

Transcriptome sequencing and marker development in winged bean (*Psophocarpus tetragonolobus*; Leguminosae)

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**Corresponding authors:*

Ashley N. Egan (primary) N. Sathyanarayana (secondary)

Supplementary File 7. Kunitz trypsin inhibitor tree file. Nexus tree file for kunitz trypsin inhibitor amino acid gene tree illustrated in Figure 7.

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    Gm_Q9LLX2_1_156
    Gm_C6SVQ6_27_199
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    pv_V7C2P7_85_148
    pv_V7C2N3_57_172
    pv_V7C2M9_33_202
    Mt_G7KMU7_31_203
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    Mt_G7KMU3_32_207
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    Mt_G7KMU9_213_383
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260 At_Q9M8Y8_71_237,  
261 At_Q0WNE5_30_196,  
262 At_Q7Y212_38_204
```

```
;
```

```
tree con_50_majrule = [&U]
```

```
(1[&prob=1.00000000e+00,prob_stddev=0.00000000e+00,prob_range={1.00000000e+00,1  
.00000000e+00},prob(percent)="100",prob+-sd="100+-0"]:7.492319e-  
02[&length_mean=7.72733763e-02,length_median=7.49231900e-  
02,length_95%HPD={3.63762600e-02,1.24479800e-  
01}],(4[&prob=1.00000000e+00,prob_stddev=0.00000000e+00,prob_range={1.00000000  
e+00,1.00000000e+00},prob(percent)="100",prob+-sd="100+-0"]:2.997606e-  
02[&length_mean=3.17726682e-02,length_median=2.99760600e-  
02,length_95%HPD={6.00517700e-03,5.99744600e-  
02}],((((5[&prob=1.00000000e+00,prob_stddev=0.00000000e+00,prob_range={1.00000  
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03[&length_mean=4.95814630e-03,length_median=3.33097300e-  
03,length_95%HPD={9.94258800e-07,1.50743300e-  
02}],6[&prob=1.00000000e+00,prob_stddev=0.00000000e+00,prob_range={1.00000000e+  
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02}],7[&prob=1.00000000e+00,prob_stddev=0.00000000e+00,prob_range={1.00000000e+  
00,1.00000000e+00},prob(percent)="100",prob+-sd="100+-0"]:3.365992e-  
03[&length_mean=4.93727300e-03,length_median=3.36599200e-  
03,length_95%HPD={2.05906400e-07,1.50495100e-02}]) [&prob=9.99729730e-  
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01,1.00000000e+00},prob(percent)="100",prob+-sd="100+-0"]:1.034371e-  
01[&length_mean=1.04809958e-01,length_median=1.03437100e-  
01,length_95%HPD={5.76482200e-02,1.57444300e-  
01}],8[&prob=1.00000000e+00,prob_stddev=0.00000000e+00,prob_range={1.00000000e+  
00,1.00000000e+00},prob(percent)="100",prob+-sd="100+-0"]:8.119736e-  
02[&length_mean=8.35425082e-02,length_median=8.11973600e-
```

02, length_95%HPD={3.83351700e-02, 1.31104300e-01}) [&prob=7.47837838e-01, prob_stddev=1.03199368e-02, prob_range={7.40540541e-01, 7.55135135e-01}, prob(percent)="75", prob+-sd="75+-1"]: 3.105957e-02 [&length_mean=3.30658827e-02, length_median=3.10595700e-02, length_95%HPD={3.83686200e-03, 6.76066000e-02}], (((12 [&prob=1.00000000e+00, prob_stddev=0.00000000e+00, prob_range={1.00000000e+00, 1.00000000e+00}, prob(percent)="100", prob+-sd="100+-0"]: 3.412386e-03 [&length_mean=4.97573468e-03, length_median=3.41238600e-03, length_95%HPD={2.35370700e-06, 1.50855800e-02}], 13 [&prob=1.00000000e+00, prob_stddev=0.00000000e+00, prob_range={1.00000000e+00, 1.00000000e+00}, prob(percent)="100", prob+-sd="100+-0"]: 3.430612e-03 [&length_mean=4.92838358e-03, length_median=3.43061200e-03, length_95%HPD={5.39264500e-06, 1.48820700e-02}]) [&prob=1.00000000e+00, prob_stddev=0.00000000e+00, prob_range={1.00000000e+00, 1.00000000e+00}, prob(percent)="100", prob+-sd="100+-0"]: 1.320869e-01 [&length_mean=1.33857819e-01, length_median=1.32086900e-01, length_95%HPD={7.55395000e-02, 1.97222800e-01}], (((21 [&prob=1.00000000e+00, prob_stddev=0.00000000e+00, prob_range={1.00000000e+00, 1.00000000e+00}, prob(percent)="100", prob+-sd="100+-0"]: 1.828319e-01 [&length_mean=1.85134812e-01, length_median=1.82831900e-01, length_95%HPD={1.17244600e-01, 2.56910500e-01}], 22 [&prob=1.00000000e+00, prob_stddev=0.00000000e+00, prob_range={1.00000000e+00, 1.00000000e+00}, prob(percent)="100", prob+-sd="100+-0"]: 9.163630e-02 [&length_mean=9.38106375e-02, length_median=9.16363000e-02, length_95%HPD={4.21859200e-02, 1.47923600e-01}]) [&prob=7.08918919e-01, prob_stddev=1.94932140e-02, prob_range={6.95135135e-01, 7.22702703e-01}, prob(percent)="71", prob+-sd="71+-2"]: 5.005172e-02 [&length_mean=5.28569015e-02, length_median=5.00517200e-02, length_95%HPD={9.39640000e-03, 1.01418800e-01}], (23 [&prob=1.00000000e+00, prob_stddev=0.00000000e+00, prob_range={1.00000000e+00, 1.00000000e+00}, prob(percent)="100", prob+-sd="100+-0"]: 6.956529e-03 [&length_mean=8.52931826e-03, length_median=6.95652900e-03, length_95%HPD={5.13772200e-06, 2.14545300e-02}], 24 [&prob=1.00000000e+00, prob_stddev=0.00000000e+00, prob_range={1.00000000e+00, 1.00000000e+00}, prob(percent)="100", prob+-sd="100+-0"]: 3.979665e-03 [&length_mean=5.55740844e-03, length_median=3.97966500e-03, length_95%HPD={1.32589300e-06, 1.58978100e-02}]) [&prob=1.00000000e+00, prob_stddev=0.00000000e+00, prob_range={1.00000000e+00, 1.00000000e+00}, prob(percent)="100", prob+-sd="100+-0"]: 1.054367e-01 [&length_mean=1.08800359e-01, length_median=1.05436700e-01, length_95%HPD={5.20876800e-02, 1.74498500e-01}]) [&prob=9.98918919e-01, prob_stddev=1.52887953e-03, prob_range={9.97837838e-01, 1.00000000e+00}, prob(percent)="100", prob+-sd="100+-0"]: 2.096656e-01 [&length_mean=2.10773032e-01, length_median=2.09665600e-01, length_95%HPD={7.82894400e-02, 3.48140300e-01}], 234 [&prob=1.00000000e+00, prob_stddev=0.00000000e+00, prob_range={1.00000000e+00, 1.00000000e+00}, prob(percent)="100", prob+-sd="100+-0"]: 8.868003e-01 [&length_mean=8.94706693e-01, length_median=8.86800300e-01, length_95%HPD={6.57082900e-01, 1.17093200e+00}]) [&prob=5.16756757e-01, prob_stddev=5.65685425e-02, prob_range={4.76756757e-01, 5.56756757e-01}, prob(percent)="52", prob+-sd="52+-6"]: 1.045945e-01 [&length_mean=1.09590205e-01, length_median=1.04594500e-01, length_95%HPD={1.72552500e-02, 2.07810700e-01}], 25 [&prob=1.00000000e+00, prob_stddev=0.00000000e+00, prob_range={1.00000000e

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02[&length_mean=3.35692326e-02,length_median=3.15533900e-
02,length_95%HPD={7.64624100e-03,6.20982200e-
02}],3[&prob=1.00000000e+00,prob_stddev=0.00000000e+00,prob_range={1.00000000e+
00,1.00000000e+00},prob(percent)="100",prob+-sd="100+-0"]:8.824597e-
02[&length_mean=8.99490008e-02,length_median=8.82459700e-
02,length_95%HPD={4.75240000e-02,1.38376900e-01}][&prob=6.47297297e-
01,prob_stddev=1.26132561e-02,prob_range={6.38378378e-01,6.56216216e-
01},prob(percent)="65",prob+-sd="65+-1"]:3.003010e-02[&length_mean=3.19575455e-


```
02,length_median=3.00301000e-02,length_95%HPD={3.55011000e-03,6.18335100e-  
02}]);  
end;
```