

Development of New STMS markers for sugarcane

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Primer Name	: NKS 28
Forward Sequence	: gtgctgggattctgagcttc
Reverse Sequence	: gcaagttcttggcctttgtt
Gene Bank acesion No. of source sequence	: SHY293503
Type of sequence	: Genomic DNA

Source Sequence:

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1 actgtgttaggaatggataatggagcagtgaggagagaaaatttctatatcactgcactggc
61 tgggtgcgaataatggaagctctttggtgattatgtcaagaggtaattaatgtcaatgttt
121 gagcttgatgcctggactgcagaacataacttggtagacaggaaaatcattgcatattatct
181 agtgtcaagattcatctcacaaatctcctgtagaaacagtggtcataaataactagaggg
241 ggccaccagtgctaaaatagctcaattagcaatgtttaaacacgattaagtataaaactt
301 caaagcaatatggaaaattagggagggccatggccttttggcctcaatgaagctccgcc
361 gtctagaaatatggcaccacaaacatccctcaactttttaacacctttgttttctggtca
421 tggctttcaaggcgctcgctaagcgatgaggcgtgctgggattctgagcttcctggccgcc
481 acganaaaaaaaaaaagagagagagagagagagagagagagagagagagagagagaga
541 gagagagagggagagagagagagagagagagagagggtttaatgcaagaatgggtggggagct
601 gcccaagcccaacaaaggccaagaacttgccgcctccggtnagctgtggt
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Repeat Motif	: (ag) 27
Total number and names of the germplasm lines tested:	48 (view table)
No. of PCR products amplified	: 11
The size range of the PCR product	: 81 - 194 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Reference: Unpublished.