

Supplementary 1: Quality control and filtering of transcriptome raw reads of *Cosmos caudatus*.

Sample	Raw		Clean		Low Quality reads
	Read	Base	Reads	Basepair	
Root	74,771,394	11,290,480,494	68,120,202 (91.1%)	9,603,267,314 (85.1%)	5,981,224 (8.0%)
Flower	65,620,134	9,908,640,234	60,354,324 (92.0%)	8,278,022,640 (83.5%)	4,675,834 (7.1%)
Leaf	59,686,746	9,012,698,646	55,512,786 (93.0%)	7,404,105,961 (82.2%)	3,619,694 (6.1%)
Stem	63,085,464	9,525,905,064	58,986,400 (93.5%)	8,007,932,148 (84.1%)	3,732,000 (5.9%)



Supplementary 4: Domain Search Using Interproscan Software. A) F3H; B) DFR; C) LDOX; D) UFGT.