

Supplementary material:

Table 1: Distribution of EST-SSRs in different chromosomes identified from EST database of *Fusarium graminearum*

Chromosome	Mono-	Di-	Tri-	Tetra-	Penta-	Hexa-	Total
Chromosome 1	366	133	87	18	6	1	611
Chromosome 2	239	68	49	3	4	5	368
Chromosome 3	201	56	50	4	3	5	319
Chromosome 4	248	79	50	9	8	3	397
Unmapped	9	1	0	0	0	0	10
Total	1063	337	236	34	21	14	1705

Table 2: Frequency of mononucleotide repeats in different chromosomes of *Fusarium graminearum* genome

Chromosome	A	T	G	C	Total
Chromosome 1	163	155	27	21	366
Chromosome 2	111	102	9	17	239
Chromosome 3	95	75	14	17	201
Chromosome 4	116	105	13	14	248
Unmapped	7	2	0	0	9
Total	492	439	63	69	1063

Table 3: Different types of di-, tri-, tetra-, penta- and hexa-nucleotide repeat motifs

Repeats	Motifs
Di-nucleotide	AC, AG, AT, CA,CG,CT, GA, GC, GT, TA, TC, TG
Tri-nucleotide	AAC, AAG, AAT, ACA, ACC, AGA, AGC, AGG, ATA, ATC, ATG, ATT, CAA, CAC, CAG, CAT, CCA, CCT, CGA, CGT, CGG, CTA, CTC, CTG, CTT, GAA, GAC, GAG, GAT, GCA, GCC, GCT, GGA, GGC, GGT, GTA, GTC, GTG, GTT, TAC, TAG, TAT, TCA, TCC, TCG, TCT, TGA, TGC, TGT, TGG, TTA, TTC, TTG
Tetra-nucleotide	AATC, ACTC, AGGT, AGTG, ATAC, ATAG, CAAG, CACT, CAGG, CATA, CATC, CATT, CTAT, CTGG, CTTT, GATG, GGAT, GTGA, TAGA, TAGG, TATC, TAGT, TCAA, TCCA, TCTT, TGAC, TTCC, TTCT, TTGC
Penta-nucleotide	ACACG, AGACC, CTTTT, GATGC, GCAAG, GTAAA, GTCTC, TGGAC, TGGTA, TTGCG, AGCAC, AGTCT, ATATC, CTCTG, GCATC, GTATG, GTTTG, TATGC, TCTGG, TGCTC
Hexa-nucleotide	AGAGCC, CTTCGA, GATAAG, TCAGGA, TCTGGC, TGAAGA, AAGCCC, ACTTAG, CAAAGC, CCCTAA, GAAGAG, GCAGAG, GTTGCC, TCATCC