

SUPPLEMENTARY DATA

Table S1: Physicochemical characteristics of the experimental field

Soil Properties	Value
Sand (%)	22
Silt (%)	66
Clay (%)	12
Ph	6.0
OC (%)	0.48
N (%)	0.15
P (ppm)	101.5
K (ppm)	0.962

Table S2: Analysis of sequenced data and diversity evaluation of the shotgun metagenomes of the maize plant from across the fertilizers sites

Sampling sites	CZ	FZ	NZ
Uploading Information			
bp count	1613298509	1493819190	2651625071
Sequence count	10302312	14294172	17449497
Mean sequence length	158±72bp	154±72bp	154±70bp
Mean GC content (%)	44±9%	43±9%	47±11%
Post QC Information			
bp count	334259767	415505341	817699487
Sequence count	1765870	2171450	2176034
Mean sequence length	165±72bp	192±72bp	185±69bp
Mean GC content (%)	44±8%	44±8%	49±10%
Processed reads			
Identified protein features	325439	371329	643141
Identified rRNA features	9808	19073	47651
Aligned reads			
Identified protein features	86032	105456	177507
Identified rRNA features	2208	2053	2957

Values presented in the table are the means of the three replicates from each farming site. bp= basepair, GC= guanine, cytosine, QC=Quality control. NZ= samples from the inorganic farming site, FZ= samples from the organic farming site, CZ= samples from no fertilizer site