

Development of New STMS markers for sugarcane

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Primer Name	: NKS 20
Forward Sequence	: cagccaagggtagaaaaag
Reverse Sequence	: ttttactatgcaccaagatacacg
Gene Bank accession No. of source sequence	: SHY293494
Type of sequence	: Genomic DNA

Source Sequence:

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1  acaaattagtgagaactgatcgggccgggaatccttccgatgcaaccgaacagggcctt
61  aaacaagaacaattcagattcatagcattcagttttgtgatccaagaggatggagttat
121 tttgaatatggaatctgatgccagaaaattgctcaaggttatgcatgtnatgccattgc
181 tcggggacaagcaatgtttttaggggtggaaatgtaaccctgatgacgagtaaagtgtc
241 acgtctaagtgatttagctgacactgacaggtgagccaaccatctatgagaccaggtag
301 aagatctgatgggtgtgtcgtcccaaaagtcagaaaggcaaacacaggccatctctgatt
361 tctccctgttactagtttctactcacgccccggccttgacctcaccagcagccaaggg
421 tgagaaaaagttactaacaatgagcacacatccttggctagatgtgactcagagcagaaaag
481 tccctaaccattactcactccatatcaaattgtaatttttttggctttcctaaatacat
541 agtttcttactatggtctcgagagagagagagagagagagagagagagagagagagcgtg
601 tatcttggtgcatagtaaaatctatgt
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Repeat Motif	: (ga) 18
Total names of the germplasm lines tested	: 48 (view table)
No. of PCR products amplified	: 6
The size range of the PCR product	: 136 - 350 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 : 56°C (50 sec),
		Extension : 72°C (50 sec) and
	Final extension :	72°C (7 min).

Reference: Unpublished