

Development of New STMS markers for sugarcane

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Primer Name	: NKS 33
Forward Sequence	: acaggagcgcttggagatta
Reverse Sequence	: gagcagaagggctagaagca
Gene Bank accession No. of source sequence	: SHY293564
Type of sequence	: Genomic DNA

Source Sequence:

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1 aacgtgcctataagcgagaaactctttataggaggagacctcaacggccatgttcgtgcg
61 actaatgtaggtttcgagcgggtgcacggggggttcgggtatagtagtaggaatcaagag
121 ggggaggatattttgaacttcgcgctggcctatgacttggtgatagcgaacaccctat
181 aggaagaggggaatntcatctagtaacctttcgtagtggacaatactcgagccagatcgac
241 tttatccttgcaaggagggaggatagacgtgcttgctttgattgtaaggtgttacttggg
301 gagtgtgttatccctcaacataagcttgtggtggcggactttcactttcgggtacggaac
361 gacgatattcgagaaaggggttgggtggcaccaattgaggagaaattgattcaacatcgg
421 ttgagatgggtttggacatgtccaacggaggcctcctgaggcgccggtgcgtagtgaggt
481 ctaaagcggggccgataatgtaaagagcggtagaggtcgacctaaattaacttgggacgag
541 ttcgttaagagagatcttaaggagtggaaatcccccaaggatttagctatggacaggagc
601 gcttggagattagcaattaacgtgccttaaccgtgacatcttttgtcttgtgccctttat
661 gtccctttatgtgtttccctgtttctcgtctcttttgggtttcatctctagcctacccca
721 acttgctcgggacaaaaggctatgtttgttgttgttgttgccttcttagcccttctg
781 ctcctcgtcctccccacctcgggtggcatctggatagacatgtgcgaatgggatcaggata
841 tgtgacgatgagatataaagag
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Repeat Motif	: (tgt) 6
Total number and names of the germplasm lines tested:	48 (view table)
No. of PCR products	: 3
The size range of the PCR product	: 111 - 178 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 : 57⁰ C (50 sec),
Extension : 72⁰ C (50 sec) and
Final extension : 72⁰ C (7 min).

Reference: Unpublished