

Tissue	Gene	Site	June			September			December		
			Mesor	Amplitude	Acrophase	Mesor	Amplitude	Acrophase	Mesor	Amplitude	Acrophase
Hypothalamus	<i>Bmal1</i>	Rural	1.7	2.4	6.8	0.4	0.6	10.4	1.3	2.1	8.1
		Urban	0.4	0.7	6.8	0.4	0.6	7.3	2.3	3.9	5.9
	<i>Clock</i>	Rural	0.6	1.1	12.8	2.4	1.7	5.4	0.2	0.4	8.3
		Urban	0.6	1.0	5.2	0.4	0.4	8.7	1.0	1.6	9.0
	<i>Npas2</i>	Rural	0.5	0.6	14.4	2.8	3.1	5.0	0.7	1.3	12.5
		Urban	0.2	0.3	9.2	0.3	0.2	5.7	1.4	2.1	10.0
	<i>Per2</i>	Rural	1.4	1.6	23.1	2.6	2.5	0.5	0.8	0.5	0.1
		Urban	0.9	1.3	22.0	0.9	0.4	23.5	0.6	1.0	20.6
	<i>Cry1</i>	Rural	0.3	0.4	13.6	0.7	0.9	10.7	0.1	0.2	10.2
		Urban	0.8	1.0	12.4	0.2	0.1	10.0	0.2	0.4	9.5
Pineal	<i>Bmal1</i>	Rural	1.1	1.6	15.8	1.1	1.1	12.6	1.4	2.2	12.7
		Urban	0.8	1.4	13.2	0.9	0.8	5.7	0.9	1.6	5.1
	<i>Clock</i>	Rural	1.1	0.9	11.3	1.7	1.7	7.5	0.4	0.2	10.7
		Urban	2.2	4.0	12.9	0.6	0.7	9.2	3.0	4.1	14.5
	<i>Npas2</i>	Rural	0.7	1.2	17.4	0.8	0.7	12.7	0.6	0.7	10.5

		Urban	1.9	2.5	17	0.7	0.7	8.1	0.7	1.0	10.2
	<i>Per2</i>	Rural	2.2	3.0	0.2	1.7	1.3	3.2	0.6	0.5	0.2
		Urban	0.6	0.4	23.9	1.5	1.7	22.9	0.5	0.6	22.6
	<i>Cry1</i>	Rural	0.4	0.5	12.8	0.6	0.8	13.9	0.7	1.1	7.6
		Urban	0.3	0.5	8.4	1.4	1.5	9.7	1.7	2.8	8.0
Retina	<i>Bmal1</i>	Rural	4.5	6.3	9.0	1.6	1.2	14.1	1.0	1.3	11.2
		Urban	0.4	0.7	6.8	0.8	0.8	12.1	0.4	.05	9.6
	<i>Clock</i>	Rural	1.0	1.0	10.6	1.8	1.3	7.0	2.4	1.7	9.8
		Urban	0.4	0.3	15.1	2.1	3.3	8.7	1.8	1.8	10.2
	<i>Npas2</i>	Rural	2.0	2.1	10.1	1.9	1.7	14.6	1.8	1.9	11.5
		Urban	0.3	0.3	6.6	0.9	1.1	7.6	1.4	1.4	11.4
	<i>Per2</i>	Rural	2.6	2.6	4.1	2.4	1.5	23.8	1.1	1.0	22.7
		Urban	0.7	0.9	1.3	1.1	0.9	22.4	2.2	1.2	20.3
	<i>Cry1</i>	Rural	2.6	4.0	8.5	2.2	1.8	10.3	4.8	5.4	9.8
		Urban	1.0	0.7	8.9	1.0	.97	7.8	1.3	1.7	10.4

Supplementary Table 3: Rhythm parameters of all nine genes in different tissues under different habitat of tree sparrow, as determined by cosinor analyses.