

Additional file

Table S1 Assessment of assembly quality for two *T. sinensis* libraries

Sample	Raw Reads	Clean Reads	Clean Bases	Error(%)	Q20(%)	Q30(%)	GC Content(%)
XC_L_4_1	22841245	21306359	2.13G	0.04	96.92	90.41	45.09
XC_L_4_2	22841245	21306359	2.13G	0.03	97.47	91.99	45.09
XC_L_6_1	30874262	29687215	2.97G	0.03	97.23	91.35	43.44
XC_L_6_2	30874262	29687215	2.97G	0.03	97.62	92.55	43.46

Table S2. RPKM values and comparison of DEGs in Lysine biosynthesis pathway under the condition of XC_L_4 vs XC_L_6

Gene ID	RPKM value (XC_L_4)	RPKM value (XC_L_6)	Log ₂ ^{-Fold change}	KO Name
comp45867_c0	42.6664	6.6216	2.6879	Aspartate kinase (LysC) [EC:2.7.2.4]
comp47995_c0	50.9807	14.3693	1.827	Homoserine dehydrogenase [EC:1.1.1.3]
comp43865_c0	50.5255	7.4672	2.7584	Aspartate-semialdehyde dehydrogenase (Asd)[EC:1.2.1.11]
comp45016_c0	98.7750	35.3986	1.4805	4-hydroxy-tetrahydrodipicolinate synthase (DapA) [EC:4.3.3.7]
comp41544_c0	108.9146	40.1190	1.4408	4-hydroxy-tetrahydrodipicolinate reductase (DapB) [EC:1.17.1.8]
comp43351_c0	84.9979	23.3191	1.8659	LL-diaminopimelate aminotransferase (ll-DAP-AT/DapL), [EC:2.6.1.83]
comp45712_c0	74.5592	20.7871	1.8427	Diaminopimelate decarboxylase(LysA) [EC:4.1.1.20]

Table S3. Comparative N50 and average length with other plant species recently published in transcriptome data

Species	N50 (bp)	Average length (bp)	Reference
<i>Toona sinensis</i>	1,304	764	In the paper
<i>Reaumuria soongorica</i>	1,109	677	Shi et al., 2013 ^[23]
<i>Haloxylon ammodendron</i>	1,345	728	Long et al., 2014 ^[22]
<i>Salvia splendens</i>	1,304	772	Ge et al., 2014 ^[33]
<i>Physalis peruviana</i>	1,438	743	Garz ún-Mart ínez et al, 2012 ^[20]
<i>Quercus pubescens</i>	910	618	Torre et al., 2014 ^[21]

