

Table S1. Statistics of raw reads for transcriptome in *C. mollissima* 'Tanqiao'

Sample	Raw reads	Raw bases	Clean reads	Clean bases	Q20(%)	Q30(%)	GC content(%)
B0_1	55257766	8288664900	54593542	8080704122	97.07	92.23	43.92
B0_2	75840052	11376007800	74935842	11035337548	97.04	92.17	43.98
B0_3	83454564	12518184600	82512416	12085061643	97.24	92.62	45.07
B1_1	79176524	11876478600	78296304	11511704076	97.25	92.64	44.68
B1_2	75957078	11393561700	74568374	10656729373	97.24	92.63	44.51
B1_3	60699700	9104955000	59906296	8623130677	97.19	92.52	44.09
F1_1	79831128	11974669200	78801574	11438305392	97.14	92.41	44.77
F1_2	60252838	9037925700	59499766	8645713345	97.1	92.35	45.37
F1_3	69193232	10378984800	67915910	9910311755	97.16	92.46	44.41
F2_1	81843074	12276461100	80822486	11739772169	97.12	92.35	44.21
F2_2	72948924	10942338600	72079286	10422982748	97.2	92.53	44.59
F2_3	86311810	12946771500	85001340	12456273840	97.13	92.4	43.86
F3_1	83550252	12532537800	82158836	11733557595	97.19	92.54	44.81
F3_2	65292536	9793880400	64460678	9529095254	96.97	92.04	44.24
F3_3	64364600	9654690000	63571178	9305330629	97	92.12	44.7
F4_1	75278630	11291794500	74257726	10746671147	97.12	92.37	44.61
F4_2	45693754	6854063100	44888500	6346152147	96.98	92.11	44.78
F4_3	53375714	8006357100	52574460	7604658850	97.03	92.22	42.69
M1_1	93088634	13963295100	92017430	13455637205	97.17	92.45	42.94
M1_2	67809912	10171486800	67118966	9874506639	97.27	92.63	43.59
M1_3	73968224	11095233600	73133190	10687004019	97.21	92.51	43.92
M2_1	44263092	6639463800	43520792	6312610361	97.14	92.43	42.21
M2_2	47509060	7126359000	46865258	6807953253	97.16	92.43	42.8
M2_3	80363358	12054503700	79475086	11537219747	97.44	93.02	42.97
M3_1	85374010	12806101500	84366028	12223698549	97.28	92.7	44.31
M3_2	88071132	13210669800	86892882	12558764651	97.09	92.31	44.22
M3_3	77846018	11676902700	75682790	10783626955	97.11	92.35	44.12
M4_1	82497072	12374560800	80007438	11631403041	97.99	94.36	43.06
M4_2	132895064	19934259600	130108838	18698564708	98.2	94.75	43.99
M4_3	66245236	9936785400	59248208	8331489809	96.74	92.44	42.94
Total	2208252988	3.31238E+11	2169281420	3.14774E+11	~	~	~

Table S2. Data of clean reads mapping to reference chestnut genome in each stage

Sample	Total reads	Total mapped	Multiple mapped	Uniquely mapped
B0_1	54593542	50448132(92.41%)	2451369(4.49%)	47996763(87.92%)
B0_2	74935842	69384251(92.59%)	2788443(3.72%)	66595808(88.87%)
B0_3	82512416	76806636(93.08%)	6160557(7.47%)	70646079(85.62%)
B1_1	78296304	72675109(92.82%)	3320722(4.24%)	69354387(88.58%)
B1_2	74568374	69439619(93.12%)	3676807(4.93%)	65762812(88.19%)
B1_3	59906296	55456095(92.57%)	2629763(4.39%)	52826332(88.18%)
F1_1	78801574	73015411(92.66%)	3976827(5.05%)	69038584(87.61%)
F1_2	59499766	54942903(92.34%)	5961960(10.02%)	48980943(82.32%)
F1_3	67915910	63492658(93.49%)	2742401(4.04%)	60750257(89.45%)
F2_1	80822486	74788699(92.53%)	3755076(4.65%)	71033623(87.89%)
F2_2	72079286	66787520(92.66%)	3297275(4.57%)	63490245(88.08%)
F2_3	85001340	78497303(92.35%)	5127043(6.03%)	73370260(86.32%)
F3_1	82158836	76456554(93.06%)	4698586(5.72%)	71757968(87.34%)
F3_2	64460678	59791446(92.76%)	2164032(3.36%)	57627414(89.4%)
F3_3	63571178	58735564(92.39%)	3210968(5.05%)	55524596(87.34%)
F4_1	74257726	68504636(92.25%)	3756809(5.06%)	64747827(87.19%)
F4_2	44888500	41493109(92.44%)	9150016(20.38%)	32343093(72.05%)
F4_3	52574460	48558214(92.36%)	1930233(3.67%)	46627981(88.69%)
M1_1	92017430	85225230(92.62%)	3585167(3.9%)	81640063(88.72%)
M1_2	67118966	62463033(93.06%)	2440505(3.64%)	60022528(89.43%)
M1_3	73133190	68425264(93.56%)	9583617(13.1%)	58841647(80.46%)
M2_1	43520792	40758863(93.65%)	2317804(5.33%)	38441059(88.33%)
M2_2	46865258	43741027(93.33%)	2005810(4.28%)	41735217(89.05%)
M2_3	79475086	74389874(93.6%)	3089957(3.89%)	71299917(89.71%)
M3_1	84366028	78547643(93.1%)	3492523(4.14%)	75055120(88.96%)
M3_2	86892882	80643279(92.81%)	4507988(5.19%)	76135291(87.62%)
M3_3	75682790	70570558(93.25%)	2975971(3.93%)	67594587(89.31%)
M4_1	80007438	73556543(91.94%)	3266268(4.08%)	70290275(87.85%)
M4_2	130108838	119941810(92.19%)	5310655(4.08%)	114631155(88.1%)
M4_3	59248208	51395604(86.75%)	3110821(5.25%)	48284783(81.5%)