s01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_0s01g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_0s06g44010_pW28 H1976995_pW28 T3063501_pW28 LOC_0s05g46020_pW07 H2000561_pW07 T3066720_pW07 H2023318_pW64 T3095730_pW64 LOC_0s1g40260_pW77 H1950043_pW77 LOC_0s01g40260_pW77 H1950043_pW77 LOC_0s09g25070_pW62 H1972014_pW62p T3091546_pW62 LOC_0s05g39720_pW70 H334389_pW70 T3094952_pW70 LOC_0s05g45230_pW58	920 930 940 950 950 960 970 98 	<pre>9 903 9 903 9 918 9 920 9 903 9 903 9 903 9 915 9 915 9 883 9 883 2 883 2 883 2 883 2 900</pre>
LOC_0s01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_0s01g53260_pW23 H1961965_pW23 LOC_0s06g44010_pW28 H1976995_pW28 T3063501_pW28 LOC_0s05g46020_pW07 H2000561_pW07 T3066720_pW07 H2023318_pW64 T3095730_pW64 LOC_0s01g40260_pW77 H1950043_pW77 LOC_0s09g25070_pW62 H1972014_pW62p T3091546_pW62 LOC_0s05g39720_pW70 H334389_pW70 T3094952_pW70 LOC_0s05g45230_pW58 H1850565_pW58p	920 930 940 950 960 970 98 	 903 4700 918 920 9200 9200 9200 9200 9200 9033 918 9135 812 915 8833 8833 900 900
LOC_0s01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_0s01g53260_pW23 H1961965_pW23 LOC_0s06g44010_pW28 H1976995_pW28 T3063501_pW28 LOC_0s05g46020_pW07 H2000561_pW07 T3066720_pW07 H2023318_pW64 T3095730_pW64 LOC_0s01g40260_pW77 H1950043_pW77 LOC_0s09g25070_pW62 H1972014_pW62p T3091546_pW62 LOC_0s05g39720_pW70 H334389_pW70 T3094952_pW70 LOC_0s05g45230_pW58 H1850565_pW58p T3075919_pW58	920 930 940 950 960 970 950 970 950 970 950 970 950 970 950 970 950 970 950 970 950 970 950 970 970 970 970 970 970 970 970 970 97	 903 4700 918 920 9203 9203 9203 918 9033 918 9033 918 9033 918 9033 918 9033 918 9033 918 9191 9191 8733 8722 9152 915
LOC_0s01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_0s01g53260_pW23 H1961965_pW23 LOC_0s06g44010_pW28 H1976995_pW28 T3063501_pW28 LOC_0s05g46020_pW07 H2000561_pW07 T3066720_pW07 H2003518_pW64 T3095730_pW64 LOC_0s01g40260_pW77 T3097007_pW77 H1950043_pW77 LOC_0s09g25070_pW62 H1972014_pW62p T3091546_pW62 LOC_0s05g39720_pW70 H334389_pW70 T3094952_pW70 LOC_0s05g45230_pW58 H1850565_pW58p T3075919_pW58 LOC_0s03g21710_pW79 H195278_pW70	920 930 940 950 950 950 970 970 970 970 970 970 970 970 970 97	 903 4700 918 920 9200 9200 9200 9200 9200 9200 9203 913 918 918 918 918 918 918 913 8733 8722 9155
LOC_0s01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_0s01g53260_pW23 H1961965_pW23 LOC_0s06g44010_pW28 H1976995_pW28 T3063501_pW28 LOC_0s05g46020_pW07 H2000561_pW07 T3066720_pW07 H200318_pW64 T3095730_pW64 LOC_0s01g40260_pW77 T3097007_pW77 H1950043_pW77 LOC_0s09g25070_pW62 H1972014_pW62p T3091546_pW62 LOC_0s05g39720_pW70 H334389_pW70 T3094952_pW70 LOC_0s05g45230_pW58 H1850565_pW58p T3075919_pW58 LOC_0s03g21710_pW79 H1952278_pW79	920 930 940 950 950 950 970 970 970 970 970 970 970 970 970 97	<pre>9 903 9 903 9 918 9 920 9 903 9 903 9 918 8 73 9 915 9 915 9 915 9 915 8 883 8 883 8 883 8 883 9 900 9 900 9 911 9 911</pre>
LOC_0s01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_0s01g53260_pW23 H1961965_pW23 LOC_0s06g44010_pW28 H1976995_pW28 T3063501_pW28 LOC_0s05g46020_pW07 H2000561_pW07 T3066720_pW07 H2003318_pW64 T3095730_pW64 LOC_0s01g40260_pW77 T3097007_pW77 H1950043_pW77 LOC_0s09g25070_pW62 H1972014_pW62p T3091546_pW62 LOC_0s05g39720_pW70 H334389_pW70 T3094952_pW70 LOC_0s05g45230_pW58 H1850565_pW58p T3075919_pW58 LOC_0s03g21710_pW79 H1952278_pW79 T3070072_pW79 LOC_0s05g49620_pW19	920 930 940 950 950 960 970 95 	 903 903 4700 918 920 9200 9200 9200 9200 9033 918 917 911 912 912
LOC_0s01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_0s01g53260_pW23 H1961965_pW23 LOC_0s06g44010_pW28 H1976995_pW28 T3063501_pW28 LOC_0s05g46020_pW07 H2000561_pW07 T3066720_pW07 H2003318_pW64 T3095730_pW64 LOC_0s12g02450_pW64 LOC_0s12g02450_pW64 LOC_0s01g40260_pW77 T3097007_pW77 H1950043_pW77 LOC_0s09g25070_pW62 H1972014_pW62p T3091546_pW62 LOC_0s05g39720_pW70 H334389_pW70 T3094952_pW70 LOC_0s05g45230_pW58 H1850565_pW58p T3075919_pW58 LOC_0s03g21710_pW79 H1952278_pW79 T3070072_pW79 LOC_0s05g49620_pW19 H2014700_pW19	920 930 940 950 950 960 970 95 	 903 9033 918 920 9200 9200 9200 9200 9200 9033 9033 9033 9033 9033 9033 918 918 916 913 8733 8722 9155 8833 900 9000 8803 9012 911 912 911 912 911
LOC_0s01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_0s01g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_0s06g44010_pW28 H1976995_pW28 T3063501_pW28 LOC_0s05g46020_pW07 H2000561_pW07 T3066720_pW07 H2003318_pW64 T3095730_pW64 LOC_0s12g02450_pW64 LOC_0s12g02450_pW64 LOC_0s01g40260_pW77 T3097007_pW77 H1950043_pW77 LOC_0s09g25070_pW62 H1972014_pW62p T3091546_pW62 LOC_0s05g39720_pW70 H334389_pW70 T3094952_pW70 LOC_0s05g45230_pW58 H1850565_pW58p T3075919_pW58 LOC_0s05g49620_pW19 H30278_pW79 LOC_0s05g49620_pW19 H2014700_pW19 T3058779_pW19	920 930 940 950 960 970 98 0	 903 9033 918 920 9200 9200 9200 9200 9200 9200 9200 9200 9200 9033 9155 9161 911 912 911 908 921 921 921 921 921 921
LOC_0s01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_0s01g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_0s06g44010_pW28 H1976995_pW28 T3063501_pW28 LOC_0s05g46020_pW07 H200561_pW07 T3066720_pW07 H2003518_pW64 LOC_0s12g02450_pW64 LOC_0s01g40260_pW77 T3097007_pW77 H1950043_pW77 LOC_0s09g25070_pW62 H1972014_pW62p T3091546_pW62 LOC_0s05g39720_pW70 H334389_pW70 T3094952_pW70 LOC_0s05g45230_pW58 H1850565_pW58p T3075919_pW58 LOC_0s05g45230_pW58 H1850565_pW58p T307072_pW79 LOC_0s05g49620_pW19 H1952278_pW79 T3070072_pW79 LOC_0s05g49620_pW19 H2014700_pW19 T3058779_pW19 LOC_0s09g25060_pW76	920 930 940 950 960 970 98 0	 903 4700 918 920 9200 9200 9200 9200 9200 9103 9033 918 918 918 918 918 918 913 8732 8732 8733 8722 9155 915 916 911 911 901 921 921 921 921 921 921 921 921
Loc_os01g51690_pW26 H289702_pW26 T3056296_pW26 Loc_os01g53260_pW23 H1961965_pW23 T3027906_pW23 Loc_os06q44010_pW28 H1976995_pW28 T3063501_pW28 Loc_os05g46020_pW07 H200561_pW07 T3066720_pW07 H2023318_pW64 Loc_os12g02450_pW64 Loc_os12g02450_pW64 Loc_os01g40260_pW77 T3097007_pW77 H1950043_pW77 Loc_os09g25070_pW62 H1972014_pW62p T3091546_pW62 Loc_os05g39720_pW70 H334389_pW70 T3094952_pW70 Loc_os05g45230_pW58 H1850565_pW58p T3075919_pW58 Loc_os05g45230_pW58 H1850565_pW58p T3075919_pW58 Loc_os05g49620_pW19 H1952278_pW79 T3070072_pW79 Loc_os05g49620_pW19 H2014700_pW19 T3058779_pW19 Loc_os09g25060_pW76 T3076120_pW76	920 930 940 950 960 970 95 CCCCCCCCAAGCTCATCCAACGACTCGAGCCAGGAGCTCGGTGCGAAGCCCA-CCGACGTCGCCCCC CCGACCCCA-CCGACGACCCCACGAGCCAGCAGCACCCCA-CCGACGTCGCCCCC CCGCCCCCGAAGCTTCATCCAACGACTCGAGCCAGGAGCTCGGTGCGAAGCCCA-CCGACGTCGCCCCC CGGCGCGCGAAGCTT-GCCCAACTTCCCCTTGGCTTCTAGCGTCTATTCCA-CAGCGCGACTCCAC CAGCGTGCACGCTT-GCCCAACTTCCCCTTGGCTTCTAGCGTCTATTCCA-CAGCGCGACTCCAC ACATGATGATGCTACCTTTAGTCTTTAGCCCTAATTATCCTCCACATGCTGAAATGAAAACCACACTC ACATGATGATGCTACCTTTAGTCTTTAGACCCTAATTATCCTCCCACATGCTGAAATGAAAACCACACTC ACATGATGATGCTACGCTTAGTCTTTAGACCCTAATTATCCTCCACATGCTGAAATGAAAACCACACTC CGATCGATCACGATCGATCCATCCCTCTCGATCGCTACTACTACTACGAGTACAAATCCACCCCGCCACC7 CGATCGATCACGATCGATCCATCCCTCTCGATCGCTACTACTACCAGTACAAATCCACCCCGCCACC7 CGATCGATCACGATCGATCTATCCCTCCGCTCGATCGCTACTACTACCAGTACAAATCCACCCCGCCACC7 CGATCGATCACGATCGATCTACTCCTCCCTCCGATCGCTACTACTACCAGTACAAATCCACCCCGCCACC7 CGATCGATCACGATCGATCCACTGCCACAAAGCCAGGTGATCGTCC	 903 9033 4700 918 9200 9200 9200 9200 9200 9103 9033 918 918 918 918 918 918 8733 8732 8733 8722 9155 9165 911 912 921 921 921 921

	990 1000 1010 1020 1030 104	0 1050
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LOC_0s01g51690_pW26	CCGCCCACGCGCTCTATAAGTAGACGGCTCTTCGGCGCGTGTCACGTAA-GAGAGTCGC	GCCAACCCAC 970
m3056296 pw26	CCCCCCACGCCCTCTATAAGTA-GACGCCTCTTCGGCGCGTGTCACGTAA-GAGAGTCGC CCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	CCAACCCAC 537
LOC Os01g53260 pW23	CTGTTCGATCGATTCACCAGGTATAAAATCGCCGGTAACGTGGCGCGCACGTCCC	GCCGCCTGA 982
H1961965_pW23	CTGTTCGATCGATTCACCAGGT-ATAAAATCGCCGGTAACGTGGCGCACGTCCC	GGCCGCCTGA 982
T3027906_pW23	CTGTTCGATCGATTCACCAGGTATAAAATCGCCGGTAACGTGGCGCACGTCCC	GGCCGCCTGA 982
LOC_0s06g44010_pW28	ACATTAAAAAAATAAACAATTGATGCCTTTTCCGGAGCAGAAATGGTAGTAGTACT	TACTAGTAGT 875
H1976995_pW28	ACATTAAAAAAAAAAAAATAAACAATTGATGCCTTTTCCCGGAGCAGAAATGGTAGTAGTAC	FACTAGTAGT 968
LOC 0s05g46020 pW07	CTACATCATCCCCTCATATCCAT-GCAGATTTAGCGCCCAATCCTTATAAAATACGGAGCTTT	REFRETACTAGE 988
H2000561 pW07	CTACATCATCCCCTCATATCCAT-GCAGATTTAGCGCCAATCCTTATAAATACGGAGCTTT	CGCGCCGGC 987
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H2023318_pW64	TCTTTCCACAACTATCTAGCACCGATTAAGAACAGCAGCTATCTTAATCAGGGAGCT	TTGAGATCTT 826
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LOC_0s12g02450_pw64	TTCTTCCACACTATCTAGCTAGCACCGATTAAGAACAGCAGCTATCTTAATCAGAGAGCT	CACHARATCTT 983
T3097007 bW77	GTCACCGCACGCGCGCGCGCGCGCGCGCGCGCGCGCGCGC	CAGTATACAC 940
H1950043 pW77	GTCACCGCACGCGCGCGTGCAGCATGTCGCCATGCATTCACAGCTACTAGCTACTATA	CAGTATACAC 940
LOC_Os09g25070_pW62	GT-ACGGCGCCACTATAAGAAACGTGCCCTATTGCTGTCACGCCG-TACTTCCTCCCGCCC	CACCGGGCAG 983
H1972014_pW62p	GT-ACGCCCCACTATAAGAAACGTGCCCTATTGCTGTCACGCCG-TACTTCCTCCCGCCC	CACCGGGCAG 983
T3091546_pW62	GT-ACGGCGCCACTATAAGCAACGTGCCCTATTGCTGTCACGCCG-TACTTCCTCCCGCCC	CACCGGGCAG 983
H334389 pW70	GTCGTCGTTGGAAGAAGCAGTAGCCACACCCACACGCACACCCCGA-TCGATCCTGGCATCC	CTACTCTGCT 952
T3094952 pW70	GTCGTCGTTGGAAGAAGCAGTAGCCACACCCCACACGCACACCCCGA-TCGATCCTGGCATCC	CTACGCTGCT 952
LOC_Os05g45230_pW58	GTACGCCTATATATACTCACCGCGCGCCGCCGC-CGTGCACCTGTCCGTCCGTCCGTCCGTCCGTCCGTCCGTCCGTC	CACTGAT 964
H1850565_pW58p	GTACGCCTATATATACTCACCGCGCGCCGCCGC-CGTGCACCTGTCCGTCCGTCCGTCCGTCCGTCCGTCCGTCCGTC	CACTGAT 964
T3075919_pW58	GTACGCCTATATATACTCACCGCGCCGCCGCCGCCGCCGCCGCCGCCGCCGCCGCCG	CACTGAT 944
LOC_Os03g21710_pW79		GGTTGGTAAT 981
m1952278_pw79	ACCOTATATATCCCAGTCTGTGTGTGTGTGTGTGTGTGTGTGTG	GGTTGGTAAT 981
LOC Os05g49620 pW19	TCACTACCACACTCGCCATCCTACCTCACACGCTCTCACCAACAACAAGAAACCACAC	CGCTTACGAG 978
H2014700_pW19	TCACTACCACACTCGCCATCCTACCTCACACGCTCTCACCAACACAAGAAACCACA	CGCTTACGAG 977
T3058779_pW19	TCACTACCACACTCGCCATCCTACCTCACACGCTCTCACCAACAACAAAAACCACAC	CGCTTACGAG 974
LOC_0s09g25060_pW76	CTGTTTCTGTTTTGATTACTCGAGCTCCAGAGCACAGCAGAGAGAGAGGCGGAGCTGTT	ICGTGGTCGT 989
H1974322 pW76p	CTGTTTCTGTTTTGATTACTCGAGCTCCAGAGCACAGCAGAGAGAGAGGCGAGGC	PCGTGGTCGT 989
		0
LOC_Os01g51690_pW26	1060 1070 1080 1090 1100 1111 	98 4
LOC_Os01g51690_pW26 H289702_pW26 T3056296 pW26	1060 1070 1080 1090 1100 1111 	984 551 1000
LOC_Os01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_Os01g53260_pW23	1060 1070 1080 1090 1100 1111 	98 4 551 1000 1000
LOC_Os01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_Os01g53260_pW23 H1961965_pW23	1060 1070 1080 1090 1100 1111 .	984 551 1000 1000 1000
LOC_Os01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_Os01g53260_pW23 H1961965_pW23 T3027906_pW23	1060 1070 1080 1090 1100 1111 A-TGCACGTGTACCG	984 551 1000 1000 1000
LOC_Os01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_Os01g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_Os06g44010_pW28 H1976955_pW28	1060 1070 1080 1090 1100 1111 A-TGCACGTGTACCG	984 551 1000 1000 1000 1000 907
LOC_Os01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_Os01g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_Os06g44010_pW28 H1976995_pW28 T3063501_pW28	1060 1070 1080 1090 1100 1111 A-TGCACGTGTACCG	984 551 1000 1000 1000 1000 907 1000
LOC_Os01g51690_pW26 H289702_pW26 T3056296_pW26 LOC_Os01g53260_pW23 H1961965_pW23 T3027906_pW23 LOC_Os06g44010_pW28 H1976995_pW28 T3063501_pW28 LOC_Os05g46020_pW07	1060 1070 1080 1090 1100 1111 A-TGCACGTGTACCG	984 551 1000 1000 1000 907 1000 1000 1000
Loc_os01g51690_pW26 H289702_pW26 T3056296_pW26 Loc_os01g53260_pW23 H1961965_pW23 Loc_os06g44010_pW28 H1976995_pW28 T3063501_pW28 Loc_os05g46020_pW07 H2000561_pW07	1060 1070 1080 1090 1100 1111 A-TGCACGTGTACCG	984 551 1000 1000 1000 907 1000 1000 1000 1000
Loc_os01g51690_pW26 H289702_pW26 T3056296_pW26 Loc_os01g53260_pW23 H1961965_pW23 Loc_os06g44010_pW28 H1976995_pW28 Loc_os05g46020_pW07 H2000561_pW07 T3066720_pW07	1060 1070 1080 1090 1100 1111 A-TGCACGTGTACCG	984 551 1000 1000 1000 1000 907 1000 1000 1000
Loc_os01g51690_pW26 H289702_pW26 T3056296_pW26 Loc_os01g53260_pW23 H1961965_pW23 Loc_os06g44010_pW28 H1976995_pW28 Loc_os05g46020_pW07 H200561_pW07 T3066720_pW07 H2023318_pW64	1060 1070 1080 1090 1100 1111 A-TGCACGTGTACCG	984 551 1000 1000 1000 1000 907 1000 1000 1000
Loc_os01g51690_pW26 H289702_pW26 T3056296_pW26 Loc_os01g53260_pW23 H1961965_pW23 Loc_os06g44010_pW28 H1976995_pW28 Loc_os05g46020_pW07 H2000561_pW07 T3066720_pW07 H2002318_pW64 T3095730_pW64 Loc_os12g02450_pW64	1060 1070 1080 1090 1100 1111 A-TGCACGTGTACCG	984 551 1000 1000 1000 1000 907 1000 1000 1000
Loc_os01g51690_pW26 H289702_pW26 T3056296_pW26 Loc_os01g53260_pW23 H1961965_pW23 T3027906_pW23 Loc_os06g44010_pW28 H1976995_pW28 T3063501_pW28 Loc_os05g46020_pW07 H2003561_pW07 T3066720_pW07 H2023318_pW64 T3095730_pW64 Loc_os01g40260_pW77	1060 1070 1080 1090 1100 1111 A-TGCACGTGTACCG .	984 551 1000 1000 1000 907 1000 1000 1000 1000
Loc_os01g51690_pW26 H289702_pW26 T3056296_pW26 Loc_os01g53260_pW23 H1961965_pW23 T3027906_pW23 Loc_os06g44010_pW28 H1976995_pW28 T3063501_pW28 Loc_os05g46020_pW07 H2003561_pW07 T3066720_pW07 H2023318_pW64 T3095730_pW64 Loc_os1g40260_pW77 T3097007_pW77	1060 1070 1080 1090 1100 1111 A-TGCACGTGTACCG .	984 551 1000 1000 1000 907 1000 1000 1000 1000
Loc_os01g51690_pW26 H289702_pW26 T3056296_pW26 Loc_os01g53260_pW23 H1961965_pW23 Loc_os06g44010_pW28 H1976995_pW28 Loc_os06g44010_pW28 H1976995_pW28 Loc_os05g46020_pW07 H2000561_pW07 T3066720_pW07 H2023318_pW64 T3095730_pW64 Loc_os01g40260_pW77 T3097007_pW77 H1950043_pW77	1060 1070 1080 1090 1100 1111 A-TGCACGTGTACCG .	984 551 1000 1000 1000 907 1000 1000 1000 1000
Loc_os01g51690_pW26 H289702_pW26 T3056296_pW26 Loc_os01g53260_pW23 H1961965_pW23 Loc_os06g44010_pW28 H1976995_pW28 Loc_os05g44020_pW07 H2000561_pW07 T3066720_pW07 H2023318_pW64 T3095730_pW64 Loc_os01g40260_pW77 T3097007_pW77 H1950043_pW77 Loc_os09g25070_pW62 H1972014_pW62p	1060 1070 1080 1090 1100 1111 A-TGCACGTGTACCG .	984 551 1000 1000 1000 907 1000 1000 1000 1000
Loc_os01g51690_pW26 H289702_pW26 T3056296_pW26 Loc_os01g53260_pW23 H1961965_pW23 Loc_os06g44010_pW28 H1976995_pW28 Loc_os06g44010_pW28 Loc_os05g44010_pW28 Loc_os05g46020_pW07 H2000561_pW07 T3066720_pW07 H2023318_pW64 T3095730_pW64 Loc_os12g02450_pW64 Loc_os12g02450_pW64 Loc_os01g40260_pW77 T3097007_pW77 H1950043_pW77 LOC_os09g25070_pW62 H1972014_pW62p T3091546_pW62	1060 1070 1080 1090 1100 1111 A-TGCACGTGTACCG .	984 551 1000 1000 907 1000 907 1000 1000 1000
Loc_os01g51690_pW26 H289702_pW26 T3056296_pW26 Loc_os01g53260_pW23 H1961965_pW23 Loc_os06g44010_pW28 H1976995_pW28 T3063501_pW28 Loc_os05g46020_pW07 H2000561_pW07 T3066720_pW07 H2003518_pW64 T3095730_pW64 Loc_os12g02450_pW64 Loc_os01g40260_pW77 T3097007_pW77 H1950043_pW77 Loc_os09g25070_pW62 H1972014_pW62p T3091546_pW62 Loc_os05g39720_pW70	1060 1070 1080 1090 1100 1111 A-TGCACGTGTACCG	984 551 1000 1000 1000 907 1000 1000 1000 1000
Loc_os01g51690_pW26 H289702_pW26 T3056296_pW26 Loc_os01g53260_pW23 H1961965_pW23 Loc_os06g44010_pW28 H1976995_pW28 T3063501_pW28 Loc_os05g46020_pW07 H2000561_pW07 T3066720_pW07 H2023318_pW64 T3095730_pW64 Loc_os12g02450_pW64 Loc_os01g40260_pW77 H1950043_pW77 Loc_os09g25070_pW62 H1972014_pW62p T3091546_pW62 Loc_os05g39720_pW70 H334389_pW70	1060 1070 1080 1090 1100 1111 A-TGCACGTGTACCG	984 551 1000 1000 1000 907 1000 1000 1000 1000
Loc_os01g51690_pW26 H289702_pW26 T3056296_pW26 Loc_os01g53260_pW23 H1961965_pW23 Loc_os06g44010_pW28 H1976995_pW28 T3063501_pW28 Loc_os05g46020_pW07 H2000561_pW07 T3066720_pW07 H2000561_pW07 H2023318_pW64 T3095730_pW64 Loc_os12g02450_pW64 Loc_os01g40260_pW77 H1950043_pW77 Loc_os09g25070_pW62 H1972014_pW62p T3091546_pW62 Loc_os05g39720_pW70 H334389_pW70 T3094952_pW70	1060 1070 1080 1090 1100 1111 A-TGCACGTGTACCG	984 551 1000 1000 1000 907 1000 1000 1000 1000
Loc_os01g51690_pW26 H289702_pW26 T3056296_pW26 Loc_os01g53260_pW23 H1961965_pW23 Loc_os06g44010_pW28 Loc_os06g44010_pW28 H1976995_pW28 T3063501_pW28 Loc_os05g46020_pW07 H2000561_pW07 T3066720_pW07 H2023318_pW64 T3095730_pW64 Loc_os12g02450_pW64 Loc_os01g40260_pW77 H1950043_pW77 Loc_os09g25070_pW62 H1972014_pW62p T3091546_pW62 Loc_os05g39720_pW70 H334389_pW70 T3094952_pW70 Loc_os05g45230_pW58 H1850565_pW58p	1060 1070 1080 1090 1100 1111 A-TGCACGTGTACCG	984 551 1000 1000 1000 907 1000 1000 1000 1000
Loc_os01g51690_pW26 H289702_pW26 T3056296_pW23 Loc_os01g53260_pW23 H1961965_pW23 T3027906_pW23 Loc_os06g44010_pW28 H1976995_pW28 T3063501_pW28 Loc_os05g46020_pW07 H2000561_pW07 T3066720_pW07 H2023318_pW64 T3095730_pW64 Loc_os12g02450_pW64 Loc_os01g40260_pW77 T3097007_pW77 H1950043_pW77 Loc_os09g25070_pW62 H1972014_pW62p T3091546_pW62 Loc_os05g39720_pW70 H334389_pW70 T3094952_pW70 Loc_os05g45230_pW58	1060 1070 1080 1090 1100 1111 A-TGCACGTGTACCG	984 551 1000 1000 1000 1000 1000 1000 1000
Loc_os01g51690_pW26 H289702_pW26 T3056296_pW26 Loc_os01g53260_pW23 H1961965_pW23 T3027906_pW23 Loc_os06g44010_pW28 H1976995_pW28 T3063501_pW28 Loc_os05g46020_pW07 H2000561_pW07 T3066720_pW07 H2023318_pW64 T3095730_pW64 Loc_os01g40260_pW77 T3097007_pW77 H1950043_pW77 Loc_os09g25070_pW62 H1972014_pW62p T3091546_pW62 Loc_os05g39720_pW70 H334389_pW70 T3094952_pW70 Loc_os05g45230_pW58 H1850565_pW58p T3075919_pW58 Loc_os03g21710_pW79	106010701080109011001111A-TGCACGTGTACCGAA-TGCACGTGTACCGAA-TGCACGTGTACCGAA-TGCACGTGTACCGAA-TGCACGTGTACCGAAAA-CCTGCGCCGATCGAGATAAA-CCTGCGCCGATCGAGATAAA-CCTGCGCCGATCGAGATAAA-CCTGCGCCGATCGAGATAAA-CCTGCGCCCGATCGAGATAAATTTCTACTGTCAAGACCAAGACGCGACAAAGTATTCTACTGTCAAGACCAAGACGGCGACACAGTATTCTACTGTCAAGACCAAGACGGCGACACCTCGTACTCGGCCCCTCGTACTCGGCCCCTCGTACTCGGCCCAATTAGGAATAAGGAGATCAAATTAGGAATAAGGAGACAACACAATTCCGGTGATAAAGCGCTCTGCGTGAGCTGAGC	984 551 1000 1000 1000 1000 1000 1000 1000
Loc_os01g51690_pW26 H289702_pW26 T3056296_pW26 Loc_os01g53260_pW23 H1961965_pW23 T3027906_pW23 Loc_os06g44010_pW28 H1976995_pW28 T3063501_pW28 Loc_os05g46020_pW07 H2000561_pW07 H2000561_pW07 H2023318_pW64 T3095730_pW64 Loc_os01g40260_pW77 T3097007_pW77 H1950043_pW77 Loc_os09g25070_pW62 H1972014_pW62p T3091546_pW62 Loc_os05g39720_pW70 H334389_pW70 T3094952_pW70 Loc_os05g45230_pW58 H1850565_pW58p T3075919_pW58 Loc_os03g21710_pW79 H1952278_pW79	1060 1070 1080 1090 1100 1111 A-TGCACGTGTACCG	984 551 1000 1000 1000 1000 1000 1000 1000
Loc_os01g51690_pW26 H289702_pW26 T3056296_pW26 Loc_os01g53260_pW23 H1961965_pW23 T3027906_pW23 Loc_os06g44010_pW28 Loc_os05g46020_pW07 H2000561_pW07 H2000561_pW07 H2023318_pW64 T3095730_pW64 Loc_os01g40260_pW77 H309707_pW77 H1950043_pW77 Loc_os09g25070_pW62 H1972014_pW62p T3091546_pW62 Loc_os05g39720_pW70 H334389_pW70 T3094952_pW70 Loc_os05g45230_pW58 H1850565_pW58p T3075919_pW58 Loc_os03g21710_pW79 H1952278_pW79 T3070072_pW79	1060 1070 1080 1090 1100 1111 A-TGCACGTGTACCG	984 551 1000 1000 1000 1000 1000 1000 1000
Loc_os01g51690_pW26 H289702_pW26 T3056296_pW26 Loc_os01g53260_pW23 H1961965_pW23 T3027906_pW23 Loc_os06g44010_pW28 Loc_os05g46020_pW07 H200561_pW07 H2000561_pW07 H2023318_pW64 T3095730_pW64 Loc_os01g40260_pW77 H309707_pW77 H1950043_pW77 Loc_os09g25070_pW62 H1972014_pW62p T3091546_pW62 Loc_os05g39720_pW70 H334389_pW70 T3094952_pW70 Loc_os05g45230_pW58 H1850565_pW58p T3075919_pW58 Loc_os03g21710_pW79 H1952278_pW79 T3070072_pW79 Loc_os05g49620_pW19 H2014700_pW19	1060 1070 1080 1090 1100 1111 A-TGCACGTGTACCG	984 551 1000 1000 1000 1000 1000 1000 1000
Loc_os01g51690_pW26 H289702_pW26 T3056296_pW26 Loc_os01g53260_pW23 H1961965_pW23 T3027906_pW23 Loc_os06g44010_pW28 Loc_os05g46020_pW07 H2000561_pW07 H2000561_pW07 H2023318_pW64 T3095730_pW64 Loc_os01g40260_pW77 T3096720_pW07 H1950043_pW77 Loc_os09g25070_pW62 H1972014_pW62p T3091546_pW62 Loc_os05g45230_pW70 H334389_pW70 T3094952_pW70 Loc_os05g45230_pW58 H1850565_pW58p T3075919_pW58 Loc_os03g21710_pW79 H1952278_pW79 T307072_pW79 Loc_os05g49620_pW19 H2014700_pW19 T3058779_pW19	1060 1070 1080 1090 1100 1111 A-TGCACGTGTACCG	984 551 1000 1000 1000 1000 1000 1000 1000
Loc_os01g51690_pW26 H289702_pW26 T3056296_pW26 Loc_os01g53260_pW23 H1961965_pW23 T3027906_pW23 Loc_os06g44010_pW28 Loc_os06g44010_pW28 Loc_os05g46020_pW07 H2000561_pW07 H2000561_pW07 H2023318_pW64 T3095730_pW64 Loc_os12g02450_pW64 Loc_os01g40260_pW77 T3097007_pW77 H1950043_pW77 Loc_os09g25070_pW62 H1972014_pW62p T3091546_pW62 Loc_os05g45230_pW58 H1850565_pW58p T3075919_pW58 Loc_os03g21710_pW79 H1952278_pW79 T307072_pW79 Loc_os05g49620_pW19 H2014700_pW19 T3058779_pW19 Loc_os09g25060_pW76	1060 1070 1080 1090 1100 1111 A-TGCACGTGTACCG . .	984 551 1000 1000 1000 1000 1000 1000 1000
Loc_os01g51690_pW26 H289702_pW26 T3056296_pW26 Loc_os01g53260_pW23 H1961965_pW23 T3027906_pW23 Loc_os06g44010_pW28 Loc_os06g44010_pW28 Loc_os05g46020_pW07 H2000561_pW07 H2000561_pW07 H2023318_pW64 T3095730_pW64 Loc_os12g02450_pW64 Loc_os12g02450_pW64 Loc_os01g40260_pW77 T3097007_pW77 H1950043_pW77 Loc_os09g25070_pW62 H1972014_pW62p T3091546_pW62 Loc_os05g45230_pW58 H1850565_pW58p T3075919_pW58 Loc_os03g21710_pW79 H1952278_pW79 T307072_pW79 Loc_os05g4920_pW70 H1952278_pW79 T307072_pW79 Loc_os05g49620_pW19 H2014700_pW19 T3058779_pW19 Loc_os09g25060_pW76 T3076120_pW76	1060 1070 1080 1090 1100 1111 A TGCACGTGTACCG	984 551 1000 1000 1000 1000 1000 1000 1000

Fig. S4: Structural variation at promoter regions in Tetep and HP2216 in comparison with Nipponbare. The black boxes are showing variations and the brown arrows showing sequence dissimilarity.



Fig. S5: 1 kb promoter analysis of DEG WRKY for conserved domains search using MEME software. Black circles depict variations in domains.