

Development of New STMS markers for sugarcane

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Primer Name	: NKS 17
Forward Sequence	: gctcgccatgaatagaaagg
Reverse Sequence	: accgaggtaggagggagtgt
Gene Bank acesion No. of source sequence	: SHY293490
Type of sequence	: Genomic DNA

Source Sequence:

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1  aaccaatcttcaccaaggacgaaacagcacaaaagcctggaagttgcttatttcggcaaa
61  catctaactacgcaaccatagaacttgaccagcattggcttcaacattttgccattctc
121 tcttgaaaaattaggcaactttatgactagggggtgtttgttcctgcagcacgttgcca
181 cgcctaacttgca gctcgccatgaatagaaagg aggggtgttctgttgagcatgcaggtgt
241 ggcacccacagattagggtt agagagagagagagagagagagag agagagagagagagag
301 agagagagttgatggactagctcggttttcaaaaccaaaccctctaagtcttattcttg
361 aattagaaaactaggacattatagtcgcgcgaagaagccacggaagagctca acactccc
421 tcttacctcgg tagtttcgggtctgacagaaactaaacagttgacattgcacctctccaag
481 ttagcaccgagataactggaaatcttcgagcttcacacagggggacgaaagcacagttgct
541 gattgtaagaaacagtggtctcaccacagaaccctccttgctagcggttgatgggggtatg
601 catccgctcgacgattctgttgatagcagcccgagtcattacaaggggtgtcatgctgaa
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Repeat Motif	: (ag) 24
Total names of the germplasm lines tested	: 48 (view table)
No. of PCR products amplified	: 3
The size range of the PCR product	: 207 – 226 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°C (5 min),	
	25 cycles of	Denaturation: 94°C (50 sec),
		Annealing : 64°C (50 sec),
		Extension : 72°C (50 sec) and
	Final extension : 72°C (7 min).	

Reference: Unpublished