

Table 1 Suppl. Primers for real-time quantitative PCR reactions (F - forward, R - reverse).

Target gene	Primer sequence (5'-3')	Annealing temperature [°C]	Product size [bp]
<i>DXR</i>	F:TATGCGATTGCCGATCCTCTACAC	60.54	121
<i>DXR</i>	R:AAGAACTCCCGTCATTGTGCCTC	59.60	
<i>HMGCS2</i>	F:GTAGATTCGCCAGGCTCCAGAGT	59.34	101
<i>HMGCS2</i>	R:CCAATTCACAGCAGCAGGCTTTTAA	59.87	
<i>HMGCS3</i>	F:GAACATGGTCTCCAAAGGGGTTC	59.56	92
<i>HMGCS3</i>	R:GGGCAGGCACATTAGTTTTTCAGC	60.12	
<i>TPS6</i>	F:CTTCAATTCCGGCTACTTAGACAAC	60.04	129
<i>TPS6</i>	R:GTCCAAGCTTCATCAAGTATGGTTTC	60.11	
<i>TPS7</i>	F:GCCGTCCCCGATAATGATACCAAG	60.67	115
<i>TPS7</i>	R:TAGCATGTGCTTCTATGCCGAAG	60.51	
<i>TPS8</i>	F:CAATGCGGTGGATTCAATCGGAG	57.17	81
<i>TPS8</i>	R:GCCTTGAAGTTGCTCCTCGTGC	58.82	
<i>TPS9</i>	F:TATTCTTTAGGCACCTCCGCTCC	58.23	126
<i>TPS9</i>	R:CCTCCGAACATTTATCCTCCGTG	57.49	
<i>TPS12</i>	F:TATGAATTGGCACGAGGGGACAA	61.58	150
<i>TPS12</i>	R:TCAAACAGGCACCGAGGAAAGGT	59.07	
<i>TPS14</i>	F:CGAGCATCTCAAAAACCATAATCGC	60.03	83
<i>TPS14</i>	R:CAACGTGTTGAAGTTCGTAGCAGA	59.23	
<i>TPS15</i>	F:ACAAGTGGTCAATGCATGGAAGG	60.22	107
<i>TPS15</i>	R:TGGATCGACGTACAGAGAAGTCAC	58.13	
<i>TPS16</i>	F:ACCTGAAGGAGGTCCATTGGTGC	61.03	95
<i>TPS16</i>	R:CATTGATGAGTCGAAGCATCTTGC	60.16	
<i>TPS17</i>	F:ATCACCCACGAGTAGAAGAGTAC	61.31	115
<i>TPS17</i>	R:GGTAGCGAGATCATTGGTAAGACG	60.00	
<i>Eucalyptus Actin</i>	F:AGATGACCCAGATTATGTTTGAGACCTTC	59.70	146
<i>Eucalyptus Actin</i>	R:ACCATCACCAGAATCCAACACAATACC	57.33	

Table 2 Suppl. Content of volatiles in young leaves of *Eucalyptus camaldulensis* (R.T. - Retention time).

R.T.	Relative content [%]	Chemical name
5.044	0.03	cyclopentene, 3-ethylidene-1-methyl
5.233	0.51	bicyclo[3.1.0]hex-2-ene, 2-methyl-5-(1-methylethyl)
5.461	3.76	alpha-pinene
5.793	0.12	camphene
6.623	3.93	beta-pinene
7.619	10.25	1,4-cyclohexadiene, 1-methyl-4-(1-methylethyl)
7.659	6.65	alpha-phellandrene
8.797	31.53	1,8-cineole
9.072	12.12	limonene
9.135	0.04	benzeneacetaldehyde
9.513	0.05	1,3,6-octatriene, 3,7-dimethyl
10.611	3.63	cyclohexene, 1-methyl-4-(1-methylethylidene)
10.949	0.03	1,6-octadien-3-ol, 3,7-dimethyl
11.143	0.14	butanoic acid, 3-methyl-, 3-methylbutyl ester
11.241	0.02	<i>n</i> -amyl isovalerate
11.458	0.09	bicyclo[2.2.1]heptan-2-ol, 1,3,3-trimethyl
11.773	0.18	cyclohexene, 4-methylene-1-(1-methylethyl)
12.477	0.13	bicyclo[3.1.0]hexan-2-ol, 2-methyl-5-(1-methylethyl)-, (1.alpha.,2.alpha.,5.alpha.)
12.791	0.02	bicyclo[2.2.1]heptan-2-ol, 2,3,3-trimethyl-
13.289	0.03	3-Heptyne
13.547	0.10	borneol
13.627	0.15	4-methyl-1,3-heptadiene (c,t)
13.775	0.12	cyclohexene, 1,2-dimethyl
14.130	1.51	3-cyclohexen-1-ol, 4-methyl-1-(1-methylethyl)
14.359	0.04	<i>cis</i> -4a-methyl-decahydronaphthalene
14.720	1.15	3-cyclohexene-1-methanol, .alpha.,.alpha.4-trimethyl
14.823	0.17	3-carene
15.126	0.40	bicyclo[3.1.0]hexan-3-ol, 4-methylene-1-(1-methylethyl)-, acetate
15.343	0.11	2-cyclohexen-1-ol, 3-methyl-6-(1-methylethyl)
15.469	0.04	1,3-cycloheptadiene
15.818	0.06	2-cyclohexen-1-ol, 2-methyl-5-(1-methylethenyl)
16.213	0.11	2,6-octadienal, 3,7-dimethyl-, (Z)
16.608	0.14	bicyclo[3.1.0]hexan-3-ol, 4-methylene-1-(1-methylethyl)-, (1.alpha.,3.alpha.,5.alpha.)
16.751	0.13	hexyl isovalerate
16.963	0.07	cyclohexanone, 2-methylene-5-(1-methylethyl)
17.237	0.05	2-cyclohexen-1-one, 3-methyl-6-(1-methylethyl)
17.334	0.04	2,6-octadien-1-ol, 3,7-dimethyl-, (E)
19.612	0.21	3-methyl-4-isopropylphenol
20.287	0.04	4,7-methano-1H-indene, 2,4,5,6,7,7a-hexahydro
20.922	0.08	2-oxabicyclo[2.2.2]octan-6-ol, 1,3,3-trimethyl-, acetate
21.706	0.14	eugenol
21.866	0.05	fumaric acid, cyclohex-3-enylmethyl hexyl ester
22.118	0.09	isodene
22.244	0.03	copaene
23.091	0.03	tricyclo[6.3.0.0(2,4)]undec-8-ene,3,3,7,11-tetramethyl
23.165	0.04	butanoic acid, 3-methyl-, phenylmethyl ester
23.360	0.03	2-cyclopenten-1-one, 3-methyl-2-(2-pentenyl)-, (Z)
23.686	1.05	1H-cycloprop[e]azulene, 1a,2,3,4,4a,5,6,7b-octahydro-1,1,4,7-tetramethyl-, [1aR-(1a.alpha.,4.alpha.,4a.beta.,7b.alpha.)]
24.138	1.82	caryophyllene
24.384	0.07	1H-cyclopropa[a]naphthalene, decah
24.550	0.38	1H-cyclopropa[a]naphthalene, 1a,2,3,5,6,7,7a,7b-octahydro-1,1,7,7a-tetramethyl-, [1aR-(1a.alpha.,7.alpha.,7a.alpha.,7b.alpha.)]

24.985	2.80	1H-cycloprop[e]azulene, decahydro-1,1,7-trimethyl-4-methylene-, [1aR-(1a.alpha.,4a.alpha.,7.alpha.,7a.beta.,7b.alpha.)]
25.053	0.15	naphthalene, 1,2,3,4,4a,5,6,8a-octahydro-4a,8-dimethyl-2-(1-methylethenyl)-, [2R-(2.alpha.,4a.alpha.,8a.beta.)]
25.443	0.39	alpha.-Caryophyllene
25.763	2.27	1H-cycloprop[e]azulene, decahydro-1,1,7-trimethyl-4-methylene-, [1aR-(1a.alpha.,4a.alpha.,7.alpha.,7a.beta.,7b.alpha.)]
26.049	0.09	2-methyl-4-(1-methylethyl)-2-cyclohexenone
26.169	0.09	azulene, 1,2,3,3a,4,5,6,7-octahydro-1,4-dimethyl-7-(1-methylethenyl)-, [1R-(1.alpha.,3a.beta.,4.alpha.,7.beta.)]
26.358	0.10	naphthalene, 1,2,3,4,4a,5,6,8a-octahydro-7-methyl-4-methylene-1-(1-methylethyl)-, (1.alpha.,4a.alpha.,8a.alpha.)
26.73	0.17	naphthalene, decahydro-4a-methyl-1-methylene-7-(1-methylethenyl)-, [4aR-(4a.alpha.,7.alpha.,8a.beta.)]
27.325	0.05	Nnphthalene, 1,2,4a,5,6,8a-hexahydro-4,7-dimethyl-1-(1-methylethyl)-, (1.alpha.,4a.alpha.,8a.alpha.)
27.583	0.03	1,2,4-metheno-1H-indene, octahydro-1,7a-dimethyl-5-(1-methylethyl)-, [1S-(1.alpha.,2.alpha.,3a.beta.,4.alpha.,5.alpha.,7a.beta.,8S*)]
27.857	0.13	naphthalene, 1,2,4a,5,6,8a-hexahydro-4,7-dimethyl-1-(1-methylethyl)-, (1.alpha.,4a.alpha.,8a.alpha.)
28.040	0.13	aromadendrene, dehydro
28.235	0.21	naphthalene, 1,2,3,5,6,8a-hexahydro-4,7-dimethyl-1-(1-methylethyl)-, (1S-cis)
28.761	0.02	bicyclo[4.4.0]dec-1-ene, 2-isopropyl-5-methyl-9-methylene
28.973	0.02	alpha.-Calacorene
29.316	0.06	naphthalene, decahydro-4a-methyl-1-methylene-7-(1-methylethenyl)-, [4aR-(4a.alpha.,7.alpha.,8a.beta.)]
29.700	0.91	epiglobulol
29.929	0.46	naphthalene, 1,2,3,4,4a,5,6,8a-octahydro-4a,8-dimethyl-2-(1-methylethenyl)-, [2R-(2.alpha.,4a.alpha.,8a.beta.)]
30.163	0.08	1H-pyrrole, 2,3,5-trimethyl
30.867	5.16	globulol
31.067	1.36	naphthalene, decahydro-4a-methyl-1-methylene-7-(1-methylethylidene)-, (4aR-trans)
31.376	0.66	2-naphthalenemethanol, decahydro-.alpha.,.alpha.,4a-trimethyl-8-methylene-, [2R-(2.alpha.,4a.alpha.,8a.beta.)]
31.491	0.02	4aH-cycloprop[e]azulen-4a-ol, decahydro-1,1,4,7-tetramethyl
31.565	0.09	cis-Z-.alpha.-Bisabolene epoxide
31.840	0.21	naphthalene, 1,2,3,5,6,7,8,8a-octahydro-1,8a-dimethyl-7-(1-methylethenyl)-, [1S-(1.alpha.,7.alpha.,8a.alpha.)]
32.143	0.83	2-naphthalenemethanol, 2,3,4,4a,5,6,7,8-octahydro-.alpha.,.alpha.,4,8-tetramethyl-, [2R-(2.alpha.,4a.alpha.,8a.beta.)]
32.286	0.11	naphthalene, 1,2,3,4,4a,7-hexahydro-1,6-dimethyl-4-(1-methylethyl)-
32.458	0.07	naphthalene, decahydro-4a-methyl-1-methylene-7-(1-methylethenyl)-, [4aR-(4a.alpha.,7.alpha.,8a.beta.)]
32.606	0.16	10,10-Dimethyl-2,6-dimethylenebicyclo[7.2.0]undecan-5.beta.-ol
32.778	0.29	bicyclo[4.4.0]dec-1-ene, 2-isopropyl-5-methyl-9-methylene
33.121	0.06	benzaldehyde, 2,3,4,5-tetramethyl
33.282	0.33	alpha-cadinol
33.888	0.05	cis-Z-alpha-bisabolene epoxide
35.713	0.06	1,6,10-dodecatrien-3-ol, 3,7,11-trimethyl-, [S-(Z)]
36.183	0.04	bicyclo[3.1.1]heptane, 2,6,6-trimethyl-, [1R-(1.alpha.,2.beta.,5.alpha.)]
36.492	0.03	3,9-epoxytricyclo[4.2.1.1(2,4)]decan-10-one, 9-methyl
38.094	0.39	alpha-phellandrene
38.672	0.07	2-pyridylacetamide
42.294	0.02	3,5-di-tert-butyl-4-hydroxyacetophenone
43.490	0.01	3-carene
46.133	0.11	phytol

Table 3 Suppl. Volatile content in mature leaves of *Eucalyptus camaldulensis* (R.T. - Retention time).

R.T.	Relative content [%]	Chemical name
3.682	0.04	2-hexenal
3.733	0.09	3-hexen-1-ol
3.945	0.12	hexanal
5.044	0.03	cyclopentene, 3-ethylidene-1-methyl
5.238	1.02	bicyclo[3.1.0]hex-2-ene, 2-methyl-5-(1-methylethyl)
5.456	3.17	alpha-pinene
5.793	0.06	camphene
6.589	0.71	beta-pinene
7.035	0.61	myrcene
7.687	19.95	alpha-phellandrene
8.031	0.31	bicyclo[4.1.0]hept-2-ene, 3,7,7-trimethyl
8.059	0.07	1,3-cyclohexadiene, 1-methyl-4-(1-methylethyl)
8.803	42.72	1,8-cineole
9.123	0.04	1,3,6-octatriene, 3,7-dimethyl-, (Z)
9.524	2.41	1,4-cyclohexadiene, 1-methyl-4-(1-methylethyl)
9.936	0.02	2-furanmethanol, 5-ethenyltetrahydro-.alpha.,.alpha.,5-trimethyl
10.949	1.86	cyclohexene, 1-methyl-4-(1-methylethylidene)
11.138	0.05	1,6-octadien-3-ol, 3,7-dimethyl
11.241	0.17	butanoic acid, 3-methyl-, 3-methylbutyl ester
11.452	0.03	n-amyl isovalerate
11.784	0.03	bicyclo[2.2.1]heptan-2-ol, 1,3,3-trimethyl-, (1R-endo)
12.311	0.02	1,3,8-p-menthatriene
12.499	0.04	cyclopentane, 2-propenyl
12.860	0.05	2(10)-pinen-3-one, (./+/-.)
13.358	0.34	5,5-dimethyl-1,3-hexadiene
13.638	0.32	cyclohexene, 1,2-dimethyl
13.793	2.08	3-cyclohexen-1-ol, 4-methyl-1-(1-methylethyl)
14.182	0.07	endo-tricyclo[5.2.1.0(2.6)]decane
14.748	1.28	3-cyclohexene-1-methanol, .alpha.,.alpha.4-trimethyl
14.851	0.38	2-cyclohexen-1-ol, 3-methyl-6-(1-methylethyl)
15.206	0.92	bicyclo[3.1.0]hexan-3-ol, 4-methylene-1-(1-methylethyl)-, (1.alpha.,3.alpha.,5.alpha.)
15.389	0.05	3-methylenecyclohexene
15.498	0.03	bicyclo[5.1.0]octane, 8-(1-methylethylidene)
15.778	0.06	2-cyclohexen-1-ol, 2-methyl-5-(1-methylethenyl)
16.259	0.16	pyridine, 4-methyl-, 1-oxide
16.654	0.46	bicyclo[3.1.0]hexan-3-ol, 4-methylene-1-(1-methylethyl)-, (1.alpha.,3.alpha.,5.alpha.)
16.991	0.20	2-cyclohexen-1-one, 2-methyl-5-(1-methylethyl)-, (S)
17.254	0.08	2-cyclohexen-1-one, 3-methyl-6-(1-methylethyl)
18.078	0.03	1-cyclohexene-1-carboxaldehyde, 4-(1-methylethyl)
18.954	0.02	benzenemethanol, 4-(1-methylethyl)
19.223	0.01	phenol, 2-ethyl-4,5-dimethyl
19.652	0.44	3-methyl-4-isopropylphenol
20.293	0.06	benzene, 1-(1,1-dimethylethyl)-4-ethyl
20.928	0.07	2-oxabicyclo[2.2.2]octan-6-ol, 1,3,3-trimethyl-, acetate
21.569	0.02	3-carene
21.712	0.20	eugenol
21.872	0.02	fumaric acid, cyclohex-3-enylmethyl isohexyl ester
22.112	0.06	isolekene
22.238	0.03	copaene
22.347	0.03	phenylguanidine mononitrate
23.079	0.01	tricyclo[6.3.0.0(2,4)]undec-8-ene,3,3,7,11-tetramethyl
23.182	0.01	butanoic acid, 3-methyl-, phenylmethyl ester
23.383	0.02	2-cyclopenten-1-one, 3-methyl-2-(2-pentenyl)-, (Z)

23.646	0.39	1H-cycloprop[e]azulene, 1a,2,3,4,4a,5,6,7b-octahydro-1,1,4,7-tetramethyl-, [1aR-(1a.alpha.,4.alpha.,4a.beta.,7b.alpha.)]
24.189	3.20	caryophyllene
24.390	0.05	1H-cyclopropa[a]naphthalene, decahydro-1,1,3a-trimethyl-7-methylene-, [1aS-(1a.alpha.,3a.alpha.,7a.beta.,7b.alpha.)]
24.544	0.25	1H-cyclopropa[a]naphthalene, 1a,2,3,5,6,7,7a,7b-octahydro-1,1,7,7a-tetramethyl-, [1aR-(1a.alpha.,7.alpha.,7a.alpha.,7b.alpha.)]
24.950	2.10	1H-cycloprop[e]azulene, decahydro-1,1,7-trimethyl-4-methylene-, [1aR-(1a.alpha.,4a.alpha.,7.alpha.,7a.beta.,7b.alpha.)]
25.219	0.63	1-(3-methylbutyl)-2,3,5,6-tetramethylbenzene
25.460	0.59	alpha-caryophyllene
26.055	0.15	2-methyl-4-(1-methylethyl)-2-cyclohexenone
26.158	0.47	azulene, 1,2,3,3a,4,5,6,7-octahydro-1,4-dimethyl-7-(1-methylethenyl)-, [1R-(1.alpha.,3a.beta.,4.alpha.,7.beta.)]
26.347	0.06	naphthalene, 1,2,3,4,4a,5,6,8a-octahydro-7-methyl-4-methylene-1-(1-methylethyl)-, (1.alpha.,4a.alpha.,8a.alpha.)
26.718	0.15	naphthalene, decahydro-4a-methyl-1-methylene-7-(1-methylethenyl)-, [4aR-(4a.alpha.,7.alpha.,8a.beta.)]
26.804	0.12	aromadendrene
27.314	0.02	naphthalene, 1,2,4a,5,6,8a-hexahydro-4,7-dimethyl-1-(1-methylethyl)-, (1.alpha.,4a.alpha.,8a.alpha.)
27.846	0.07	naphthalene, 1,2,4a,5,6,8a-hexahydro-4,7-dimethyl-1-(1-methylethyl)
28.029	0.08	aromadendrene, dehydro
28.223	0.13	aaphthalene, 1,2,3,5,6,8a-hexahydro-4,7-dimethyl-1-(1-methylethyl)-, (1S-cis)
28.412	0.02	cyclohexane, 1-ethenyl-1-methyl-2,4-bis(1-methylethenyl)-, [1S-(1.alpha.,2.beta.,4.beta.)]
28.967	0.02	alpha-calacorene
29.299	0.87	caryophyllene oxide
29.671	0.55	epiglobulol
30.157	0.35	naphthalene, 1,2,3,4,4a,5,6,8a-octahydro-4a,8-dimethyl-2-(1-methylethenyl)-, [2R-(2.alpha.,4a.alpha.,8a.beta.)]
30.804	0.07	3,5-dimethylcyclohex-1-ene-4-carboxaldehyde
31.016	3.61	(-)-globulol
31.342	0.99	1H-cycloprop[e]azulen-4-ol, decahydro-1,1,4,7-tetramethyl-, [1aR-(1a.alpha.,4.beta.,4a.beta.,7.alpha.,7a.beta.,7b.alpha.)]
31.548	0.98	1H-indene, 1-ethylideneoctahydro-7a-methyl-, (1E,3a.alpha.,7a.beta.)
31.822	0.12	2H-inden-2-one, octahydro
32.103	0.19	naphthalene, 1,2,3,5,6,7,8,8a-octahydro-1,8a-dimethyl-7-(1-methylethenyl)-, [1S-(1.alpha.,7.alpha.,8a.alpha.)]
32.269	0.12	naphthalene, 1,2,3,4,4a,7-hexahydro-1,6-dimethyl-4-(1-methylethyl)
32.606	0.27	10,10-Dimethyl-2,6-dimethylenebicyclo[7.2.0]undecan-5.beta.-o
32.772	0.22	tau-cadinol
33.116	0.08	2-cyclopenten-1-one, 3-methyl-2-(2,4-pentadienyl)-, (Z)
33.270	0.23	1H-cyclopropa[a]naphthalene, 1a,2,3,5,6,7,7a,7b-octahydro-1,1,7,7a-tetramethyl-, [1aR-(1a.alpha.,7.alpha.,7a.alpha.,7b.alpha.)]
33.390	0.16	naphthalene, decahydro-4a-methyl-1-methylene-7-(1-methylethenyl)-, [4aR-(4a.alpha.,7.alpha.,8a.beta.)]
36.160	1.49	alpha-phellandrene
36.492	0.03	terrein
46.127	0.12	phytol

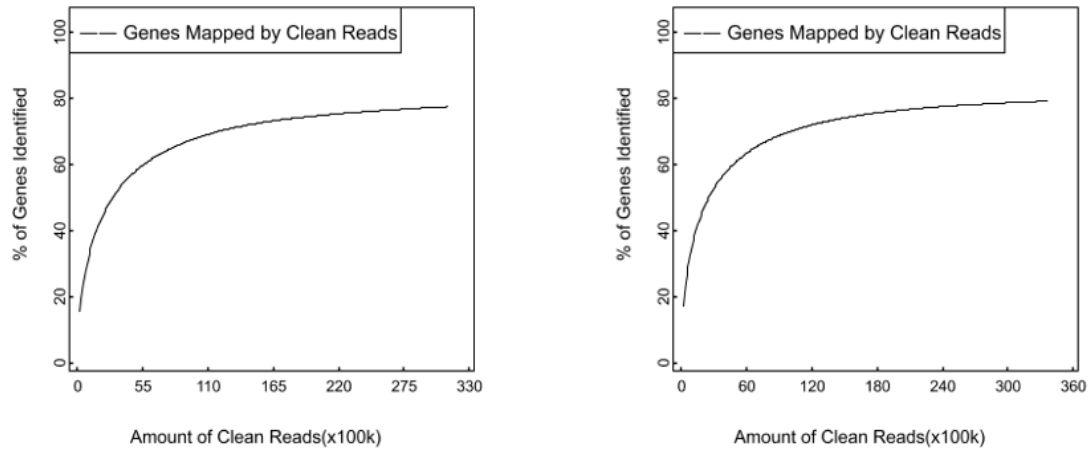


Fig. 1 Suppl. RNA-Seq read coverage saturability simulated diagram of transcriptome. It represents the corresponding reads number of unigenes and the ordinate is the total number of obtained unigenes. The *left* and *right* figures show young and mature leaves, respectively. Both figures indicate that increased sequencing led to saturation and therefore there were fewer novel genes detected. x100k is defined as 100*1000, amount of clean reads.