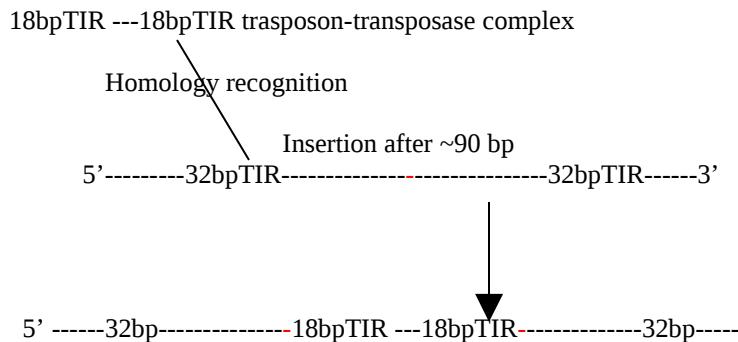
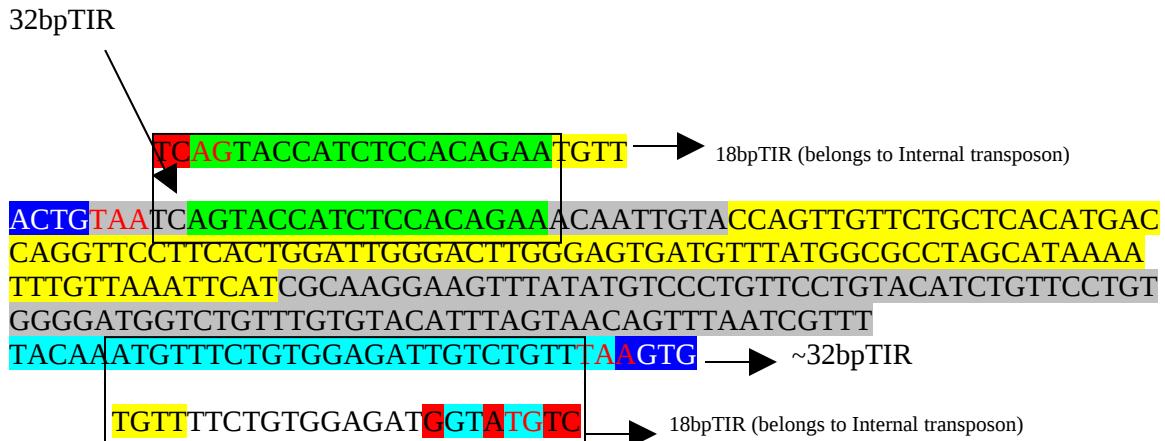


If we remove the internal transposon of AsDRF1, the size will become 253bp as follows:  
This was possibly existed (perhaps MITES) before the insertion of internal transposon.



#### Homology comparison between 18bp and 32bp TIR in AsDRF1

ACTGTAATTCAGTACCATCTCCACAGAAACAATTGTA ~32bp (3+1mismatch)+ 4bpTSD(single mismatchACTG)

TCAGTACCATCTCCACAGAA TGTT 18bp TIR (2mismatch AG) + 2bp TSD (TC) + ITSD-TGTT

TTACAAATGTTCTGTGGAGATTGTTAAGTG ~31bpTIR(3+1mismatch)+4bpTSD (single mismatchACTG)

TGTT TTCTGTGGAGATGGTATCTC 18bp TIR (2mismatch TG)+ 2bp TSD (TC)+ ITSD-TGTT

32bp TIR showing 3 mismatches and 1 deletion at 3'.

603	TAATTCAGTACCATCTCCACAGAAACAATTGTA	634
2042	ATTGTC-TGTTAGAGGTGTCTTGAAACAT	2012

Homology: 18bp TIR has a similarity with 18bp of ~32bp TIR at 5',  
but 16bp are similar of ~32bp TIR at 3' end