

**Supplementary Table II.** Mean fold change values for transcripts encoding C<sub>4</sub> proteins in *Setaria viridis* and maize. Genes are grouped according to cell type and ranked by mean fold change (high to low).

Gene	Cell Type	Setaria $\frac{BS}{M}$	Maize $\frac{BS}{M}$	Mean $\frac{BS}{M}$	Mean Log <sub>2</sub> $\frac{BS}{M}$
<i>GDC</i>	BS	191.847	233.584	212.716	7.733
<i>FBA</i>	BS	133.745	197.935	165.840	7.374
<i>PCK</i>	BS	13.204	258.371	135.787	7.085
<i>DCT2</i>	BS	211.256	57.159	134.207	7.068
<i>NADP-ME</i>	BS	147.536	101.237	124.386	6.959
<i>PRK</i>	BS	156.169	82.365	119.267	6.898
<i>GCH</i>	BS	152.067	58.310	105.189	6.717
<i>RBCS</i>	BS	106.803	35.364	71.084	6.151
<i>SBP</i>	BS	114.879	20.647	67.763	6.082
<i>RBCACT</i>	BS	12.392	118.028	65.210	6.027
<i>MEP3a</i>	BS	16.707	97.732	57.220	5.838
<i>SHMT</i>	BS	19.306	41.094	30.200	4.916
<i>RPE</i>	BS	46.152	7.112	26.632	4.735
<i>FBP</i>	BS	18.565	9.316	13.940	3.801
<i>GOX</i>	BS	2.263	12.887	7.575	2.921
<i>TKL</i>	BS	5.378	7.511	6.445	2.688
<i>CA</i>	M	0.027	0.034	0.031	-5.033
<i>NADP-MDH</i>	M	0.042	0.027	0.035	-4.855
<i>OMT1</i>	M	0.040	0.032	0.036	-4.806
<i>TPI</i>	M	0.059	0.019	0.039	-4.671
<i>PEPC</i>	M	0.033	0.051	0.042	-4.567
<i>ASP-AT</i>	M	0.135	0.020	0.078	-3.683
<i>MEP3b</i>	M	0.158	0.056	0.107	-3.224
<i>PPDK</i>	M	0.049	0.201	0.125	-3.003
<i>AK</i>	M	0.122	0.153	0.138	-2.861
<i>PPT</i>	M	0.277	0.115	0.196	-2.350
<i>PPDK-RP</i>	M	0.450	0.053	0.251	-1.993
<i>GAP-DH</i>	M	0.541	0.123	0.332	-1.589
<i>DIT1</i>	M	0.634	0.074	0.354	-1.498
<i>RPI</i>	M/BS	57.048	0.640	28.844	4.850
<i>PGK</i>	M/BS	1.485	0.298	0.891	-0.166