

Development of New STMS markers for sugarcane

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Primer Name	: NKS 27
Forward Sequence	: tggaatttgggtaaggatgga
Reverse Sequence	: taatgcctctgggctcaaat
Gene Bank accession No. of source sequence	: SHY293502
Type of sequence	: Genomic DNA

Source Sequence:

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1 accgacacacacatctattattgggacaataatgttgccctctgtggattaattatcaaaa
61 gaggtaactaacatgacgacctcaaattttttattttcttatcaacctaataactctagg
121 gagattattatttacagaagcatgcatgccttgcttattggaatttgggtaaggatggatc
181 ttggaattctcattaggttaggcattagctagagcaaattaacctgaggcgtgaatgcgtg
241 atgatgggaatagctaaaaaggccccggccttattaaactagtgagagagagagagaga
301 gagagagagagagagagagagagagggaattcatttcattgagctcaatgattgatgttc
361 aaagcgtatcattaggaaaatttgagcccagaggcattagcctcaaaagaaatcaaatca
421 agcagtttgttctcacatgaggccggggcccatgccacttgtctgagccagctccgtgca
481 ccaacagcctcacaaaccacataccttgagccactgcacgcgggaccgatgtagaga
541 tggcccgcatgtcggtggctggttgaacctgt
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Repeat Motif	: (ga) 20
Total number and names of the germplasm lines tested:	48 (view table)
No. of PCR products amplified	: 7
The size range of the PCR product	: 184 - 260 bp
The general PCR protocol used	: 200 µM of each dNTPs, 6pmol each of the forward and reverse primer, 0.5 units of Taq DNA polymerase

The PCR cycling condition:	Pre-denaturation: 94 ⁰ C (5 min),	
	25 cycles of	Denaturation: 94 ⁰ C (50 sec),
		Annealing : 58 ⁰ C (50 sec),
		Extension : 72 ⁰ C (50 sec) and
	Final extension :	72 ⁰ C (7 min).

Reference: Unpublished