

Table S1. Genomic and transcriptomic sequences corresponding with the associated DArT seq markers.

Marker_ID	Chrom	Pos	DArTseq_sequence_tags	Napier_genomic_sequence	Napier_transcriptom_sequence	Annotation (closest gene function)
30280861 F 0-11:A>G- 11:A>G	0	0	TGCAGGTACATATGA AGCTGACGCAAGCTA AACATACCACCG	CAGCACGCGTCTCCGATGTTGAGCTCATGTAACGGG CTCTGTTTTGCTGCCCGTTACCAAAGTCCTCTATGGGC CCAGAGAAACAGTCATTTCACGTGACCGGTGACTAG TTGTGGTAACAGTCGTTGCTTGATGACTGTTACGAAT ACGTGTTATCAATAACAGGCATCAGCCCGTTACATT CTTCGCTCATTGTAACTTGATCACTNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNCTAGTCTAACTGCAGGTACATATGAA GCTGACGCAAGCTAAACATACCACCGCCGGGCTAA C	NA	NA
30283847 F 0-11:A>G- 11:A>G	0	0	TGCAGTCGCGGAGGTT CACACCCGCCGACGC CGCGCCGCTGCACTCG	NA	NA	NA

CGAGACGGCGGCGGC
AGCAGCG

30285085	0	0	TGCAGTAACGTTAATA TAGATATATACTACTG TAGTAAACCG	ATGAATGCAACACTCACACAATCATTTTATTTAATTT AGAATAACAATCAAAAACCTTTTTCTATTCTATATTT CCTGTAAAGAAAATAAATGTTGAATTTTTTTTTAAAA TTATGAGAAAATTATTATTTAATTAATCTTTCTATTCA CATCCTGAAATTTAATTCAGGGTGTGACAAGTGAGT ATACTGCAGTAACGTTAATATAGATATATACTACTGT AGTAAACCGTAACCTGGGGATCAGAAAATTTTCTA GGACCCTAGTTTTCCCCCTAGATATCCACTGCGTC AACATAAAATGCAAGACATTCTTGATTCTTCAGGAA CAGACGACACTCACATAGTCACATTACATAGATTAG AACAGTGTCTTACATACTGGGAGCAACGATTACAGG AACATATCTGCCTCTTGCAATCAACAACGCTGATCA ACAAATAAAATCAACACTGTTGTAAGATGAACTCAA CTGTCCATCTTTAGCTCCCCAAAATATGGTACTGCC GTAGCATTTCTTTACTGGATCTAAGACTGCAGGTGG ATGCAGACTGTGGTGCACCTGAACATGTTTACCGTAC CGAGTACCTGATGCCAAGGCCATTGCAGGTGAGTAT TAAACCCTTGTGCCGTTCAAGTAGCTCGAAATTGT TGGCAAAACAACATGATGTATGAGAACAATCGCATAA CAAGATAACCGCAGGGGAAAAAAATGCTTACCGCC ACATTCTGATCTTGAACGTATATAATGCCTGCTTTGTC GTACTCTTGCCTTTTTGCAGGATTACTCAGAAGTGTTA AAAGAAAGAAGCACCAGAAACAATAACACAAGATG AGTCATAATAAGCCTAGGATTTGTCTCTTTCTAGAAT GGAAAGTAAAGAGCACAGCGAAAGAATATTTCTTTA GGACAGACTTTATCATCACAGTTAGCTTTCTCTAGA GGAGCGAGACTGGTGATGGATACAGCCTAATAAAAAG TGCAAAATGTTCAAGAGATGTGGCTGAACTGCTTAA GCATGATGGACAGCTAGGTATGCATTTACATCTAAC ATCTGCCGACAAATCTAACAGTTTATGGCTTTCTAAT TAAACTATCAAAGATAGTTTGAAGGAAGAAAACAAA AAAAGATTATAATAAATGGAAAAGTCCAAATCACCC CCCTCAAGTAAAACCAAAGTTTGGAAAACCCCTAC AGTATTTCTTAGTTCAGTTCACCCCTAAACTATAACA TTTGGTTCAATTTACCCCTAACACAATTTGCTTTTT	NA	NA
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NN
NN
NNNNNNNNNNNNNNNNNNNNNTCATGTACAAGTGGAGT
TTAAACTCAAATTTTGCAAGATGATAGCAGACAAC
ATAAGGCATGTTAAAAATATATATCATAAAATTTCA
TCACTATTTAATAGGGTAAAAATTTAATAATAAAA
TTATCGTTGAGATACAATATTATATAAAATTAATGA
TGAAAAATCATAAAATTTTTCTGATATAGATTAT
GATGCCAACTACCATCTTGCAAAGTCTCAAATTAAA
ATTCAACTTGTG

23634398

0

0

TGCAGGCCGCCGTGAT NA
ACTAGTACTACCTCTG
TTTCCTATACATGAC

NA

NA

GTTTCAGACTAAACAA
TTAGC

23602557	5	8098 7694	TGCAGGCCGCAGACC GCGGGCGGGATGGGG CCCCTGAGTAGGTTCC CG	NA	NA	LOW QUALITY PROTEIN: leucine-rich repeat extensin- like protein 7, partial [<i>Setaria italica</i>]
30288908 F 0-63:G>A- 63:G>A	4	1711 0568 5	TGCAGCACGGCGAGC TTCTCCTCCAGCACGA CCCTCAGGTTCATC GTACGGGAACGGCAG GGTAATG	NA	GCCCAGTACACCTGCAGCAC GGCGAGCTTCTCCTCCAGCAC GACCCTCAGGTTCTCATCGTA CGGGAATGGCAGGACAATGG CTGCCCCGAACGGCCTTGACG TCAGGCTCCTCGTCTTCCGTAT CAGCTCCCTCACGTA CTCCGG CGCC	putative nitronate monooxygenas e [<i>Dichantheium oligosanthes</i>]
23603266 F 0-19:A>G- 19:A>G	0	0	TGCAGGGTGCAGGCT GCTGACCG	NA	NA	NA
23590251 F 0-17:C>G- 17:C>G	4	1385 3480	TGCAGCAGCACGGGA GGCTGCTGCCAGGTTT CCATCCCCTCGGGGA GCATCAGATCCTTCGA CGTGTAC	NA	NA	putative wall- associated receptor kinase-like 16 [<i>Setaria italica</i>]

23642045|F 0
|0-12:A>T-
12:A>T

0

TGCAGTTCGACCAGG
AGAAGTGGCGGCTCG
GGTTTGCCAGGGTGCC
AATTTTACGTCGTGC
AGTAACT*

CCGCCCCTTCGTGGACGCGTTCGACAAGGCCCTGAT
GCGGCAGTGGAAACACCACCAAGAAGGTGGCGGCGG
TGGCGCCGTTTCGAGCTCTGTTACGATTCGAGGACGCT
CCCTGGGCCGACCAGGATCGGGTGGCTTGCCCGGA
CATCGACCTCGTGCTCGAGGGTGGGAAGACCAACTG
GACGTTTCGACGGCCTCAGCTCCATGGTGGATGTCAA
CAACTTCACGGTGGCGTGCCTCGGGTTCGTCGAGATG
AAGAAGGGCGGATACGGCGGGGCGCCGGCGGTGGT
GATCGGAGGGTTCAGATGGAGAACCACGTCCTGCA
GTTTCGACCTGGAGAAGAGGGCGGCTCGGGTTTGCCAG
GGTGCCCATTTTTACGTCGTGCAGTAACTTCAATTC
ACCCGAAGGAACTAGCCTTTGACTGCATGTAATCGT
AAGCCTGCACATGGCCGGTGTGGTCAACCGGAAAGT
GATACTCCTCCATCGCGTCAGTGTGCTGCCAAATATG
TCATCATCATAAAAACAACTATACAGCACCCACT
AAAGAATTCTCTCAACCCTCA

GTGAAATTGAAGTTACTGCAC
GACGTAAAAATGGGCACCCT
GGCAAACCCGAGCCGCTCTT
CTCCAGGTCGAACTGCAGGA
CGTGGTCTCCATCTGGAACC
CTCCGATCACCACCGCCGGCG
CCCCGCCGTATCCGCCCTTCT
TCATC

aspartic
proteinase
nepenthesin-2
[Setaria italica]

23619626 F	0	0	TGCAGTAGTATAAGA	NA	GGGAAGTAGAGCTGCACTCG	NA
0-10:T>G-			CTCTGCGTGGATAAAG		AAACCTCAGATGGATTACCT	
10:T>G			GAGTGAAGGAGGCC		CGCGCGCTGCGGAAGAAGAG	
			G		CCTGACTTGGCTTCTGCAGTA	
					GTATAAGACTCTGCGTGGATA	
					AAGGAGTGAAGGAGGCCGG	
					GCTTTTCTGCAGCAGCTCGCC	
					GTCAGA	
23603845 F	0	0	TGCAGTAGTCTGCGGC	NA	NA	
0-9:C>G-			TCTGCGCGGGTGACCG			
9:C>G						
18160886 F	3	2541	TGCAGTTCGAGGAGGT	NA	GGAATTCATCATGGCTCATT	probable
0-16:G>A-		8516	GGAGAGGATGCTGGA		GAGGCCGATCTCACGGTTTTT	inositol
16:G>A		0	GCGGAAGGACTACAA		CGCCGGCCCAGCGTCGCCGA	transporter 2
			GCCATGGAAGAGGTA		CGCCGTGGTACCTCTTCCATG	[Setaria italica]
			CCACGGCG		GCTTGTAGTCCTCCGCTCCA	
					GCATCCTCTCCACCTCCTCGA	
					ACTGCAGGCCCTTTGTCTCCG	
					GCAC	

30288066	3	1824 4677 6	TGCAGGACAGCAGCA CGAAGGCCGAGCACA CGGTGTAGAGGAAGC GCGGTGATGGTGGCCT GCGGTTCG	AGGCTGGCTTCAGAGACAGGAAAAGACGGCGGTTG GCCTTCGGGTGAGCTCGCCATGCACAAGACAGGGGG CGGTCTGTAGTTGTNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN CAGGATAGCGGCACGAAGGCCGAGCACACGGTGCA GAGGAAGCGCGG	CTGGGTCCAAACCGTGGGGC GTGTCAGTGTTCAAGGCAAGG CAGTGCCTCGGGCAGCACCT GCAGGACAGCGGCACGAAGG CCGAGCACACAGTGTAGAGG AAGCGCGGTGACGGTGGCCT GCGGTTCGGCGGTGACGCGG AGCTCCGG	NA
23617359 F 10-9:G>C- 9:G>C	0	0	TGCAGCCAGGCAGCA GGTGAGTGCCAGGCA GCAGGTGAGTCAGCA GTCAGTCCG	NA	NA	NA
30283369 F 10-22:G>T- 22:G>T	0	0	TGCAGGGAAGGGATG AACAATTGTCCTTC TACTGCTGGCGTGAC CATGAAAAGCCTTGTA CAGGCA	NA	NA	NA
23562266	0	0	TGCAGCGCACGCCGC CGCCACTCCCAGCGCGC GGCGCGGCCG	NA	NA	NA

23621857	0	0	<p>TGCAGATGATCCATAT GATGATCAGGTTGAG GATTGAGGAGACAAT GCATGGATGGATGTGC CAACAAC</p>	<p>TATGCAGTTGATGGATGTAGTGACCGCATACTTATAT GGGTTGCTAGATTCTGATATATACATGAAAGTTCATG AAGGAATTAATATACCAGATAATAAGGCAAAATCGCA ACATGTATTGCATCAAGTTGCAGAAGTCATTATACAG CTTCAAGCAATCAGGCCGAATGTGGTACAATTGGTTA AGTGAATTCCTTATATCACTAGGGTTCATAAAATAGTG ATGACTATCCATGTGTCTTCATTAAGAATTCTAAGAA AGGATTTTGCATTATATCGGTTTATGTTGATGATCTTA ATATAATTGGCAACGAAGCCGATATTAATGAAGCAC GTCATCATTTNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNATTTACAACCTGAGCATCTCCTTCCGGTAT ATTTGAATACCAATCTGCTTGTGTCCAAAAGATATTG GAAAAGTTCAATATGGACAAGTCATATCCAGCAAAA ACTCCCATGGTAGTAAGGTCCATAGAAATTGAGAAG GATCCTTTTAGACCACGAGACGAGGGAGAAAAGATA TTGGGACCACAATTCCCATATCTTAGTGCTATTGGAG CATTGATGTATCTTGCTAATAGCACTCGCCAGATAT TGCATTCGCAGTAAATTTGCTAGCAAGACACGGTGCT GCACCTACCAAACGTCATTAGGTAGGAGTAAAAATG GTATTTAGATACCTCAATGGCACCAAAGATCTTGAAT TATTTTATAGTAGAAATCAAGATCCGACTTTGCTGGG ATATATAGATGCCAGTTATCTGTCAGATCCCCATAAC GGCAGATCACAAACAGGCTTTGTATTCTTACAAGGA AGCACGACAATTTCTTGGAAAGTCTACAAAGCAAGCA TTAGTATCTACTTCCACAAATCATTCTGAAATAATAG CCTTACATGAAGCATCACGCGAATGCGTATGACTTCG CAGAATGATAAACACATCATACAAACATGTGGTAT TGGTGCAATTGATACACCAACAATTTTCTTTAAAGAT AATTCAACTTGTATTACTCAGATGGAGTCAGGTTATA TTAAGAGTAATATGACTAAACATATTATTCCTAAGTT ATTCTACCCTCATGAACTCCAAAAGAATGGAGAAAT TGAAATCTTGCTGACTAAGTCATGTGATAATCTAGCA GACTTATTCACAAAATCTCTACCATACTCCTCGTTCC ATAAATGTGTTGAGGGCATTGGTATGAGAAGACTTA GAGACTTGCAAGAATCAGGGGGAGAATCTCTCTAAA TATAACTTACTCCATATATCATATTACACTTTTTTCTTT ATATGAGTTTTACTCGACTAGAGCTTGCTCACATAAA</p>	<p>CAAACCTGAAAGGTGGATTA GCTGCATATGATGATCAGGTT GAGGACTTAGGAGACGATGC GTGCATGGATGGATGTGCCAA CAACCGGTGGTTGAGAATATC GAGCCAGCTTATTTCAAGAAA AAAAGAAGAAGAAGAGAGA ACATGGA</p>	NA
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GTTTTAATGAGACTATGTCCTTAAGAATACGTAAAG
AGTCTATTAACATTGAAACAACATATATCATGGTGTT
ACTCCTTACTTTCCCACTGGGTTAAAGGAGTTTTTG
CTGGTATACCAATATATACTTTGGTTTTTCCACAT
GGTTTTCCAAGAATTCAAGATTATAATTGTTGAACA
AGTAAAGACTTCTACGAAGCTAATTGATCAAGGGGG
AGTGTGAGATTAGTTAATTAGTGATGAATTAGATTA
ATTAGGATAATTAGGAATCACATCAACCGCTCCCG
GCGGTTGTCACCGTAGGGGCATGGCACCCCTCTCTGT
ACCACCGTGGGGTGTGACACCCTTTCGGTTGGCCCT
TTGGGGTTGTATATATTGTTAACTTCTGTCAACACA
GTAATCGATCAATTCATTTCCATCCATTTACATCATC
AACAAGCCGGCCAATAAATAGAGCTAAATGTTAGT
GTTTCTCCTAATCTCAATGAGAAATACAAGTAGATT
GAATATAATCTTTCATCAGTGCTGAATACATTAAGTA
GATAATGATGCACCGGTATCATACGGTTCAGTTGGCA
ACTTACTCTTTCATCACTAACCTACCTAGTAGTAGT
ACACTACGGAGAAGTTGGTAGTAGAGTAATAGAAA
GCAGCACAATCATGGAGTAGTTAGTAGTACAGTAA
CCTCTCCTGTATAATGAAAAAATAAGCAACATGG
ACTTCCCTAGTTGGGAATCCTACCATACTCTCTTCT
CAGTTGTGCATAAACTCCAGAATCCACGGTTAATA
CTCACTCACTGCTTGTGCTATGTGAAAAGTAAAAGA
AGAAAAAACTAGAGAAAAGGTAAACGAAACTACT
ACTCGATTAACCAACTGACCAGCTAGCTAGATTCAG
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CCGTAGAAGATGAGCCCGCCGACGACGAGCGCGGA
GAGCGCCAAGGTGGCGCCGACGGCGAGCGGGGTGC
CGCAGGAGACGATGCCGA ACTTGAGCTGGATGGCGT
CGACCATGGACAGCAGCAGGAAGAAGGTGCCCATG
ATGGAGCACCCGGCGGCCAGCAGCATCATCGGCTGC
GCAAACCTGAGCACGGCGCGCCGGCGTCCCTCGGC
CCC GCGCGCCACGCCGGCATCTCCTCGCAGTCG
TCGGACGGCGCGGCTTCTGGTCGGCGTCGCCGTAG
AACTCGTCGGCGCGAGGAGCGTGACGGCGAGCTTC
ATCCCCTGCGCGACGAGGCTGGACAGGAGGTAGAAG
CCGAAGGAGAGGATCTCGAAGAGGAAGAAGTTGCG
CGCGATGTCGTGCGCCGGCGACGCAGGCGGGCGGGAT
GGTGGAGGAGGGGGTATGGTGCCCGTATGCCGAT
GAAGACGGCCACCGTGAAGAAGGTGTTAGCGGAGA

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CTCCGCTTCCCCTGCTGCTCTGCTCTGCTCAGTGCTT
CGAGTGATGGGCCTAGTGCTAGTGATCGAGTGATGG
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AAGGTTGTTAGGAACAATAATCATCTTCTGATGTGGT
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ATATAGGTATTTAACCCAATAATGAGCCCTATATCTA
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CGGTAAATTTAACTTGCAAAAATAATTAAGCTGAACAT
CACTCAACTATGGCAAGCCTTGGCAATGGCCACTAC
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CGTTTGCACTTCTCAAAATCGCTGCCATTATTGACTG
ATCAAACCTAAAAATTATGAAAATAACAAGATTTC
CAGGACAGCGAGCTTGATATGAATATGATCAATCAG
ACTCCAACCTTTCCACATAATTAACCTTAATGCAAAA
AAAAAATTCTCAAAAAAAAAAAAAATTGCATGGCTCG
CATAATGTGTGTACTGCTGCTACAACAATACTTGATT
CCTACTTAAAGCAGCTCCATGGAACGTGCGGTGAGC
TAGCTTTGCGGTTGGCAAACCTGAAAGGTGGATTA
GCTGCAGATGATCCATATGATGATCAGGTTGAGGATT
GAGGAGACAATGCATGGATGGATGTGCCAACAACC
GGTGGTTGAGAACATCGAGCCAGTTTATTTGAAAAA
GAAAAAAAGGAGCCAAAACCAGGATATAGCAGGC
AGCCAGTGAGTTATGTCCATAGCGTAAATATTGGTTG
TCTACTAGTACTGGTATATTACTATTACTAGTCTAC
AGCCTCAAAGAATACATGATACAGCAGACACCAAG
AATACTTGTTCATTTGACCATCGTATTCAAGAAAG
TGTGAATGGTAGTCATGCATTAAGCTTGCTTTTAGGG
GCCAGGGCCTAGCGTAGCCCCCTGCGTCTACGACGC
TAGGTACCGGTTCTTCTATGATACGCCCGGCCGGT
GACTCCCTCTACGCTAGCGAGAGGCCACCGCGGGGG
TTCGAACCCGGGTCGCCAGACTGAGATCTCGCTCAG
CTAGCCACCAGGCATCCCCCTACCCATTATGCT
TGCTTTTCATTTACCAATAGGTTAATCGGCTCTTCGA
ATGTTCTAAGACTATCACATGACTTCCTCTTTATGCA
AGAAGTGCATGGTGAACAACCTGGATCTAGACGTTT

TCCTTCTTCTTCTTTTGTATTAGGGTGATTGGTGAA
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CAGCAGTGCCTGGTTAATCCTAGACACACATTGCACT
TGGGACAGCTTAAATTGGCTGCGACTGAAAATTACA
ACTAAATATTTTTATCTAAATTCAGCTGTTCACTACT
TGTCCTAAATTTTATTGATATAATACTATAACAAT
GTTATATAAATATAGAATAACGAAGAGAAGGAACC
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GAGGGCGGAACGGATGGATACCGAGCGGGAGAGA
CTGGCCAAAGATGACTAGCGAAGCTGCAGGAATAGC
TAGCGGCAGATAGTGAGTGGTATTTTTGAGTGTCTGT
TGGATTGAGTTAAGATCATTTTTTCTTATTTTTTAGC
TAATCAAGTCAAGATAGTAGTCTTGGAGTTGCTCT
TAGGGTCTCCAGGAGCAATAATCCCATCTGAATTT
ATTTGAAGGTCTTGAATAGGTCAATGTTGGTACAAGA
TTTTCAGCATGTCGTGTGCTTTTTATCTTACTCTCTACA
ATAAGGCCCAATGTTACTGTGTGGATTTGTTGAAGAA
AACCAAATTTTGCCAGTTAGAATCTGAATATAGATG
CATGTTAAGCTTTATGATGTCGTAGTTTCAGTCTCTC
AGTCCTTGCCATCATGGATAAAAGTTAAATATCATCG
ACAACGAGTTTCAGAAGGTAAACACCCGGTTTTAA
AGGACAAACCGAATACACCCTTATGCATGCCTAGG
ATCAATTTTCATGCATAAAGTGCATCATCAGTGTA
TATCACAACATATATCATTACAATAATTATTGATTA
CAAAATGACTAGAGGGTCTAAAACAAAAGATTACAC
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
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TCATAAACTAATCGCAGCGGAGGGCTCCATCTCCA
CAGGAACGNNNNNNNNNNNNNNNNNNNNNNNNN
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CTTCTTCTAGCTTCTGACTATCTGAGTAGCAGTAG
GGAGAGAACAACACAGGTTGAAAGGAAAACGGTG
AGTACACCTGGAGGCGTACTCCGAGGTGGAGGG
AAAAATATGCATAACATGCAGGCTTAGAGCATGGAA
GGCTTTATGGTGGACTGCAAAGCTCAAGTTTTAGTTG

ATCAAGTTTTAATTAAGCACCTAAAGATATTAATTA
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ANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
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NNNNNNNNNNNNNNNNNNNAATCCCAAACCATATA
CCTCTCTATGATCCACAAAACCACTGACTAACCATG
TGAGGGTCCAGGCCGCTCATGATTGTGAGCGCGGT
GTTATAACAATGTTAACTCTGCAGAGGTTGTGCA
TCTTACCCACGAGTCGCGTAAAAGTTCTGAAGAATT
TTAAACCAACCATGTTGTGCTAGCTAGGCATGTTCA
CAC

30272381

0

0

TGCAGAGCATGCAGG
ACACCTGCTGGCAAC
AGTATACTACTCTCC

NA

NA

NA

TTAATCCCCTGCGTGG
GTGCGTA

236350421F 10-28:A>G- 28:A>G	4	1464 5599 5	TGCAGAGGACGAGAG CGAGTTCAGCTACATC CCG	NA	NA	NA
23592313	6	1742 1081 1	TGCAGCTTTGCTGGGC ACCCAGTGCGCTGAAT AAACAATTGATTGCAT TTAATGCAAACCGTTG GCCGA	NA	CCTAGCACCACCCAGCACCTG CAGCTTTGCTGGGCACCCGGT GCGCTGAATAAACAATTGATT GCACTTAATGCAGACCGTTGG CCGGAAGTGAACCGTTGGGC GTTCCGGTGTTTCAGGCCAACTA GCCGTTGAGCATTGTCTACA AATA	NA
23601388	0	0	TGCAGCTCAGCTCAAG CTCAGGCGGGGACCG	NA	NA	NA
236134581F 10-24:C>T- 24:C>T	0	0	TGCAGGCTCTACCGTG ATGAGGGGCTACCGTC TACTGACACTCTGGAA GGACCACGACGGGAT CCGAGA	NA	NA	NA
23558691	3	7574 07	TGCAGTCCTACACCAC TCGCTCACACTCTCCG	NA	NA	NA
236114611F 10-45:T>C- 45:T>C	3	2115 8560 6	TGCAGCAGTACGTACT GCTCCACTTGAGTGAT CTCAGTCGTACATGG	NA	NA	NA

ACCAACTCTCTGAACC
TATCA

30273188	2	7314 2498	TGCAGCTGTTGTGTGC AGAGCAACAGGGCCC TTATTTGTGCAAGATC ACAGGTCCCATCAATC AGCAAC	NA	NA	NA
30277167 F 0-41:A>C- 41:A>C	0	0	TGCAGCTTTTGGGCTT TCTCCCTATCTCCAGG AATCCATCCATGAACC GTCGAGTGGCGGGAA AAAGAC	NA	NA	NA
23606642	0	0	TGCAGTATAGTACAG ACACCCAGGGTCCTGC GGATCATGAATCAAG CAACCG	NA	NA	NA
30285860	7	2351 149	TGCAGCCAGGATGCA CACGGCTTTGGCCGCC ACGAGTCCGTCAACGT GTTTGGCCGCCGCGGT GCCGCC	NA	NA	NA
23551315	0	0	TGCAGACATTTGCAA TGACCAAGTACCTTCT GCTGCCAGATATTCAC CG	NA	NA	NA
23622292 F 0-28:T>G- 28:T>G	3	2588 9331 2	TGCAGGGCGACGGCA CCACCGATCCACCTCT CCACCGATCTGGCCGC CATCTGCGGGACGAC GCGCCGA	NA	NA	NA

23623489 F 10-66:T>C- 66:T>C	0	0	TGCAGCTCATCACCTG GCTGCTGGTGGGTCCC ACTCTGCCCTCCTCCT TCGAGTTCGACACGTG GATGC	NA	NA	NA
18149799	0	0	TGCAGCCTGTCAACAC TCCATTCCATCGGAAC GCCGCCGCCG	NA	NA	NA
23553829	0	0	TGCAGCCCACGTGT GAGCGCGAGCTAGAA GAAGAGGAGGAAGAA GCCCTCCG	NA	GACGACGAAGACACTCGATC GGCCATGGCCGCCGGAGGGC TTCTTCTCCTCTTCTTCTAGC TCGCGCTCACACGTGCGGGCT GCAGTAGATGACCTTGATCTC CTGGACGTTGCGGCACCTCCC GCTGGGCACCTGGGACACGG AGCAG	NA
23547174	0	0	TGCAGCCCAAGAGGC AGGGCTTGCTCACTTG AAGGGACGCAACAGA GGCTTTAACGGTGTT CCGAGAT	NA	NA	NA
23602556 F 10-16:G>C- 16:G>C	0	0	TGCAGGCCGCACGCA CGCAGGCGATGAGTG AGAGCGGCCG	NA	NA	NA

23571406	0	0	TGCAGTAGCACGTGG ATTTGTTTTATTCTCA TTTCAGTTTGCTAATG AATGATCCG	NA	ATTTTCTCCCTTCCAGAATTC CGCAGTAGCACGTGGATTTTG TTTTATTCTCATTTCAGTTTGC TAATGAATGATCCGGACTACA GAAGAATATATAAAATGCGTG ATTGGGTGCAAATAATCAGT GTGAAGTGGTGCCAGTTTAAC AA	uncharacterize d protein LOC101764385 [Setaria italica]
23601207 F 0-23:A>G- 23:A>G	0	0	TGCAGCGTCGTTGGAT ATGGCCTAAGAACTC GTAGCTGCCG	NA	NA	NA
23637406 F 0-36:T>C- 36:T>C	1	6607 0274	TGCAGGTCCACGGAG CCACAAGACGAGGAG GACGATGGGCCATTA CAGGGGGGCAAGGAC AGCAGGTG	NA	GGGCACTGCGGCATTCTTGGC CTGTCCTTGGAGCCGTGCCG TACCCACCTGCTGTCCTTGCC CCCCTGTAATGGCCATCGTC CTCCTCGTCTTGTGGCTCCGTC GAACCTGCAGAAGCGTAGGA CGAGGAGGAAGTGAGTAGCC TCTC	NA

23554509	0	0	CGGCCCTTGCGCCCTT GCCCCGTGAGACTGTC TCCAGCGGTGCGCGC AAACGGCGCTGCA	TAAGTAATCAGATCTGATCTGCATGCCAAAACCTACT ACATTTGGCTATTTTCATGCCACCCTATTCTGTCTAAA AAAAC TAGAATTACACTTTTTATAAGACGGAAGGAG TTTGATGATTTAGACCTCAAGTGGCATTAGCCAGTT TTAAAGACCAAAGGACCAGTTTAAACACCCGCTGGTA CATTTTTTTACTATCTTACACTTTAGAAAAGTGGAAA AGTGAGGGCAAATAGTAAACTGATCCTCCCTAGTCC TTGATGTCGTAGTTCACTTATCTCCGTTCTCCAGAGCA CTTGTTAATTTTGTTCGGGTAGTGCTAGCGCCAAG CATATGATGAGAATTTTTTCAGTCAGACGCTCAGCTGT AACAATAATATGAACACTATAGTTTATGCAATATCA CTTGAAAAGTTGCAATATTGTTGTTAACTATCACAA CGTACATCGGAGCCTTCGATTTTTCGTTACCCTCCGG ACGCCTAGCATTTCCTATAGTATTCCAATATCTAGC ACGACCTCTACTGAGCATGCCTGGTTTGGTAGACATG GCAGGGAAGTTTAGCACCTACGGATGCCCCGATTTCG GCAGACAAGCCGGTATCAGACAGCCATTAACAAGT GACCAACACGAGTTGGGAAAGGAAGCAAAGCATTTT AACCCCTCTACGCTGACGCATGGTTGGGGTTGGGTGG GTACAGCGAAGCAGACAGACCCCGTCTCGTCTAGCT CATGCCAATTTGGCCACTTCAACTAGCTAGACAGGT GAGCTCAGCTAGGGTACGGTACGGTCTGAGCCGGAA CGGAACGCTTCCCCTTGTGGCGTCCCCCTCATCGG TCATCGGATCCTGATTCCTGAACACCCCTTTTCGTGC ACGCACATGACGTGCTTTCCCCTGCCCCAAAGCGAG CGCCCCAAAAGTCGGAGTGGACTGGACGGGCGGGG CGGGCATGTAAAAAATCGCGACGCTCCCCGCCCAAT GTTCCCCCTGCCCTCCCCGGCCCTTGCGCCCTTGC CCCGTGAGACTGTCTCCAGCGGTGCGCGCAAAC	CGCTCGGGGATCGCTGCATT TTGCAGCGCCCGTTGCGGCGA CAGCTGGAGCCGCTACAGTG CCTGCCGGCGCTGCAAAATGC AGATGCAGCGCCGTTTGGCGG CACCGCTGGAGACAGTCTGAT CTTGAGCAAATTATAACATTG TCAC	NA
23612094 F 0-13:T>C- 13:T>C	0	0	TGCAGCGGAGAGTA TTCCCTCGCCCCGAAC CCGACAGCGGACTAG	NA	NA	NA

TGGAGGAATCGTCCGC
TACCCTC

23559758	0	0	TGCAGAAGCTTCTCCG AAGCCAGCACAACT GGGCTCTAGGCGATG ATCTCAAAGGGCAT GCCACAGC	NA	NA	NA
17981556 F 0-33:A>G- 33:A>G	5	1306 8442 2	TGCAGAAGATGCTGG AGGACATCGTGAAGG GCGACGACGGGAGCC GCGGCGGCGGCGTGG GCGGCCGCG	NA	GTGAAAAGGAGAAGCCGGA CACGCTGGAGGACCTGCAGA AGATGCTGGAGGACATCGTG AAGGGCGACGACGGGAGCCG CGGCGGCGGCGTGGGCGGCC GCGTGCCCGCGGACGGGCCG CGGCGGGCGGCGTCCGCGCC GTACCCGCAG	NA
23561721	0	0	TGCAGATTATTATCCG AGGTGCCCCG	NA	NA	NA
30278234 F 0-39:G>A- 39:G>A	0	0	TGCAGTACACTTGT AGTAGAGTACCCAAA GGAATTCTGGGCACC AACTGTTCAAGTTCTT GACAACC	NA	NA	NA
23593708	0	0	TGCAGGTATGAGAAA GGTTAAATTATTGCCG TTGCTGCGCTAGCTGG GAGTGGAGTCTATATG ACAATC	NA	NA	NA

GATGAGTCATATCTTTCATGTTTTAGCTCCGTTTTTCAT
CCGTCAAGTTGCGTTAGGTTCATAATGAAGTAAAGT
ACACGTTAGTGGTGAGTTTTTCATCATGTTTGTCTG
AAAATTAATTTAATATTAATTTTGATTAAAGCTTAGTT
ATGCACACCTTTTAGAAATAAAAAGTAATATAGGGCT
ATACACTGATTTTTCATAATTAATATTAATTTGATTAA
T

23606518	0	0	TGCAGCCGCGAGGAC GACGACGAAGGGAGC GCGGCGAGGGCGCGC CGCGCCG	NA	GCTGCCTGTCGGTGAGCCCGA CGCGGCCACGCGCTGCAGC CGCGACGACGACGAAGGGAG CGCGGCGAGGGCGCGCCGCG CCGGCGACGGCTGCTGCGGC GGGCGGCGCGACGAGTTGGG CTGCTCGACCTGCCGCACCGG CACGAGCT	NA
23570280	0	0	TGCAGTGCGGCCTGCC TCCCAACTCTCTCTCG CTGCAACTCCCGACCA AGACTTGCCCTCTAGC TCGCA	NA	NA	NA
23644354 F 0-25:A>G- 25:A>G	8	5406 31	TGCAGGGAGTGGGAG TGGATGGCGCAGAGC AGGGGAACGAGGAGA TCGGCGAGGCGCGGG TAGCGGTTCG	NA	CGGACTTCCAGCGCCTCGCCG GCGACCGCTACCCGCGCCTCG CCGATCTCCTCGTCCCCTGCT CCGCGCCATCCACTCCCCTC CCTGCGGCGCTTCGCCGACGC CTACTCCTCGTTCGAGAAGGC TGCCAGCGCATTCTGCAGGA GT	enhanced ethylene response protein 5 [Setaria italica]
23617372 F 0-11:C>G- 11:C>G	0	0	TGCAGCCATGCCCGAC CCAGGGACAGCTCCC	NA	NA	NA

			GCGACACGGAGCGCC GCCG			
23630423 F 10-31:A>G- 31:A>G	5	7814 5598	TGCAGGGCTGCGACG CGTCGGTGCTGCTGTC AGGCCCTACGACGA GCACAGCGCGGGCGC CGACACGA	NA	GCCGATCTTGACTGCTGTGCT GACTGCAGGGCTGCGACGCG TCGGTGCTGCTGTCGGGCCCC TACGACGAGCACAGCGCGGG CGCCGACACGACGCTGTCCG CGGACGCGCTCGACCTCATCA CCCGCGCCAAGCCCGCCGTC GACGCCG	peroxidase 16 [Setaria italica]
23614288 F 10-6:C>T- 6:C>T	3	5475 9027	TGCAGTCCCTGCGTGC GAAGCGCACCATGAG TCCGTGCTTCATGTAG AGCGTGGTGTGAGCT TGGGCT	NA	NA	cytochrome P450 86B1 [Setaria italica]
23601541 F 10-5:C>G- 5:C>G	0	0	TGCAGCTCTCTGATTT GTTGCTTCCCG	NA	NA	NA
23593756 F 10-52:A>G- 52:A>G	0	0	TGCAGGTCCGACGAC GACGCCGCCGCCCAA GACCACCACCAGCAG CTAGCTCAACGTCACC TGCCGCGC	NA	NA	NA

23640208 F 10-49:C>T- 49:C>T	3	2170 4806 1	TGCAGGTGGAAGTTCT CGCATTTCACAACCG TCTACGTGAGCGTAGG GCTGTCCG	NA	GGGGGATAGCTCCAGCTATCT GACATATCTTCCAGCCCAGTG AATGGCCGGACAGCCCTACG CTCACGTAGACGGTTGTGAAA ATGCGAGAACTTCCACCTGCA GTGCTCGGCTCCTATGACGTA TACAGGCTTCCCAGTGCTGCA TGCC	mitochondrial fission protein ELM1 isoform X2 [Setaria italica]
23634735 F 10-35:A>G- 35:A>G	0	0	TGCAGTTCACCCCTGC ACAGCGGGCATGTGTT GTTACACGCCATCAGC CAGTCGGCAATGCAG GCCCTG	NA	NA	E3 ubiquitin- protein ligase Os03g0188200 [Sorghum bicolor]
30277688 F 10-44:C>T- 44:C>T	0	0	TGCAGGCTTGCCCTGG TCGACGACGACGGCA GAAGGCTCGACTTCGC CACTGACAAATACTGC ACAGAG	NA	NA	hypothetical protein DRI48_01385 [Chloroflexi bacterium]
23603310 F 10-48:T>C- 48:T>C	0	0	TGCAGGTAATTCACCA ATGGGGATCAGATTA GCAGTTGCCGTTGAAG ATGACGGCCG	NA	NA	NA
23644438 F 10-9:C>G- 9:C>G	0	0	TGCAGGGCCCACGCG CTCGTGCTCCG	NA	NA	NA

236370891F 3 2807 TGCAGCTGTGTGGGCG NA
10-57:C>G- 1616 CTA CTCTCGACTTCGGA
57:C>G 5 AGCTCGAGCTGTGAAT
GGATAGATTCGAAAT
GACCGA

GGCTTGCCGAGGGCAGGCAT NA
AGCGGCGAGTGGGATCTCGA
AAGACAGGGAGGGCTCTAGA
GACTGCAGCTGTGTGGGCCCT
ACTTCGACTTCGGAAGCTCGA
GCTGTGAATGGATAGATTCGA
AGTGACCGGGTCGCCCGGTTT
TATAGG

236346911F 0 0 TGCAGTGCTTTCGCGT NA
10-59:T>C- CAGTCCTGATCGATGA
59:T>C GCCTGAAGAAAAGGC
CATTTCATGCGTCTAGT
TAGGAG

GGAGTAGCTGCTGCCGGCACT NA
GCCGGCACTGGTCATTGGCGC
GTCCGGATTGTCTTTCCAGA
CTAGTATAAAGGCCTTGCTTG
TTCTGCAGTGCTTTCGCGTC
AGTCCTGATCGATGAGCCTGA
AGAAAAGGCCATTCATGCGT
CCAG

23610213|F 0 0 TGCAGAATCAAAGGC NA
10-49:G>C-
49:G>C
TGGAAGCGAAGCGTG
CAGCAGCAGTTAGTA
ATATGCTAGGAGGAA
ACTCATGGG

GGATAACATGGCTTAAAGGG NA
CGGGATTAGCCCATGAGTTTC
CTCCTAGCATATTACTAACTG
CTGCTGCACGCTTCGCTTCCA
GCCTTTGATTCTGCAGGTTTCG
ACGAGCCCTCAGGATGCTGC
TCCACCCGACCGGGTCACGCT
GCT

9976877|F| 0 0 TGCAGGCGGCGTTTGG NA
0-24:G>A-
24:G>A
GCTGCGGCGGTGGGC
GCGTCGGTGGCGTACA
GCCG

TCTGAATAATTTGCTTGCTTGC NA
TGACGAGAGAACTACTGACT
GTATGCTGCAGGCGGCGTTG
GGCTGCGGCGGTGGGCGCGT
CGGTGGCGTACAGCCGGCGG
AGCGCGCCGACGCGGCGAC
GAGCTTGAGGTTTCATCCACGC
CAGGAT

23641842|F 5 1210 TGCAGCTCGCATCGCT NA
10-43:T>A- 4755
43:T>A 6 CGCTAGTGACTGACAC
TCTGACATGACTTTGT
TTTTCTGCCACGCGT
TGCAG

NA NA

23641967|F 3 2287 TGCAGGGGTACCGCA NA
10-67:A>G- 1658 ACGTGATGGAGAACT
67:A>G 7 GCATGGAGAGCGCGC
GGACGCTGCGGGAGG
GTCTGGAAC

CGGTCCTTGGAGATGATGGTG glutamate
AACCGGCCCGTGC GTTCCAGA decarboxylase 2
CCCTCCCGCAGCGTCCGCGCG [Setaria italica]
CTCTCCATGCAGTTCTCCATC
ACGTTGCGGTACCCCTCGAAG
CCCAATCGAAGGAACTGGTA
ATACTGCGCGATGATCTGGCT
AGAC

23624048|F 0 0 TGCAGGCCCTCGGAGT NA
10-23:G>C- CGACGCGGAAGGCGG
23:G>C CGGAAGGGCCCTCGC
CGTCATCGGAGGAGG
CGGGGAAG

CGACGCCAGTTCATCAATCTG probable
ACGCTGCAGGCCCTCGGAGTC ureidoglycolate
GACGCGGAAGGCGGCGGAAG hydrolase
GGCCCTCGCCGTCATCGGAGG isoform X2
AGGCGGGGAAGCCGGCGAAC [Panicum
TCCTCCATGATCCGCCGCC hallii]
GCCGCGTCGTCTGGCCCGCC
GCGAC

23633468 F 10-21:G>A- 21:G>A	5	1292 1367 1	TGCAGAAGCGTACGA CATCGCGGCACTGAA GTTCAGGGGCGAGAA TGCTGTCACCAACTTC GAGCCCAG	NA	TGGGGATCTCACGTTGAGCGA TTTCTCGCAGGTTGTACCGGC TGGGCTCGAAGTTGGTGACAG CATTCTCGCCCCTGAACTTCA GTGCCGCGATGTCGTACGCTT CTGCAGCCTCTTCTTCGGTTGC GAAAGTCCCAAGATACAGGT CCT	AP2-like ethylene- responsive transcription factor AIL5 [<i>Dichantheium</i> oligosanthes]
30284244 F 10-20:A>G- 20:A>G	0	0	TGCAGCGCGCTCCA CGACAGCCCGAAAGT TCCCGAGCTGCCTCTC GTGCTTCGCCACCTCC TCCATC	NA	NA	NA
9972908 F 0-15:T>A- 15:T>A	0	0	TGCAGAGGTGCTAGAT GGGAGGCCAGCCG	NA	NA	NA
23591173 F 10-6:C>T- 6:C>T	4	1842 0965 5	TGCAGCCTTATTCTTG ACGACGTTCTCCCCCA AGCTGAACGGCGGCG GCACGTACGGCGGCG TGGCGCA	NA	CCGCTGCCGCCACCAGCACCT GCAGCCTTATTCTTGACGACG TTCTCCCCAAGCTGAACGGC GGCGGCACGTACGGCGGCGT GGCGCACCGGAGCAGCGCCC AGTTGACGCCGCCGAAGAAC GGGTGCCGCTTGATCGCCGCC GCGCCC	serine/threonin e-protein kinase D6PKL2 [<i>Setaria italica</i>]

23633785|F 3 3168 TGCAGCAGCATCACG NA
10-20:A>C- 950 CCCAGAGAGTAGACG
20:A>C TCGGACTTGACCCCA
GCATCCCCGTCTGCTG
GTACTCC

TGGCCGCGCTGTGACGATCTG U-box domain-
CAGCAGCATCACGCCAGCG containing
AGTAGACGTCCGACTTGACCC protein 35-like
CCAGCATCCCCGTCTGCTGGT [Panicum
ACTCCGGGTGATGTAGCAG miliaceum]
AAGGTGCCGGCGGGAGGT
CATGTGGCACTGCGTCACGTT
GTCGGC

23603083|F 0 0 TGCAGGGCTGCTGCAT NA
10-25:G>C- CTGGGGCTTGAGCGG
25:G>C GCAGTGCGGGCGCCA
GGCGGGAGGCGGCCG

CATTTTCTTCTGCAGGGCTGCT NA
GCATCTGGGGCTTGAGCGGGC
AGTGCGGGCGCCAGGCGGGA
GGCGGCCGGTGCCAAGCTAC
AGTCGCGCGCGGAAGAGGAA
GCGTGCGGCCTGAGTCCACG
GAAGCGGCGGCGCGGGAGG
TGGAGCA

23637508 F 0-11:C>G- 11:C>G	4	3694 0106	TGCAGTTGAGCCGA GGAGGGCTCGGATGC GATGGAAGAGGTTCTT GAGGTAGACCTTGTC TTGAGGA	NA	CGAAGACGAGGCTGCAGTTG AGGGCGAGGAGGGCTCGGAT GCGATGGAAGAGGTTCTTGA GGTAGACCTTGTCCTTGAGGA AGGCCGGGAGCGATTGGCA CTGCAGAGCTGCACGAGCCA GCAGGAAAGATCCACGCACA CCTTCTTGT	flap endonuclease GEN-like 2 isoform X1 [Panicum hallii]
30275343 F 0-61:A>G- 61:A>G	6	1034 4758 2	TGCAGAGATCCAATTT TG TAGAGAACAAAAT TAAAGATCACATCACT GTCCATTGATCAGAC CATTTC	NA	NA	NA
23634506 F 0-39:A>C- 39:A>C	6	2390 2182 1	TGCAGGTA CTTGAAAT TTGCCTGGCCCGCATT TTCACGCAGAACCAC CGTATTCGAGGGGCCG	NA	TCGATTCAGGGGCTAGCTGG TGAGAAGCTTCTTGACTTTGG CGGCTGGGCTAATGGGACAC GGCGCCGGCCCTCGAATAC GGTGGTCTGCGTGAAAATGC GGGCCAGGCAAATTTCAAGT ACCTGCAGCAGCTGGAGCGG AGCAGAG	NA
23600245 F 0-15:G>A- 15:G>A	0	0	TGCAGCCATGGAGGC GCCTCCTATCCCCG	NA	NA	NA

23639712|F 5 1037 TGCAGATCCTCGTACG NA
10-5:A>G- 9330 CCGTCACCGACGCTGC
5:A>G 0 CGTCGCGCCGACCCCG

CACCACCACCCACCAAGCCA uncharacterize
ACCACAGGAGCTGGGGCTTG d protein
GCTGGAGCTCCCCCGGCGAC LOC101767184
GGACAATGGCGACGGCGTGG [Setaria italica]
GTGCGCTCGCTCAGCTGCAGA
TCCTCGTACGCCGTCACCGAC
GCTGCCGTCGCGCCGACCCCG
GCCAAGA

23643649|F 0 0 TGCAGTAGAGACAGG NA
10-37:A>G- GGTGCTGCTCGAACCC
37:A>G CTTCTACGCAGCAGC
TCCCTGGCCCG

NGGCGCGTCGGCGTTGGCGTC metacaspase-9
GCTGCAGTAGAGACAGGGGT [Setaria italica]
GCTGCTCGAACCCCTTCTCAG
GCAGCAGCTCCCTGGCCCGGC
TCACCACCTCCCGGTTGCTCA
CCGGCGCCGGTGCGGCGCC
AGCACGGCCTGCACCGCGCT
GCTGAA

23612910 F 10-48:G>A- 48:G>A	7	7931 5208	TGCAGGACCAAGAGA ACAAGAAGTAGGATT GCAGCAAGTCTGGAG ATCGATCTGGCTCTGC ACTCTAAT	NA	CTACCAGCCGAGGCAAGTCCT AATAATAACAAAAAGAAAAG AAAAGAAAGAAAAATTATG TACACGCTGCTGCAGGACCA AGAGAACAAGAAGTAGGATT GCAGCAAGTCTGGAGATCGA TCTGGCTCTGCACTCTAATTTG GCTACCA	NA
23612265 F 10-5:C>T- 5:C>T	0	0	TGCAGCGTGACACCGT ACACGCCGCCTCCTCT GAAGACTGAAGTGCTT CAGGCTAGAGGCCCA AGTACC	NA	NA	NA
23602480 F 10-52:G>A- 52:G>A	0	0	TGCAGGCATATCGTCA AGGTCTGTGTAATGCT TTAATTTACATGICCC AAATGTCTTACCG	NA	NA	NA
23550889	0	0	TGCAGAAACAGCTCT ACATCAGCGAGAAGA CGCCGCGCCG	NA	NA	NA
23559178	0	0	TGCAGTGGATTGATCG GAATGGCCG	NA	NA	NA
23545309	0	0	TGCAGAACAGGTAA GTGAAGATCCTGCATA TTGGTCAGGTTGCCAA GGTCCCTGACATCATC ACCCGA	NA	NA	RecName: Full=Disease resistance protein RGA5; AltName: Full=Os11gRG

						A5 [Oryza sativa Japonica Group]
23551956	0	0	TGCAGAGGCCTCCAG ATGAGGAGGTCCG	NA	NA	NA
23546971	0	0	TGCAGCATATCCAGA GTGTCAATAATCGTCG TGTTAACGGATACATC CCAGACATCCAGGCC TGCTTGC	NA	NA	NA
23545643	0	0	TGCAGACGGTCGTAGC TGTGCGGAAGAACCA GATCCATATCCTGTTT CAAGCGGGCTGCTTCC TCTGCC	NA	NA	NA
23552585	0	0	TGCAGCAACCAGGCT GACCATGTAGATGGTC GTGTAAGCCTGCCTAC AGCAGCCG	NA	NA	NA
23558229	0	0	TGCAGGTTATTATTTTC GATCTTCTGGGATACC G	NA	NA	NA

23636976	7	5660 689	TGCAGCGCGCACGGA TCCTCGAGCATTTCCT CGGCAGCGACGAGCA GGCCGCCAGGGGCTT CGCCCGAG	NA	CAGAGCTGGGCGAAGCCCCT GGCGGCCTGCTCGTCGCTGCC GAGGAAATGCTCGAGGATCC GTGCGCGCTGCAGCAGCTCG ACGTCCTCCGCCGTGCACGCC ACCTGCGACATGAAGTAGCA GTAGGCCGTGACGGCCTCTC TTCTTCC	unnamed protein product [Triticum turgidum subsp. durum]
23637849 F 10-8:T>C- 8:T>C	2	4698 7024	TGCAGCAGTCTTAACC AATAGAAATTGCATG CATGCTCATAACGCCG	NA	NA	NA
30290093 F 10-23:C>T- 23:C>T	0	0	TGCAGCGTCCGATTTT TTACCGCCGCCG	NA	NA	NA
23624218 F 10-57:A>G- 57:A>G	5	1510 6536 7	TGCAGGGACTGTAGTC AGGCAGGCACAGGCA AGAACACAGAGAGTT CACGCGCGGACAGTT GACCCCTC	NA	CTGAAATTAACACGGCACGA TACAGACGGGTAAACTGCAG GGACTGTAGTCAGGCAGGCA CAGGCAAGAACACAGAGAGT TCACGCGCGGACGGTTGACCC CTCCTGCTTTACTCCTTTGCGG TCTTGTTGATGAGAGACTTGT GGATGT	NA

23609995 F 10-7:A>G- 7:A>G	2	3918 965	TGCAGAAAACATGAA TTATTCAGGTTGAGGA TCACAACATACAAATT AAAGCATATATATAA CTACTAA	NA	NA	NA
23598317 F 10-40:T>C- 40:T>C	0	0	TGCAGAATATCTCCGC CCCGTGCCGTGGGCCG TGTTGCACTTGCCG	NA	NA	NA
23622543 F 10-16:T>C- 16:T>C	6	4453 2212	TGCAGATGTGGCGTG TGAATTTGGAATTGG GTGATCATGTATGTGC AATTACGATGTGAAC GCACAG	NA	ATCAACAGCACCCGGTCGAGC TTGTCGTCTGCCTGATCTCAG CTTACGAATTGAACCATGCCG AACTAGCTCTTGGATTCTGTG CGTTCACATCGTAATTCGACA TACATGATCACCCAATTCCAA AATTCACACGCCACATCTGC AGTC	NA

23624444 F	3	2570	TGCAGGTGCCACCGA	NA	CCTGGCTTGACATCATAACCTA	NA
10-42:G>C-		1918	ACTGCTCCCAACAAG		TGACACAGTTGCAGAGAGAG	
42:G>C		6	CACGTAAGAAAAGGC		TAAAGCGTCAGTTAGCTCGCA	
			AGGATCAAATCCAAC		GTTTAGCTGCAGGTGCCACCG	
			CCAGATAGT		AACTGCTCCCAACAAGCACG	
					TAAGAAAAGGCAGGATCAAA	
					TCCAACCCAGATAGTTCTGAT	
					TATGAC	

30286830 F	0	0	TGCAGTGCTTCTGGTG	NA	NA	NA
10-29:A>G-			AAGAACGGGAAGAAT			
29:A>G			CAGGGTCGTCTCAGGG			
			ACGTGAGGCCTCTGCC			
			G			

23612073 F	0	0	TGCAGCGCCGCCGCA	NA	CTCGCCGCATCTGCAGCGCC	NA
10-37:T>C-			CGCTGGAGCGCCGAG		GCCGCACGCTGGAGCGCCGA	
37:T>C			CCGCCGCTGCCTCGAT		GCTGCCGCCGCTCGATTAG	
			TCAGGCGCACAGGGG		GCGCACAGGGGTGCAACCGG	
			TGCAACCG*		AGCAAATCATCACCACCAGG	
					AGCCTCCTCGCGTCGAGCCGC	
					ACGTGCTCCGCCGCTCCCAT	
					CGCAGG	

23602072 F	0	0	TGCAGGACGCCTCGG	NA	NA	NA
10-17:C>T-			CGCGGAGCTCGCCGC			
17:C>T			CGCCGACGACGCGCC			
			AGCCG			