

Characterization of maize *roothairless6* which encodes a D-type cellulose synthase and controls the switch from bulge formation to tip growth

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**Supplementary Tables 1 and 2**

**Table S1.** Number of *rth6*-specific Seq-Walking reads recovered per *Mu* insertion site in the mapped interval on chromosome 1 based on maize reference genome AGPv2.

<b><i>Mu</i> sites (bp)</b>	<b>No. of reads</b>
102,196,700	3
102,580,900	5
102,626,800	1
103,419,600	21
104,610,900	22,945
105,325,800	10
105,765,800	3
106,045,500	14
111,201,400	1
111,201,500	11
112,896,100	2
113,445,900	1
115,219,500	31
116,723,900	1
119,214,500	1
124,691,700	44
126,516,200	3
126,775,900	1
129,262,600	2
131,559,500	10
133,526,300	1
138,592,600	4
138,614,400	30
138,952,700	37
140,962,500	43

**Table S2:** Oligonucleotide primers used in this study.

<b>Flanking IDP Markers:</b>	
IDP6931-Fw	5' TTGCATGTAGTGGGAAGTGC 3'
IDP6931-Rv	5' TTAAATGGGCGAACATAGCC 3'
IDP525-Fw	5' TATGGGAGTGAAAGCCATCC 3'
IDP525-Rv	5' GCGTGCTGAGACTTACCTGG 3'
<b><i>Mutator</i> alleles:</b>	
MuTIR	5' AGAGAAGCCAACGCCA(AT)CGCCTC(CT)ATTTTCGTC 3'
<i>rth6-2</i> ( <i>rth6C1R4</i> )	5' GCATGTTGACGTCAAGAAA 3'
<i>rth6-4</i> ( <i>rth6C1R2</i> )	5' ACTCCAGGGAGATCCGACTT 3'
<b><i>Ac/Ds</i> alleles:</b>	
<i>Ac/Ds</i> specific (JSR05)	5' CGTCCCGCAAGTTAAATATGA 3'
<i>rth6-5</i> ( <i>rth6C1R1</i> )	5' CTCCCCTCGGTGTTCTTGT 3'
<i>rth6-6</i> (I.S07.1244A-R)	5' CCCACTCGGTGTTCTTGTAAAG 3'
<b>qRT-PCR</b>	
<i>ZmCsID1</i> -Fw	5' CGGTGGAGCTTCTTGATG 3'
<i>ZmCsID1</i> -Rev	5' AGGAGGGCTGATGTAGAC 3'
<i>ZmCsID2</i> -Fw	5' CAGCCGCACCATCTACAG 3'
<i>ZmCsID2</i> -Rev	5' GTTGATGGCCACCCACAG 3'
<i>ZmCsID3</i> -Fw	5' CCGTTGGCAGTGATCGGTA 3'
<i>ZmCsID3</i> -Rev	5' CCAGCACCCAGAAGCTGAA 3'
<i>ZmCsID4</i> -Fw	5' TCGTTTGGTCGGGACTCATC 3'
<i>ZmCsID4</i> -Rev	5' AAGCTAGGCGGTCGTTGTC 3'
<i>ZmCsID5</i> ( <i>rth6</i> )-Fw	5' CTGGGTGCTTGCTCATCTGT 3'
<i>ZmCsID5</i> ( <i>rth6</i> )-Rev	5' GTTGGCAGCTTGATGGAG 3'
<i>Myosin</i> -Fw	5' AGAAGGCCGTACAGGATCTTACC 3'
<i>Myosin</i> -Rev	5' CAAGGAGAGACTCTGTGAGCTTCA 3'