

Journal of Applied Pharmaceutical Science

Available online at: <https://japsonline.com>

Differentially gene expression profiling reveals effect similarities of everolimus, asiaticoside, and asiatic acid on TSC-derived renal angiomyolipoma

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Doi: <https://doi.org/10.7324/JAPS.2024.169852>

Supplementary Material

Supplementary Table S1. The Ct values resulted from mTOR profiling of each proposed RGs for specific groups.

Group	<i>ACTB</i>	<i>B2M</i>	<i>RPLP0</i>	<i>GAPDH</i>	<i>HPRT1</i>
Control	15.16	18.8	16.21	18.07	22.87
	15.33	19.22	17.1	17.49	23.91
	14.54	18.23	16.38	16.26	22.77
Mean ± SD	15.01 ±	18.75 ±	16.56 ±	17.27 ±	23.18 ± 0.6313
	0.4158	0.4969	0.4725	0.9242	
CV	2.7702	2.6501	2.8532	5.3515	2.7235
Everolimus	17.67	19.75	16.79	17.88	25.29
	16.76	19.45	16.57	17.62	24.38
	17.84	20.16	17.01	18.84	25.15
Mean ± SD	17.42 ±	19.79 ±	16.79 ±	18.11 ±	24.94 ± 0.4900
	0.5807	0.3564	0.2200	0.6426	
CV	3.3335	1.8009	1.3103	3.5483	1.9647
Asiaticoside	15.62	18.18	17.31	16.23	23.2
	16.55	18.76	17.7	18.09	23.21

	16.78	18.96	17.55	16.25	23.21
Mean ± SD	16.32 ±	18.63 ±	17.52 ±	16.86 ±	23.21 ±
	0.6142	0.4051	0.1967	1.0681	0.005774
CV	3.7635	2.1744	1.1227	6.3351	0.02488
	16.3	18.83	17.12	17.53	22.12
Asiatic acid	15.86	18.79	17.16	17.27	22.64
	15.71	18.38	16.91	17.21	24.39
Mean ± SD	15.96 ±	18.67 ±	17.06 ±	19.20 ±	25.05 ± 0.9350
	0.3066	0.2491	0.1343	1.2037	
CV	1.9211	1.3342	0.7872	6.2693	3.7325
Range of CV	1.8424	1.3159	2.066	2.721	3.7076

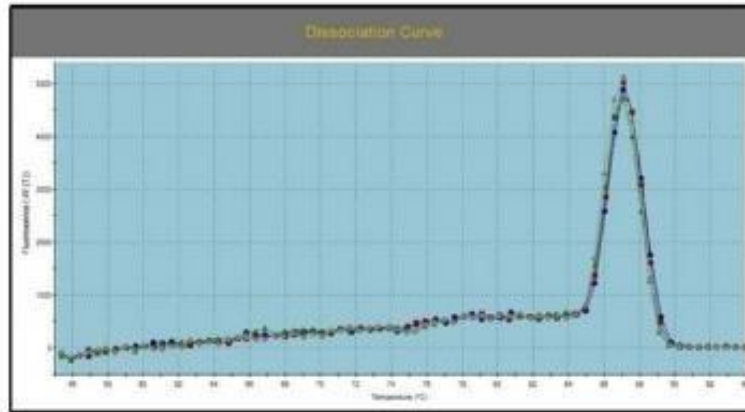
*CV stands for coefficient of variation

Supplementary Table S2. The average value of geometric mean for each group based on Ct values of three RGs.

Group	<i>ACTB</i>	<i>B2M</i>	<i>RPLP0</i>	Geometric mean	Average geometric mean
Control	15.16	18.8	16.21	16.66	16.70
	15.33	19.22	17.1	17.14	
	14.54	18.23	16.38	16.31	
Everolimus	17.67	19.75	16.79	18.03	17.95
	16.76	19.45	16.57	17.55	
	17.84	20.16	17.01	18.29	
Asiaticoside	15.62	18.18	17.31	17.00	17.46
	16.55	18.76	17.7	17.65	
	16.78	18.96	17.55	17.74	
Asiatic acid	16.3	18.83	17.12	17.39	17.19
	15.86	18.79	17.16	17.23	
	15.71	18.38	16.91	16.97	

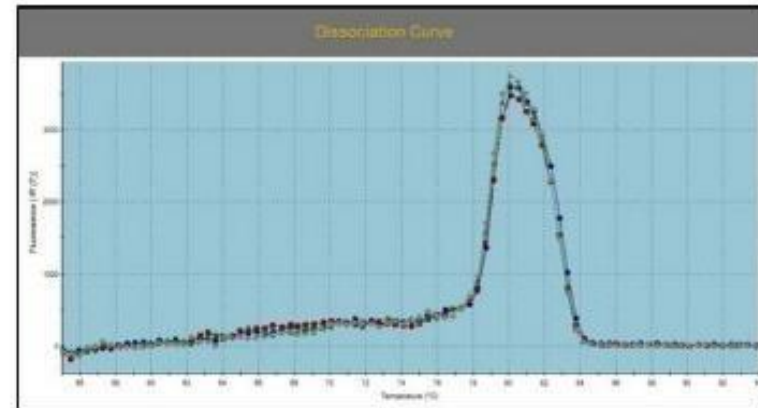
a)

The melting curve of *ACTB*: 87°C



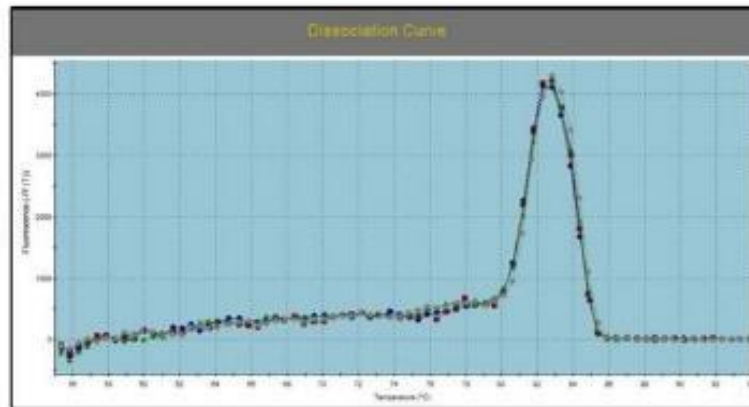
b)

The melting curve of *B2M*: 83 °C



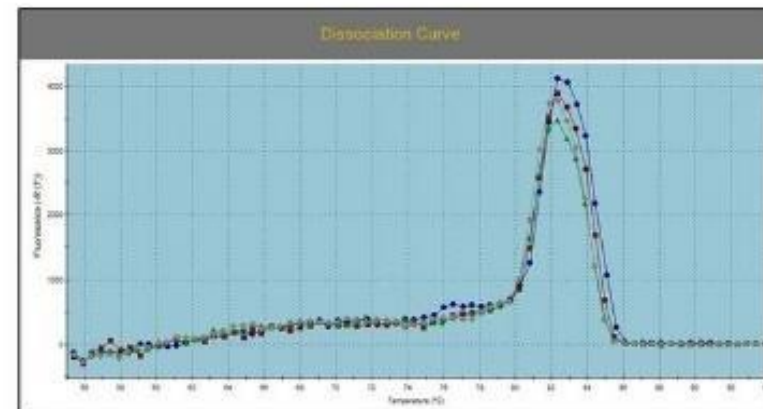
c)

The melting curve of *RPLP0*: 83°C



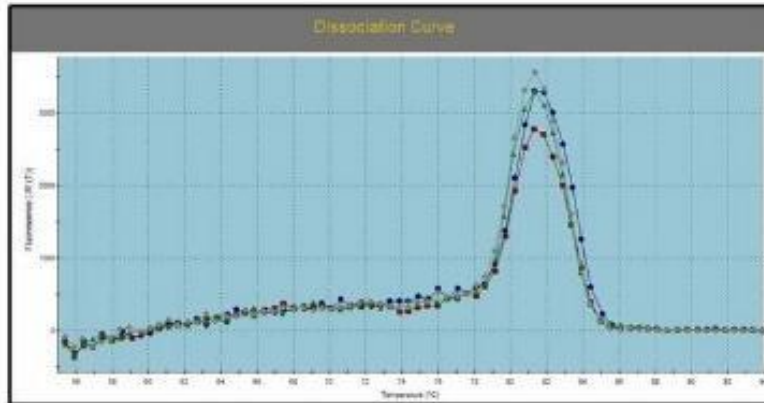
d)

The melting curve of *CAB39*: 82.4°C

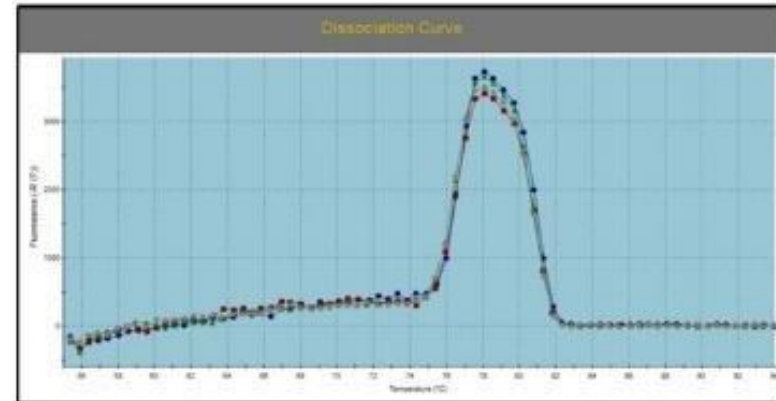


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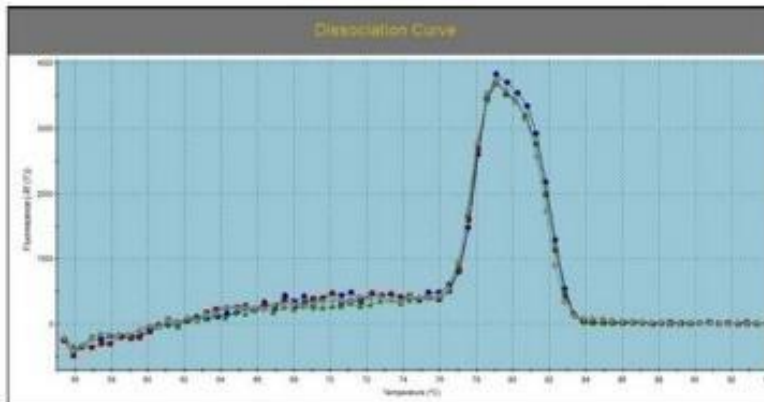
e) The melting curve of *PRKCE*: 81.5°C



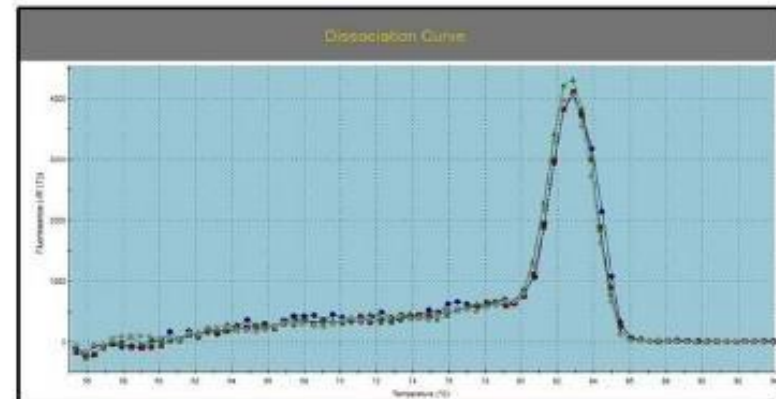
f) The melting curve of *RRAGC*: 78°C



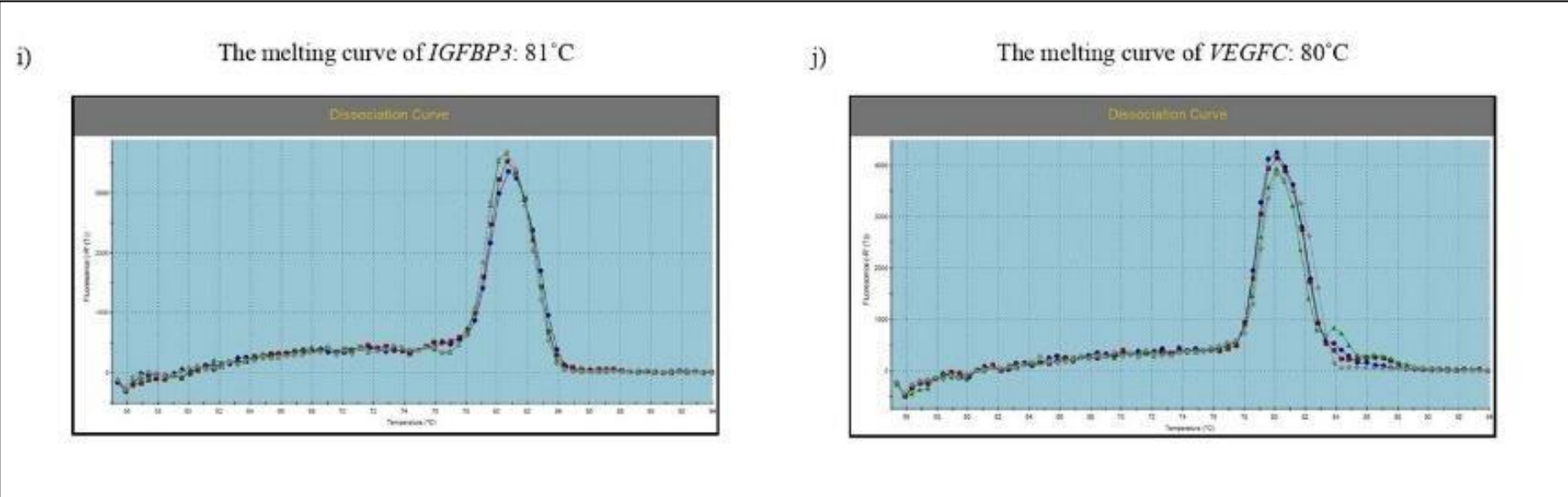
g) The melting curve of *RPS6KA5*: 79°C



h) The melting curve of *DEPTOR*: 82°C



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Supplementary Figure S1. The melting curves of RGs and DEGs, respectively and their specific melting temperatures.