

Development of New STMS markers for sugarcane

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Primer Name	: NKS 22
Forward Sequence	: gctaagttgccggatgagaa
Reverse Sequence	: gtgatggcgtgaacaatgac
Gene Bank acesion No. of source sequence	: SHY293497
Type of sequence	: Genomic DNA

Source Sequence:

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1 aacaaatgctagtagtgtgcagtgcttatatttcagaaaaaatcaaactttcatgaaga
61 tcaaattgattaaagcatgagcaggtctataaaatcaaaaaaatcagacaaacagcattt
121 gcgcaaaatattcttgtgctaagttgccggatgagaaatatgagagagagagagagagaga
181 gagagagagagagagatttcatggaggagtgggtatcacctgtatctgcttcttctgaagata
241 gagggaagcaaaggggggctggctgcctttatacatgggtctacagagttcctcatctcga
301 gtttatttttctgaaagtgcattgttcacgccatcacctgtcctgctgtcccactagatat
361 cacagataaggaaaatgtcaaactataagtgcagaaattaagtaaattggagangtttata
421 gt
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Repeat Motif	: (ga) 17
Total number and names of the germplasm lines tested:	48 (view table)
No. of PCR products amplified	: 8
The size range of the PCR product	: 169 - 343 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 : 49 ⁰ C (50 sec),
	Extension : 72 ⁰ C (50 sec) and
	Final extension : 72 ⁰ C (7 min).

Reference: Published