

Weaver et al., Table S1										Final Classification		segment 1 calls		segment 2 calls		Segment 3		Final Classification	
Expt/ch	DOB	DD start	Ear#	sex	GT (Vgat)	GT(Clock)	GT(Npas2)	GT unique	Observer 1 / Observer 2 (if different)	#1 / #2 if different	tau (days 23-43)	#1 / #2 if different	tau (days 43-63)	#1 / #2 if different	tau (days 63-83)	Observer 1 / Observer 2 (if different)			
V1-86	9/15/2010	12/6/2010	5651	m	NoCre	Clock(f/+)	Npas2(m/m)	control for CN-3opposite	Rhythmic	Rhythmic	22.77	Rhythmic	23.27	Rhythmic	23.13	Rhythmic			
V1-87	9/15/2010	12/6/2010	5652	m	NoCre	Clock(f/f)	Npas2(m/m)		Rhythmic	Rhythmic	24.02	Rhythmic	23.98	Rhythmic	24.03	Rhythmic			
V1-88	9/15/2010	12/6/2010	5655	m	Vgat-Cre +	Clock(f/+)	Npas2(m/m)	CN-3opposite	Rhythmic	Rhythmic	23.93	Rhythmic	24.08	Rhythmic	24.07	Rhythmic			
V1-89	9/15/2010	12/6/2010	5699	m	Vgat-Cre +	Clock(f/+)	Npas2(m/m)	CN-3opposite	Rhythmic	Rhythmic	23.37	Rhythmic	23.58	Rhythmic	23.63	Rhythmic			
V1-90	9/18/2010	12/6/2010	5671	m	NoCre	Clock(f/f)	Npas2(m/m)	CN4	Rhythmic	Rhythmic	23.53	Rhythmic	23.6	Rhythmic	23.57	Rhythmic			
V1-91	9/18/2010	12/6/2010	5672	m	NoCre	Clock(f/f)	Npas2(m/m)	CN4	Rhythmic	Rhythmic	22.98	Rhythmic	23.35	Rhythmic	23.28	Rhythmic			
V1-92	9/19/2010	12/6/2010	5679	m	NoCre	Clock(f/f)	Npas2(m/m)	CN4	Rhythmic	Rhythmic	24.18	Rhythmic	24.27	Rhythmic	24.25	Rhythmic			
V1-94	9/19/2010	12/6/2010	5682	m	Vgat-Cre +	Clock(f/+)	Npas2(m/m)	VCRE+; CN4	Arrhythmic	arrhythmic	N.A.	Arrhythmic	N.A.	Arrhythmic	N.A.	Arrhythmic			
V1-95	9/19/2010	12/6/2010	5683	m	Vgat-Cre +	Clock(f/+)	Npas2(m/m)	CN-3opposite	Rhythmic	Rhythmic	23.67	Rhythmic	23.6	Rhythmic	23.63	Rhythmic			
V1-96	9/21/2010	12/6/2010	5684	m	NoCre	Clock(f/f)	Npas2(m/m)	CN4	Rhythmic	Rhythmic	23.68	Rhythmic	23.65	Rhythmic	23.68	Rhythmic			
V1-97	9/21/2010	12/6/2010	5685	m	Vgat-Cre +	Clock(f/+)	Npas2(m/+)	CN-double-het	Rhythmic	Rhythmic	23.95	Rhythmic	23.98	Rhythmic	24.07	Rhythmic			
V1-98	9/21/2010	12/6/2010	5686	m	Vgat-Cre +	Clock(f/f)	Npas2(m/+)	CN3-allele	Delayed arrhythmicity	Rhythmic / delayed AR	23.92	Arrhythmic	24.23	Arrhythmic	N.A.	Delayed arrhythmicity			
V1-99	9/21/2010	12/6/2010	5687	m	Vgat-Cre +	Clock(f/f)	Npas2(m/+)	CN3-allele	Delayed arrhythmicity	Rhythmic	24.2	Arrhythmic	N.A.	Arrhythmic	N.A.	Delayed arrhythmicity			
V1-100	9/21/2010	12/6/2010	5688	m	Vgat-Cre +	Clock(f/+)	Npas2(m/m)	CN-3opposite	Rhythmic	Rhythmic	23.93	Rhythmic	23.97	Rhythmic	23.98	Rhythmic			
V1-101	9/21/2010	12/6/2010	5689	m	Vgat-Cre +	Clock(f/+)	Npas2(m/+)	CN-double-het	Rhythmic	Rhythmic	23.88	Rhythmic	23.88	Rhythmic	23.88	Rhythmic			
V1-102	9/15/2010	12/6/2010	5702	f	Vgat-Cre +	Clock(f/+)	Npas2(m/m)	CN-3opposite	Rhythmic	Rhythmic	23.45	Rhythmic	23.02	Rhythmic	22.9	Rhythmic			
V1-103	9/15/2010	12/6/2010	5703	f	Vgat-Cre +	Clock(f/f)	Npas2(m/m)	VCRE+; CN4	Arrhythmic	arrhythmic	N.A.	Arrhythmic	N.A.	Arrhythmic	N.A.	Arrhythmic			
V2-64	10/30/2010	1/25/2011	5929	f	Vgat-Cre +	Clock(f/+)	Npas2(m/+)	CN-double-het	Rhythmic	Rhythmic	23.98	Rhythmic	24.03	Rhythmic	23.98	Rhythmic			
V2-66	10/18/2010	1/25/2011	5862	f	Vgat-Cre +	Clock(f/+)	Npas2(m/m)	CN-3opposite	Rhythmic	Rhythmic	23.7	Rhythmic	23.6	Rhythmic	23.82	Rhythmic			
V2-67	10/18/2010	1/25/2011	5859	f	NoCre	Clock(f/f)	Npas2(m/m)	CN4	Rhythmic	Rhythmic	23.93	Rhythmic	24.02	Rhythmic	23.85	Rhythmic			
V2-69	10/30/2010	1/25/2011	5919	f	Vgat-Cre +	Clock(f/f)	Npas2(m/m)	VCRE+; CN4	Arrhythmic	arrhythmic	N.A.	Arrhythmic	N.A.	Arrhythmic	N.A.	Arrhythmic			
V2-72	10/30/2010	1/25/2011	5928	f	Vgat-Cre +	Clock(f/f)	Npas2(m/m)	VCRE+; CN4	Arrhythmic	arrhythmic	N.A.	Arrhythmic	N.A.	Arrhythmic	N.A.	Arrhythmic			
V2-73	10/30/2010	1/25/2011	5930	f	Vgat-Cre +	Clock(f/f)	Npas2(m/m)	VCRE+; CN4	Arrhythmic	arrhythmic	N.A.	Arrhythmic	N.A.	Arrhythmic	N.A.	Arrhythmic			
V2-75	10/9/2010	1/25/2011	5822	f	Vgat-Cre +	Clock(f/f)	Npas2(m/+)	CN3-allele	Rhythmic	Rhythmic	23.22	Rhythmic	22.35	Rhythmic	21.92	Rhythmic			
V2-76	10/9/2010	1/25/2011	5820	f	NoCre	Clock(f/f)	Npas2(m/m)	CN4	Rhythmic	Rhythmic	23.85	Rhythmic	23.85	Rhythmic	23.92	Rhythmic			
V2-77	10/24/2010	1/25/2011	5895	f	NoCre	Clock(f/f)	Npas2(m/m)	CN4	Rhythmic	Rhythmic	23.42	Rhythmic	23.28	Rhythmic	23.15	Rhythmic			
V2-78	10/9/2010	1/25/2011	5821	f	NoCre	Clock(f/f)	Npas2(m/m)	control for CN3-allele	Rhythmic	Rhythmic	24.03	Rhythmic	24.12	Rhythmic	24.22	Rhythmic			
V2-79	11/5/2010	1/25/2011	5934	f	NoCre	Clock(f/f)	Npas2(m/m)	CN4	Rhythmic	Rhythmic	23.6	Rhythmic	23.5	Rhythmic	23.58	Rhythmic			
V2-80	10/30/2010	1/25/2011	5922	m	Vgat-Cre +	Clock(f/f)	Npas2(m/m)	VCRE+; CN4	Arrhythmic	arrhythmic	N.A.	Arrhythmic	N.A.	No segment 3	Arrhythmic				
V2-82	10/30/2010	1/25/2011	5924	m	Vgat-Cre +	Clock(f/+)	Npas2(m/+)	CN-double-het	Rhythmic	Rhythmic	23.77	Rhythmic	23.75	Rhythmic	23.92	Rhythmic			
V2-109	10/30/2010	1/25/2011	5933	m	NoCre	Clock(f/f)	Npas2(m/m)	CN4	Rhythmic	Rhythmic	23.9	Rhythmic	23.87	Rhythmic	23.77	Rhythmic			
V2-110	10/24/2010	1/25/2011	5893	m	Vgat-Cre +	Clock(f/+)	Npas2(m/+)	CN-double-het	Rhythmic	Rhythmic	23.77	Rhythmic	23.97	Rhythmic	24.18	Rhythmic			
V2-111	10/24/2010	1/25/2011	5891	m	NoCre	Clock(f/+)	Npas2(m/m)	control for CN3-opposite	Rhythmic	Rhythmic	23.3	Rhythmic	23.18	No segment 3	Rhythmic				
V2-112	10/24/2010	1/25/2011	5894	m	Vgat-Cre +	Clock(f/+)	Npas2(m/m)	CN-3opposite	Rhythmic	Rhythmic	23.55	Rhythmic	23.53	Rhythmic	23.55	Rhythmic			
V3-86	11/26/2010	4/5/2011	5999	m	NoCre	Clock(f/f)	Npas2(m/m)	CN4	Rhythmic	Rhythmic	24.03	Rhythmic	23.98	No segment 3	Rhythmic				
V3-87	11/26/2010	4/5/2011	7026	m	NoCre	Clock(f/f)	Npas2(m/m)	CN4	Rhythmic	Rhythmic	24.25	Rhythmic	24.3	No segment 3	Rhythmic				
V3-88	11/26/2010	4/5/2011	7027	m	Vgat-Cre +	Clock(f/f)	Npas2(m/m)	VCRE+; CN4	Arrhythmic	arrhythmic	N.A.	arrhythmic	N.A.	No segment 3	Arrhythmic				
V3-89	11/26/2010	4/5/2011	7028	m	Vgat-Cre +	Clock(f/f)	Npas2(m/m)	VCRE+; CN4	Arrhythmic	arrhythmic	N.A.	arrhythmic	N.A.	No segment 3	Arrhythmic				
V3-90	11/26/2010	4/5/2011	7029	m	Vgat-Cre +	Clock(f/f)	Npas2(m/m)	VCRE+; CN4	Arrhythmic	arrhythmic	N.A.	arrhythmic	N.A.	No segment 3	Arrhythmic				
V3-91	11/26/2010	4/5/2011	7030	f	NoCre	Clock(f/f)	Npas2(m/m)	CN4	Rhythmic	Rhythmic	23.58	Rhythmic	23.45	No segment 3	Rhythmic				
V3-92	11/26/2010	4/5/2011	7031	f	Vgat-Cre +	Clock(f/f)	Npas2(m/m)	VCRE+; CN4	Arrhythmic	arrhythmic	N.A.	arrhythmic	N.A.	No segment 3	Arrhythmic				
V3-93	11/6/2011	4/5/2011	7199	f	NoCre	Clock(f/f)	Npas2(m/m)	CN4	Rhythmic	Rhythmic	23.9	Rhythmic	23.85	No segment 3	Rhythmic				
V3-94	11/6/2011	4/5/2011	7198	m	Vgat-Cre +	Clock(f/f)	Npas2(m/m)	VCRE+; CN4	Arrhythmic	arrhythmic	N.A.	arrhythmic	N.A.	No segment 3	Arrhythmic				
V4-36	9/14/2010	4/14/2011	5634	m	Vgat-Cre +	Clock(f/f)	Npas2(m/m)	VCRE+; CN4	Arrhythmic	arrhythmic	N.A.	No segment 2	No segment 3	No segment 3	Arrhythmic				
V4-37	12/20/2010	4/14/2011	7074	f	Vgat-Cre +	Clock(f/f)	Npas2(m/m)	VCRE+; CN4	Arrhythmic	arrhythmic	N.A.	No segment 2	No segment 3	No segment 3	Arrhythmic				
V4-38	12/20/2010	4/14/2011	7076	f	Vgat-Cre +	Clock(f/f)	Npas2(m/m)	VCRE+; CN4	Arrhythmic	arrhythmic	N.A.	No segment 2	No segment 3	No segment 3	Arrhythmic				
V4-39	12/20/2010	4/14/2011	7073	f	Vgat-Cre +	Clock(f/f)	Npas2(m/m)	VCRE+; CN4	Rhythmic	Rhythmic	25.63	No segment 2	No segment 3	No segment 3	Rhythmic				
V4-43	12/20/2010	4/14/2011	7075	f	Vgat-Cre +	Clock(f/f)	Npas2(m/m)	VCRE+; CN4	Arrhythmic	arrhythmic	N.A.	No segment 2	No segment 3	No segment 3	Arrhythmic				
V4-54	1/18/2011	4/14/2011	7212	f	NoCre	Clock(f/f)	Npas2(m/m)	CN4	Rhythmic	Rhythmic	23.78	No segment 2	No segment 3	No segment 3	Rhythmic				
V4-55	1/18/2011	4/14/2011	7211	f	NoCre	Clock(f/f)	Npas2(m/m)	CN4	Rhythmic	Rhythmic	23.9	No segment 2	No segment 3	No segment 3	Rhythmic				
V5-64	5/21/2011	9/2/2011	7639	m	NoCre	Clock(f/f)	Npas2(m/m)	CN4	Rhythmic	Rhythmic	23.7	Rhythmic	23.73	No segment 3	Rhythmic				
V5-65	4/29/2011	9/2/2011	7567	m	Vgat-Cre +	Clock(f/f)	Npas2(m/m)	VCRE+; CN4	Arrhythmic	arrhythmic	N.A.	arrhythmic	N.A.	No segment 3	Arrhythmic				
V5-66	6/23/2011	9/2/2011	7724	m	Vgat-Cre +	Clock(f/f)	Npas2 (WT)	VC	Delayed arrhythmicity	Rhythmic	24.9 (exclude)	arrhythmic	N.A.	Delayed arrhythmicity	Delayed arrhythmicity				
V5-69	6/23/2011	9/2/2011	7727a	f	Vgat-Cre +	Clock(f/f)	Npas2 (WT)	VC	Rhythmic	Rhythmic	23.23	Rhythmic	23.37	No segment 3	Rhythmic				
V5-71	6/23/2011	9/2/2011	7727b	f	Vgat-Cre +	Clock(f/f)	Npas2 (WT)	VC	Rhythmic	Rhythmic	23.95	Rhythmic	23.97	No segment 3	Rhythmic				
V5-73	4/29/2011	9/2/2011	7569	f	NoCre	Clock(f/f)	Npas2(m/m)	CN4	Rhythmic	Rhythmic	23.87	Rhythmic	23.5	No segment 3	Rhythmic				
V5-74	4/29/2011	9/2/2011	7570a	f	Vgat-Cre +	Clock(f/f)	Npas2(m/m)	VCRE+; CN4	Arrhythmic	arrhythmic	N.A.	arrhythmic	N.A.	No segment 3	Arrhythmic				
V5-75	5/21/2011	9/2/2011	7643	f	Vgat-Cre +	Clock(f/f)	Npas2(m/m)	VCRE+; CN4	Delayed arrhythmicity / Arrhythmic	arrhythmic/arrhythmic	24.23	arrhythmic	N.A.	No segment 3	Delayed arrhythmicity / Arrhythmic				
V5-76	5/21/2011	9/2/2011	7642	f	Vgat-Cre +	Clock(f/f)	Npas2(m/m)	VCRE+; CN4	Arrhythmic	arrhythmic	N.A.	arrhythmic	N.A.	No segment 3	Arrhythmic				
V5-77	5/21/2011	9/2/2011	7641	f	NoCre	Clock(f/f)	Npas2(m/m)	CN4	Rhythmic	Rhythmic	23.98	Rhythmic	23.98	No segment 3	Rhythmic				
V5-78	5/21/2011	9/2/2011	7640	f	NoCre	Clock(f/f)	Npas2(m/m)	CN4	Rhythmic	Rhythmic	23.38	Rhythmic	23.63	No segment 3	Rhythmic				
V5-79	4/29/2011	9/2/2011	7570b	f	NoCre	Clock(f/f)	Npas2(m/m)	CN4	Rhythmic	Rhythmic	24.07	Rhythmic	23.98	No segment 3	Rhythmic				
V5-109	9/1/2010	9/2/2011	5588	m	NoCre	Clock(f/f)	Npas2 (WT)	control for VC	Rhythmic	Rhythmic	24.03	Rhythmic	23.9	No segment 3	Rhythmic				
V5-110	4/29/2011	9/2/2011	7568	m	Vgat-Cre +	Clock(f/f)	Npas2(m/m)	VCRE+; CN4	Arrhythmic	arrhythmic	N.A.	arrhythmic	N.A.	No segment 3	Arrhythmic				
V5-111	4/29/2011	9/2/2011	7565	m	NoCre	Clock(f/f)	Npas2(m/m)	CN4	Rhythmic	Rhythmic	22.67	Rhythmic	22.75	No segment 3	Rhythmic				
V5-112	4/29/2011	9/2/2011	7566	m	NoCre	Clock(f/f)	Npas2(m/m)	CN4	Rhythmic	Rhythmic	23.17	Rhythmic	22.93	No segment 3	Rhythmic				
V6-008	7/19/2011	1/23/2012	7889	m	Vgat-Cre +	Clock (WT)	Npas2 (WT)	VCRE+	Rhythmic in seg 1 & through Light Pulses	Rhythmic	23.98	light pulses	light pulses	light pulses	Rhythmic seg 1 & thru LPs, normal				
V6-009	7/19/2011	1/23/2012	7888	m	Vgat-Cre +	Clock (WT)	Npas2 (WT)	VCRE+	Rhythmic in seg 1 & through Light Pulses	Rhythmic	23.97	light pulses	light pulses	light pulses	Rhythmic seg 1 & thru LPs, normal				
V6-011	8/27/2011	1/23/2012	8013	m	Vgat-Cre +	Clock (WT)	Npas2 (WT)	VCRE+	Rhythmic in seg 1 & through Light Pulses	Rhythmic	23.73	light pulses	light pulses	light pulses	Rhythmic seg 1 & thru LPs, normal				
V6-087	4/5/2011	1/23/2012	7451	f	Vgat-Cre +	Clock(f/f)	Npas2(m/+)	CN3-allele	Rhythmic in seg 1, weird in LP segment	Rhythmic	24.3	light pulses	light pulses	light pulses	Rhythmic in seg 1, weird in LP segment				
V6-088	7/26/2011	1/23/2012	7909	f	NoCre	Clock(f/f)	Npas2(m/+)	control for CN3-allele	Rhythmic in seg 1 & through Light Pulses	Rhythmic	23.95	light pulses	light pulses	light pulses	Rhythmic seg 1 & thru LPs, normal				



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Weaver et al., Table S2															
Expt/ch	DOB	DD start	ear#	sex	GT(VgatCre)	GT	GT	unique comb GT	Final Classification	segment 1 calls	segment 1 tau	segment 2 calls	segment 2 tau	Segment 3	Segment 3
V1-94	9/19/2010	12/6/2010	5682	m	Vgat-Cre+	Clock(fl/fl)	Npas2(m/m)	VCRE+; CN4	1 Arrhythmic	arrhythmic	N.A.	Arrhythmic	N.A.	Arrhythmic	N.A.
V1-103	9/15/2010	12/6/2010	5703	f	Vgat-Cre+	Clock(fl/fl)	Npas2(m/m)	VCRE+; CN4	1 Arrhythmic	arrhythmic	N.A.	Arrhythmic	N.A.	Arrhythmic	N.A.
V2-69	10/30/2010	1/25/2011	5919	f	Vgat-Cre+	Clock(fl/fl)	Npas2(m/m)	VCRE+; CN4	1 Arrhythmic	arrhythmic	N.A.	Arrhythmic	N.A.	Arrhythmic	N.A.
V2-72	10/30/2010	1/25/2011	5928	f	Vgat-Cre+	Clock(fl/fl)	Npas2(m/m)	VCRE+; CN4	1 Arrhythmic	arrhythmic	N.A.	Arrhythmic	N.A.	Arrhythmic	N.A.
V2-73	10/30/2010	1/25/2011	5930	f	Vgat-Cre+	Clock(fl/fl)	Npas2(m/m)	VCRE+; CN4	1 Arrhythmic	arrhythmic	N.A.	Arrhythmic	N.A.	Arrhythmic	N.A.
V2-80	10/30/2010	1/25/2011	5922	m	Vgat-Cre+	Clock(fl/fl)	Npas2(m/m)	VCRE+; CN4	1 Arrhythmic	arrhythmic	N.A.	Arrhythmic	N.A.	No segment 3	
V3-88	11/26/2010	4/5/2011	7027	m	Vgat-Cre+	Clock(fl/fl)	Npas2(m/m)	VCRE+; CN4	1 Arrhythmic	arrhythmic	N.A.	Arrhythmic	N.A.	No segment 3	
V3-89	11/26/2010	4/5/2011	7028	m	Vgat-Cre+	Clock(fl/fl)	Npas2(m/m)	VCRE+; CN4	1 Arrhythmic	arrhythmic	N.A.	Arrhythmic	N.A.	No segment 3	
V3-90	11/26/2010	4/5/2011	7029	m	Vgat-Cre+	Clock(fl/fl)	Npas2(m/m)	VCRE+; CN4	1 Arrhythmic	arrhythmic	N.A.	Arrhythmic	N.A.	No segment 3	
V3-92	11/26/2010	4/5/2011	7031	f	Vgat-Cre+	Clock(fl/fl)	Npas2(m/m)	VCRE+; CN4	1 Arrhythmic	arrhythmic	N.A.	Arrhythmic	N.A.	No segment 3	
V3-94	1/16/2011	4/5/2011	7198	m	Vgat-Cre+	Clock(fl/fl)	Npas2(m/m)	VCRE+; CN4	1 Arrhythmic	arrhythmic	N.A.	Arrhythmic	N.A.	No segment 3	
V4-36	9/14/2010	4/14/2011	5634	m	Vgat-Cre+	Clock(fl/fl)	Npas2(m/m)	VCRE+; CN4	1 Arrhythmic	arrhythmic	N.A.	No segment 2		No segment 3	
V4-37	12/20/2010	4/14/2011	7074	f	Vgat-Cre+	Clock(fl/fl)	Npas2(m/m)	VCRE+; CN4	1 Arrhythmic	arrhythmic	N.A.	No segment 2		No segment 3	
V4-38	12/20/2010	4/14/2011	7076	f	Vgat-Cre+	Clock(fl/fl)	Npas2(m/m)	VCRE+; CN4	1 Arrhythmic	arrhythmic	N.A.	No segment 2		No segment 3	
V4-39	12/20/2010	4/14/2011	7073	f	Vgat-Cre+	Clock(fl/fl)	Npas2(m/m)	VCRE+; CN4	1 Rhythmic	Rhythmic	25.63	No segment 2		No segment 3	
V4-43	12/20/2010	4/14/2011	7075	f	Vgat-Cre+	Clock(fl/fl)	Npas2(m/m)	VCRE+; CN4	1 Arrhythmic	arrhythmic	N.A.	No segment 2		No segment 3	
V5-65	4/29/2011	9/2/2011	7567	m	Vgat-Cre+	Clock(fl/fl)	Npas2(m/m)	VCRE+; CN4	1 Arrhythmic	arrhythmic	N.A.	arrhythmic	N.A.	No segment 3	
V5-74	4/29/2011	9/2/2011	7570a	f	Vgat-Cre+	Clock(fl/fl)	Npas2(m/m)	VCRE+; CN4	1 Arrhythmic	arrhythmic	N.A.	arrhythmic	N.A.	No segment 3	
V5-75	5/21/2011	9/2/2011	7643	f	Vgat-Cre+	Clock(fl/fl)	Npas2(m/m)	VCRE+; CN4	1 Delayed arrhythmicity / Arrhythmic	Rhythmic / arrhythmic	24.23	arrhythmic	N.A.	No segment 3	
V5-76	5/21/2011	9/2/2011	7642	f	Vgat-Cre+	Clock(fl/fl)	Npas2(m/m)	VCRE+; CN4	1 Arrhythmic	arrhythmic	N.A.	arrhythmic	N.A.	No segment 3	
V5-110	4/29/2011	9/2/2011	7568	m	Vgat-Cre+	Clock(fl/fl)	Npas2(m/m)	VCRE+; CN4	1 Arrhythmic	arrhythmic	N.A.	arrhythmic	N.A.	No segment 3	
V7-30	12/24/2011	6/23/2012	8157	f	Vgat-Cre+	Clock(fl/fl)	Npas2(m/m)	VCRE+; CN4	1 Arrhythmic	arrhythmic	N.A.	arrhythmic	N.A.	arrhythmic	
V7-31	12/24/2011	6/23/2012	8158	f	Vgat-Cre+	Clock(fl/fl)	Npas2(m/m)	VCRE+; CN4	1 Arrhythmic	arrhythmic	N.A.	arrhythmic	N.A.	no data	
V9-086	7/21/2014	#####	3178	m	Vgat-Cre+	Clock(fl/fl)	Npas2(m/m)	VCRE+; CN4	1 Arrhythmic	arrhythmic	N.A.	arrhythmic	N.A.	arrhythmic	N.A.
V9-087	7/21/2014	#####	3179	m	Vgat-Cre+	Clock(fl/fl)	Npas2(m/m)	VCRE+; CN4	1 Arrhythmic	arrhythmic	N.A.	arrhythmic	N.A.	arrhythmic	N.A.
V9-089	7/22/2014	#####	3213	m	Vgat-Cre+	Clock(fl/fl)	Npas2(m/m)	VCRE+; CN4	1 Arrhythmic	arrhythmic	N.A.	arrhythmic	N.A.	arrhythmic	N.A.
V9-090	4/3/2014	#####	2245	f	Vgat-Cre+	Clock(fl/fl)	Npas2(m/m)	VCRE+; CN4	1 Arrhythmic	arrhythmic	N.A.	arrhythmic	N.A.	arrhythmic	N.A.
V1-87	9/15/2010	12/6/2010	5652	m	NoCre	Clock(fl/fl)	Npas2(m/m)	CN4	2 Rhythmic	Rhythmic	24.02	Rhythmic	23.98	Rhythmic	24.03
V1-90	9/18/2010	12/6/2010	5671	m	NoCre	Clock(fl/fl)	Npas2(m/m)	CN4	2 Rhythmic	Rhythmic	23.53	Rhythmic	23.6	Rhythmic	23.57
V1-91	9/18/2010	12/6/2010	5672	m	NoCre	Clock(fl/fl)	Npas2(m/m)	CN4	2 Rhythmic	Rhythmic	22.98	Rhythmic	23.35	Rhythmic	23.28
V1-92	9/19/2010	12/6/2010	5679	m	NoCre	Clock(fl/fl)	Npas2(m/m)	CN4	2 Rhythmic	Rhythmic	24.18	Rhythmic	24.27	Rhythmic	24.25
V1-96	9/21/2010	12/6/2010	5684	m	NoCre	Clock(fl/fl)	Npas2(m/m)	CN4	2 Rhythmic	Rhythmic	23.68	Rhythmic	23.65	Rhythmic	23.68
V2-67	10/18/2010	1/25/2011	5859	f	NoCre	Clock(fl/fl)	Npas2(m/m)	CN4	2 Rhythmic	Rhythmic	23.93	Rhythmic	24.02	Rhythmic	23.85
V2-76	10/9/2010	1/25/2011	5820	f	NoCre	Clock(fl/fl)	Npas2(m/m)	CN4	2 Rhythmic	Rhythmic	23.85	Rhythmic	23.85	Rhythmic	23.92
V2-77	10/24/2010	1/25/2011	5895	f	NoCre	Clock(fl/fl)	Npas2(m/m)	CN4	2 Rhythmic	Rhythmic	23.42	Rhythmic	23.28	Rhythmic	23.15
V2-79	11/5/2010	1/25/2011	5934	f	NoCre	Clock(fl/fl)	Npas2(m/m)	CN4	2 Rhythmic	Rhythmic	23.6	Rhythmic	23.5	Rhythmic	23.58
V2-109	10/30/2010	1/25/2011	5933	m	NoCre	Clock(fl/fl)	Npas2(m/m)	CN4	2 Rhythmic	Rhythmic	23.9	Rhythmic	23.87	Rhythmic	23.77
V3-86	11/26/2010	4/5/2011	5999	m	NoCre	Clock(fl/fl)	Npas2(m/m)	CN4	2 Rhythmic	Rhythmic	24.03	Rhythmic	23.98	No segment 3	
V3-87	11/26/2010	4/5/2011	7026	m	NoCre	Clock(fl/fl)	Npas2(m/m)	CN4	2 Rhythmic	Rhythmic	24.25	Rhythmic	24.3	No segment 3	
V3-91	11/26/2010	4/5/2011	7030	f	NoCre	Clock(fl/fl)	Npas2(m/m)	CN4	2 Rhythmic	Rhythmic	23.58	Rhythmic	23.45	No segment 3	
V3-93	1/16/2011	4/5/2011	7199	f	NoCre	Clock(fl/fl)	Npas2(m/m)	CN4	2 Rhythmic	Rhythmic	23.9	Rhythmic	23.85	No segment 3	
V4-54	1/18/2011	4/14/2011	7212	f	NoCre	Clock(fl/fl)	Npas2(m/m)	CN4	2 Rhythmic	Rhythmic	23.78	No segment 2		No segment 3	
V4-55	1/18/2011	4/14/2011	7211	f	NoCre	Clock(fl/fl)	Npas2(m/m)	CN4	2 Rhythmic	Rhythmic	23.9	No segment 2		No segment 3	
V5-64	5/21/2011	9/2/2011	7639	m	NoCre	Clock(fl/fl)	Npas2(m/m)	CN4	2 Rhythmic	Rhythmic	23.7	Rhythmic	23.73	No segment 3	
V5-73	4/29/2011	9/2/2011	7569	f	NoCre	Clock(fl/fl)	Npas2(m/m)	CN4	2 Rhythmic	Rhythmic	23.87	Rhythmic	23.5	No segment 3	
V5-77	5/21/2011	9/2/2011	7641	f	NoCre	Clock(fl/fl)	Npas2(m/m)	CN4	2 Rhythmic	Rhythmic	23.98	Rhythmic	23.98	No segment 3	
V5-78	5/21/2011	9/2/2011	7640	f	NoCre	Clock(fl/fl)	Npas2(m/m)	CN4	2 Rhythmic	Rhythmic	23.38	Rhythmic	23.63	No segment 3	
V5-79	4/29/2011	9/2/2011	7570b	f	NoCre	Clock(fl/fl)	Npas2(m/m)	CN4	2 Rhythmic	Rhythmic	24.07	Rhythmic	23.98	No segment 3	
V5-111	4/29/2011	9/2/2011	7565	m	NoCre	Clock(fl/fl)	Npas2(m/m)	CN4	2 Rhythmic	Rhythmic	22.67	Rhythmic	22.75	No segment 3	
V5-112	4/29/2011	9/2/2011	7566	m	NoCre	Clock(fl/fl)	Npas2(m/m)	CN4	2 Rhythmic	Rhythmic	23.17	Rhythmic	22.93	No segment 3	
V9-088	7/21/2014	#####	3180	m	NoCre	Clock(fl/fl)	Npas2(m/m)	CN4	2 Rhythmic	Rhythmic	23.48	Rhythmic	23.47	Rhythmic	23.47
V9-091	7/22/2014	#####	3217	f	NoCre	Clock(fl/fl)	Npas2(m/m)	CN4	2 Rhythmic	Rhythmic	23.68	Rhythmic	23.92	Rhythmic	23.6
V1-98	9/21/2010	12/6/2010	5686	m	Vgat-Cre+	Clock(fl/fl)	Npas2(m/+)	CN3-allele	3 Delayed arrhythmicity	rhythmic	23.92	Rhythmic / delayed AR	24.23	Arrhythmic	N.A.
V1-99	9/21/2010	12/6/2010	5687	m	Vgat-Cre+	Clock(fl/fl)	Npas2(m/+)	CN3-allele	3 Delayed arrhythmicity	rhythmic	24.2	Arrhythmic	N.A.	Arrhythmic	N.A.
V2-75	10/9/2010	1/25/2011	5822	f	Vgat-Cre+	Clock(fl/fl)	Npas2(m/+)	CN3-allele	3 Rhythmic	Rhythmic	23.22	Rhythmic	22.35	Rhythmic	21.92
V6-087	4/5/2011	1/23/2012	7451	f	Vgat-Cre+	Clock(fl/fl)	Npas2(m/+)	CN3-allele	3 Rhythmic in seg 1; weird in LP segment	Rhythmic	24.3	light pulses		light pulses	
V6-093	7/26/2011	1/23/2012	7905	f	Vgat-Cre+	Clock(fl/fl)	Npas2(m/+)	CN3-allele	3 Rhythmic in seg 1; weird in LP segment	Rhythmic then AR	25.38	light pulses		light pulses	
V6-096	7/8/2011	1/23/2012	7834	m	Vgat-Cre+	Clock(fl/fl)	Npas2(m/+)	CN3-allele	3 Rhythmic in seg 1; weird in LP segment	Rhythmic	24.7	light pulses		light pulses	
V2-78	10/9/2010	1/25/2011	5821	f	NoCre	Clock(fl/fl)	Npas2(m/+)	control for CN3-allele	4 Rhythmic	Rhythmic	24.03	Rhythmic	24.12	Rhythmic	24.22
V6-088	7/26/2011	1/23/2012	7909	f	NoCre	Clock(fl/fl)	Npas2(m/+)	control for CN3-allele	4 Rhythmic in seg 1 & through Light Pulses	Rhythmic	23.95	light pulses		light pulses	
V1-88	9/15/2010	12/6/2010	5655	m	Vgat-Cre+	Clock(fl/+)	Npas2(m/m)	CN-3opposite	5 Rhythmic	Rhythmic	23.93	Rhythmic	24.08	Rhythmic	24.07
V1-89	9/15/2010	12/6/2010	5699	m	Vgat-Cre+	Clock(fl/+)	Npas2(m/m)	CN-3opposite	5 Rhythmic	Rhythmic	23.37	Rhythmic	23.58	Rhythmic	23.63
V1-95	9/19/2010	12/6/2010	5683	m	Vgat-Cre+	Clock(fl/+)	Npas2(m/m)	CN-3opposite	5 Rhythmic	Rhythmic	23.67	Rhythmic	23.6	Rhythmic	23.63
V1-100	9/21/2010	12/6/2010	5688	m	Vgat-Cre+	Clock(fl/+)	Npas2(m/m)	CN-3opposite	5 Rhythmic	Rhythmic	23.93	Rhythmic	23.97	Rhythmic	23.98
V1-102	9/15/2010	12/6/2010	5702	f	Vgat-Cre+	Clock(fl/+)	Npas2(m/m)	CN-3opposite	5 Rhythmic	Rhythmic	23.45	Rhythmic	23.02	Rhythmic	22.9
V2-112	10/24/2010	1/25/2011	5894	m	Vgat-Cre+	Clock(fl/+)	Npas2(m/m)	CN-3opposite	5 Rhythmic	Rhythmic	23.55	Rhythmic	23.53	Rhythmic	23.55
V2-66	10/18/2010	1/25/2011	5862	f	Vgat-Cre+	Clock(fl/+)	Npas2(m/m)	CN-3opposite	5 Rhythmic	Rhythmic	23.7	Rhythmic	23.6	Rhythmic	23.82

V1-86	9/15/2010	12/6/2010	5651	m	NoCre	Clock(f/+)	Npas2(m/m)	control for CN3-opposite	6	Rhythmic	Rhythmic	22.77	Rhythmic	23.27	Rhythmic	23.13
V2-111	10/24/2010	1/25/2011	5891	m	NoCre	Clock(f/+)	Npas2(m/m)	control for CN3-opposite	6	Rhythmic	Rhythmic	23.3	Rhythmic	23.18	No segment 3	
V5-66	6/23/2011	9/2/2011	7724	m	Vgat-Cre+	Clock(f/f)	Npas2 (WT)	VC	7	Delayed arrhythmicity	Rhythmic	24.9 (exclude)	arrhythmic	N.A.	No segment 3	
V5-69	6/23/2011	9/2/2011	7727a	f	Vgat-Cre+	Clock(f/f)	Npas2 (WT)	VC	7	Rhythmic	Rhythmic	23.23	Rhythmic	23.37	No segment 3	
V5-71	6/23/2011	9/2/2011	7727b	f	Vgat-Cre+	Clock(f/f)	Npas2 (WT)	VC	7	Rhythmic	Rhythmic	23.95	Rhythmic	23.97	No segment 3	
V6-091	4/5/2011	1/23/2012	7452	f	Vgat-Cre+	Clock(f/f)	Npas2 (WT)	VC	7	Rhythmic in seg 1; weird in LP segment	Rhythmic	23.18	light pulses		light pulses	
V6-094	7/26/2011	1/23/2012	7906	m	Vgat-Cre+	Clock(f/f)	Npas2 (WT)	VC	7	Rhythmic in seg 1; weird in LP segment	Rhythmic	24	light pulses		light pulses	
V6-095	7/8/2011	1/23/2012	7833	m	Vgat-Cre+	Clock(f/f)	Npas2 (WT)	VC	7	Rhythmic in seg 1; weird in LP segment	Rhythmic	23.85	light pulses		light pulses	
V6-097	7/8/2011	1/23/2012	7837	f	Vgat-Cre+	Clock(f/f)	Npas2 (WT)	VC	7	Rhythmic seg 1 & big phase shifts	Rhythmic	24.22	light pulses		light pulses	
V6-098	7/8/2011	1/23/2012	7838	f	Vgat-Cre+	Clock(f/f)	Npas2 (WT)	VC	7	Rhythmic in seg 1; weird in LP segment	Rhythmic	23.37	light pulses		light pulses	
V6-099	7/8/2011	1/23/2012	7839	f	Vgat-Cre+	Clock(f/f)	Npas2 (WT)	VC	7	Rhythmic in seg 1 & through Light Pulses	Rhythmic	23.13	light pulses		light pulses	
V6-100	7/8/2011	1/23/2012	7840	f	Vgat-Cre+	Clock(f/f)	Npas2 (WT)	VC	7	Rhythmic seg 1 & big phase shifts	Rhythmic	23.08	light pulses		light pulses	
V5-109	9/1/2010	9/2/2011	5588	m	NoCre	Clock(f/f)	Npas2 (WT)	control for VC	8	Rhythmic	Rhythmic	24.03	Rhythmic	23.9	No segment 3	
V6-089	7/26/2011	1/23/2012	7908	f	NoCre	Clock(f/f)	Npas2 (WT)	control for VC	8	Rhythmic in seg 1 & through Light Pulses	Rhythmic	23.95	light pulses		light pulses	
V6-090	7/26/2011	1/23/2012	7907	f	NoCre	Clock(f/f)	Npas2 (WT)	control for VC	8	Rhythmic in seg 1 & through Light Pulses	Rhythmic	23.8	light pulses		light pulses	
V1-97	9/21/2010	12/6/2010	5685	m	Vgat-Cre+	Clock(f/+)	Npas2(m/+)	CN-double-het	9	Rhythmic	Rhythmic	23.95	Rhythmic	23.98	Rhythmic	24.07
V1-101	9/21/2010	12/6/2010	5689	m	Vgat-Cre+	Clock(f/+)	Npas2(m/+)	CN-double-het	9	Rhythmic	Rhythmic	23.88	Rhythmic	23.88	Rhythmic	23.88
V2-64	10/30/2010	1/25/2011	5929	f	Vgat-Cre+	Clock(f/+)	Npas2(m/+)	CN-double-het	9	Rhythmic	Rhythmic	23.98	Rhythmic	24.03	Rhythmic	23.98
V2-82	10/30/2010	1/25/2011	5924	m	Vgat-Cre+	Clock(f/+)	Npas2(m/+)	CN-double-het	9	Rhythmic	Rhythmic	23.77	Rhythmic	23.75	Rhythmic	23.92
V2-110	10/24/2010	1/25/2011	5893	m	Vgat-Cre+	Clock(f/+)	Npas2(m/+)	CN-double-het	9	Rhythmic	Rhythmic	23.77	Rhythmic	23.97	Rhythmic	24.18
V6-008	7/19/2011	1/23/2012	7889	m	Vgat-Cre+	Clock (WT)	Npas2 (WT)	VCRE+	10	Rhythmic in seg 1 & through Light Pulses	Rhythmic	23.98	light pulses		light pulses	
V6-009	7/19/2011	1/23/2012	7888	m	Vgat-Cre+	Clock (WT)	Npas2 (WT)	VCRE+	10	Rhythmic in seg 1 & through Light Pulses	Rhythmic	23.97	light pulses		light pulses	
V6-011	8/27/2011	1/23/2012	8013	m	Vgat-Cre+	Clock (WT)	Npas2 (WT)	VCRE+	10	Rhythmic in seg 1 & through Light Pulses	Rhythmic	23.73	light pulses		light pulses	
V6-101	9/21/2011	1/23/2012	8061	m	Vgat-Cre+	Clock (WT)	Npas2 (WT)	VCRE+	10	Rhythmic in seg 1 & through Light Pulses	Rhythmic	23.5	light pulses		light pulses	
V6-102	9/21/2011	1/23/2012	8062	m	Vgat-Cre+	Clock (WT)	Npas2 (WT)	VCRE+	10	Rhythmic in seg 1 & through Light Pulses	Rhythmic	23.72	light pulses		light pulses	
V6-103	9/21/2011	1/23/2012	8063	m	Vgat-Cre+	Clock (WT)	Npas2 (WT)	VCRE+	10	Rhythmic in seg 1 & through Light Pulses	Rhythmic	23.93	light pulses		light pulses	
V6-104	8/27/2011	1/23/2012	8012	m	Vgat-Cre+	Clock (WT)	Npas2 (WT)	VCRE+	10	Rhythmic in seg 1 & through Light Pulses	Rhythmic	24	light pulses		light pulses	
V6-105	9/21/2011	1/23/2012	8064	f	Vgat-Cre+	Clock (WT)	Npas2 (WT)	VCRE+	10	Rhythmic in seg 1 & through Light Pulses	Rhythmic	23.55	light pulses		light pulses	
V8-087	3/10/2012	8/7/2012	8239	m	Vgat-Cre+	Clock (WT)	Npas2 (WT)	VCRE+	10	Rhythmic in seg 1 & through Light Pulses	Rhythmic	23.75	light pulses		light pulses	
V8-088	3/10/2012	8/7/2012	8242	m	Vgat-Cre+	Clock (WT)	Npas2 (WT)	VCRE+	10	Rhythmic in seg 1 & through Light Pulses	Rhythmic	23.72	light pulses		light pulses	
V8-089	3/10/2012	8/7/2012	8216	f	Vgat-Cre+	Clock (WT)	Npas2 (WT)	VCRE+	10	Rhythmic in seg 1 & through Light Pulses	Rhythmic	23.82	light pulses		light pulses	
V8-090	2/8/2012	8/7/2012	8203	m	Vgat-Cre+	Clock (WT)	Npas2 (WT)	VCRE+	10	Rhythmic in seg 1 & through Light Pulses	Rhythmic	23.68	light pulses		light pulses	
V8-091	3/10/2012	8/7/2012	8245	f	Vgat-Cre+	Clock (WT)	Npas2 (WT)	VCRE+	10	Rhythmic in seg 1 & through Light Pulses	Rhythmic	23.68	light pulses		light pulses	
V8-092	4/15/2012	8/7/2012	8370	f	Vgat-Cre+	Clock (WT)	Npas2 (WT)	VCRE+	10	Rhythmic in seg 1 & through Light Pulses	Rhythmic	23.9	light pulses		light pulses	
V8-093	5/16/2012	8/7/2012	8557	m	Vgat-Cre+	Clock (WT)	Npas2 (WT)	VCRE+	10	Rhythmic in seg 1 & through Light Pulses	Rhythmic	23.87	light pulses		light pulses	
V8-094	2/8/2012	8/7/2012	8202	m	Vgat-Cre+	Clock (WT)	Npas2 (WT)	VCRE+	10	Rhythmic in seg 1 & through Light Pulses	Rhythmic	23.87	light pulses		light pulses	
V8-098	2/5/2012	8/7/2012	8193	m	Vgat-Cre+	Clock (WT)	Npas2 (WT)	VCRE+	10	Rhythmic in seg 1 & through Light Pulses	Rhythmic	23.82	light pulses		light pulses	
V8-102	2/3/2012	8/7/2012	8194	m	Vgat-Cre+	Clock (WT)	Npas2 (WT)	VCRE+	10	Rhythmic in seg 1 & through Light Pulses	Rhythmic	23.87	light pulses		light pulses	
V10-38	7/21/2014	#####	3191	m	Vgat-CRE+	Bmal1(f/f)		VCRE+; Bmal1(f/f)	12	Arrhythmic	Arrhythmic	N.A.	Arrhythmic	N.A.	Arrhythmic	N.A.
V10-40	7/21/2014	#####	3188	m	Vgat-CRE+	Bmal1(f/f)		VCRE+; Bmal1(f/f)	12	Arrhythmic	Arrhythmic	N.A.	Arrhythmic	N.A.	Arrhythmic	N.A.
V10-43	7/17/2014	#####	3131	m	Vgat-CRE+	Bmal1(f/f)		VCRE+; Bmal1(f/f)	12	Arrhythmic	Arrhythmic	N.A.	Arrhythmic	N.A.	Arrhythmic	N.A.
V10-44	7/17/2014	#####	3129	m	Vgat-CRE+	Bmal1(f/f)		VCRE+; Bmal1(f/f)	12	Arrhythmic	Arrhythmic	N.A.	Arrhythmic	N.A.	Arrhythmic	N.A.
V10-51	8/18/2014	#####	3478	m	Vgat-CRE+	Bmal1(f/f)		VCRE+; Bmal1(f/f)	12	Arrhythmic	Arrhythmic	N.A.	Arrhythmic	N.A.	Arrhythmic	N.A.
V10-53	8/17/2014	#####	3471	m	Vgat-CRE+	Bmal1(f/f)		VCRE+; Bmal1(f/f)	12	Arrhythmic	Arrhythmic	N.A.	Arrhythmic	N.A.	Arrhythmic	N.A.
V10-54	8/18/2014	#####	3475	m	Vgat-CRE+	Bmal1(f/f)		VCRE+; Bmal1(f/f)	12	Arrhythmic	Arrhythmic	N.A.	Arrhythmic	N.A.	Arrhythmic	N.A.
V10-55	8/18/2014	#####	3477	m	Vgat-CRE+	Bmal1(f/f)		VCRE+; Bmal1(f/f)	12	Arrhythmic	Arrhythmic	N.A.	Arrhythmic	N.A.	Arrhythmic	N.A.
V10-63	8/17/2014	#####	3474	f	Vgat-CRE+	Bmal1(f/f)		VCRE+; Bmal1(f/f)	12	Arrhythmic	Arrhythmic	N.A.	Arrhythmic	N.A.	Arrhythmic	N.A.
V10-36	6/1/2014	#####	2650	m	Vgat-CRE+	(WT)		VCRE+	13	Rhythmic	Rhythmic	23.9	Rhythmic	23.98	Rhythmic	23.98
V10-45	6/7/2014	#####	2814	m	Vgat-CRE+	(WT)		VCRE+	13	Rhythmic	Rhythmic	23.93	Rhythmic	23.8	Rhythmic	23.93
V10-56	5/31/2014	#####	2659	f	Vgat-CRE+	(WT)		VCRE+	13	Rhythmic	Rhythmic	23.9	Rhythmic	23.97	Rhythmic	23.93
V10-57	6/1/2014	#####	2652	f	Vgat-CRE+	(WT)		VCRE+	13	Rhythmic	Rhythmic	23.78	Rhythmic	23.67	Rhythmic	23.7
V10-58	6/8/2014	#####	2820	f	Vgat-CRE+	(WT)		VCRE+	13	Rhythmic	Rhythmic	23.73	Rhythmic	23.55	Rhythmic	23.33
V10-37	6/1/2014	#####	2649	m	NoCre	Bmal1(f/f)		Bmal1(f/f)	14	Rhythmic	Rhythmic	23.87	Rhythmic	23.87	Rhythmic	23.92
V10-39	7/21/2014	#####	3190	m	NoCre	Bmal1(f/f)		Bmal1(f/f)	14	Rhythmic	Rhythmic	23.78	Rhythmic	23.87	Rhythmic	23.95
V10-41	6/4/2014	#####	2781	m	NoCre	Bmal1(f/f)		Bmal1(f/f)	14	Rhythmic	Rhythmic	23.52	Rhythmic	23.47	Rhythmic	23.4
V10-42	6/4/2014	#####	2783	m	NoCre	Bmal1(f/f)		Bmal1(f/f)	14	Rhythmic	Rhythmic	23.8	Rhythmic	23.88	Rhythmic	23.85
V10-50	8/18/2014	#####	3476	m	NoCre	Bmal1(f/f)		Bmal1(f/f)	14	Rhythmic	Rhythmic	23.37	Rhythmic	23.55	Rhythmic	23.8
V10-52	8/17/2014	#####	3472	m	NoCre	Bmal1(f/f)		Bmal1(f/f)	14	Rhythmic	Rhythmic	23.62	Rhythmic	23.78	Rhythmic	23.85
V10-59	7/17/2014	#####	3133	f	NoCre	Bmal1(f/f)		Bmal1(f/f)	14	Rhythmic	Rhythmic	23.82	Rhythmic	23.93	Rhythmic	23.87
V10-60	6/5/2014	#####	2792	f	NoCre	Bmal1(f/f)		Bmal1(f/f)	14	Rhythmic	Rhythmic	23.68	Rhythmic	23.72	Rhythmic	23.73
V10-61	5/30/2014	#####	2647	f	NoCre	Bmal1(f/f)		Bmal1(f/f)	14	Rhythmic	Rhythmic	23.87	Rhythmic	23.95	Rhythmic	23.85
V10-62	7/21/2014	#####	3194	f	NoCre	Bmal1(f/f)		Bmal1(f/f)	14	Rhythmic	Rhythmic	23.83	Rhythmic	23.95	Rhythmic	23.8

## Supplemental Figure Legends

**Figure S1.** Double-plotted actograms of all animals reported in this study. Each animal is identified by a unique code consisting of cohort (V1 through V-10), hyphen, channel number. Genotypes are listed above each actogram. Light is indicated by yellow shading.

**Figure S2.** Persistence of rhythmicity in one *Vgat-Cre<sup>+</sup>; Clock<sup>fl/fl</sup>; Npas2<sup>m/+</sup>* mouse (V2-75). Two other mice of this genotype became arrhythmic with extended time in constant darkness, as shown in Figure 4.

**Figure S3.** Severely disrupted rhythms and abnormal responses to light pulses (LP) in *Vgat-Cre<sup>+</sup>; Clock<sup>fl/fl</sup>; Npas2<sup>m/m</sup>* mice. Actograms of mice V6-93 (A), V6-87 (B) and V6-96 (C) are shown. Light exposure is in yellow; darkness is gray. The timing of light pulses is indicated at the right of each panel.

**Figure S4.** Gradual loss of rhythmicity in one *Vgat-Cre<sup>+</sup>; Clock<sup>fl/fl</sup>* mouse (V5-66). This animal is atypical for this genotype, with other *Vgat-Cre<sup>+</sup>; Clock<sup>fl/fl</sup>* mice having sustained circadian rhythmicity with a short period in constant darkness.

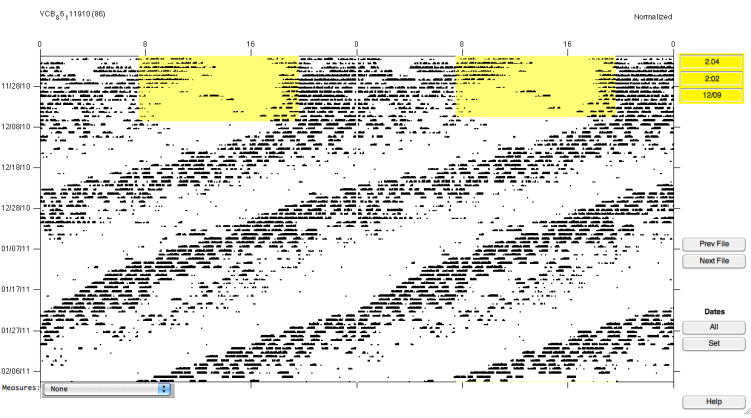
# Weaver et al., Supplemental Figure S1

Double-plotted actograms of each animal studied, organized by Cohort.  
Light is indicated by yellow shading.

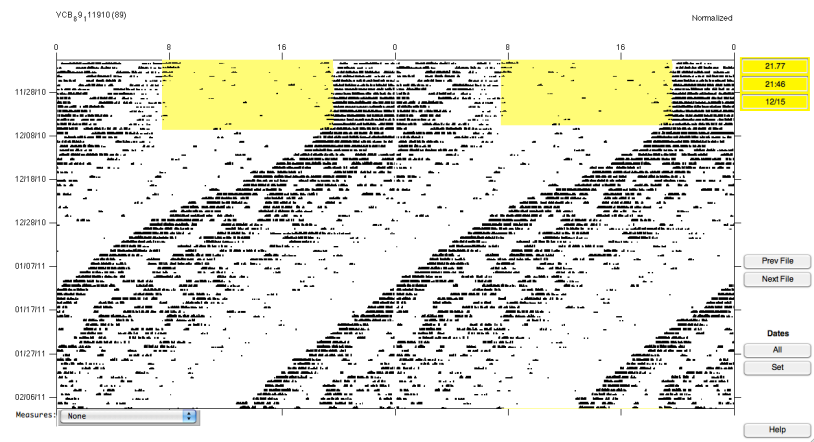
Demographic information and assessment of rhythmicity are listed in Table S1.  
Raw data are in Table S2.

V1-086 NoCre Clock(fl/+) Npas2(m/m) male 5651

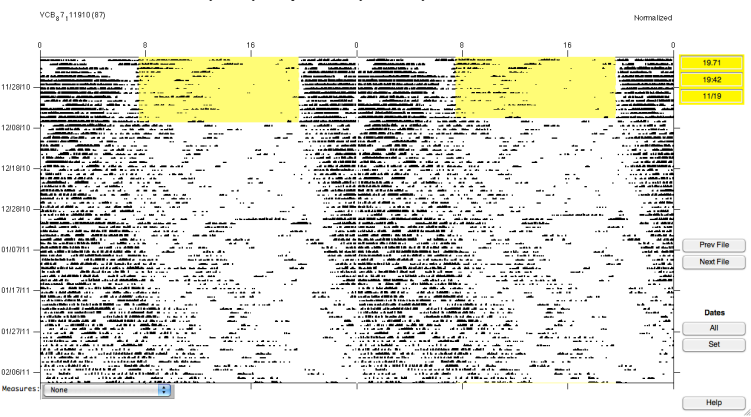
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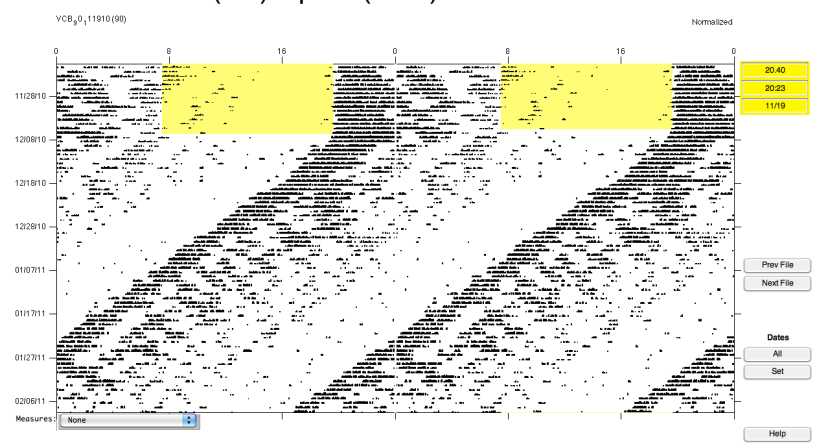
V1-089 VgatCre+ Clock(fl/+) Npas2(m/m) male 5699



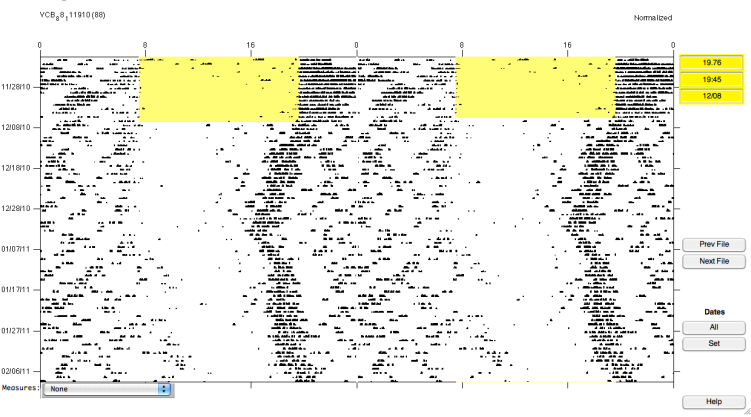
V1-087 NoCre Clock(fl/fl) Npas2(m/m) male 5652



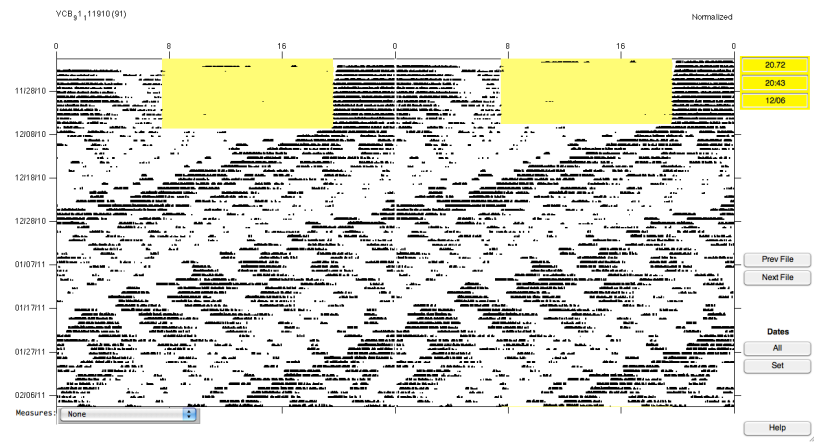
V1-090 NoCre Clock(fl/fl) Npas2(m/m) male 5671



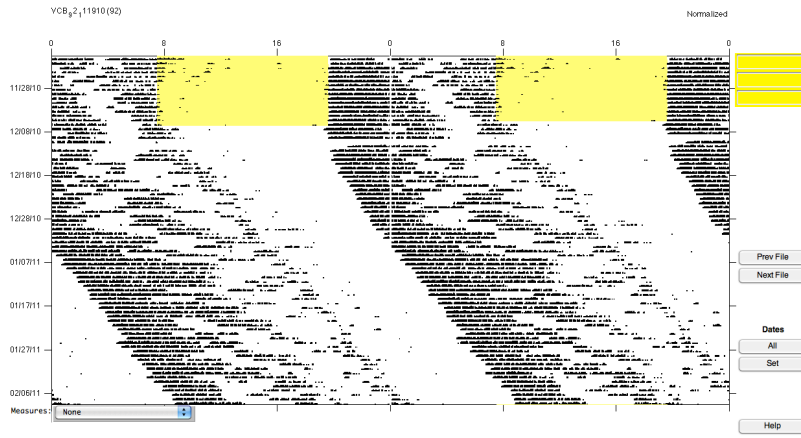
V1-088 VgatCre+ Clock(fl/+) Npas2(m/m) male 5655



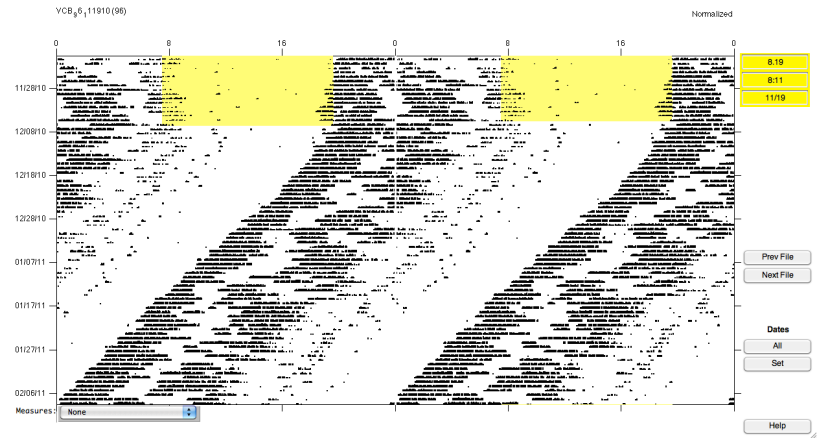
V1-091 NoCre Clock(fl/fl) Npas2(m/m) male 5672



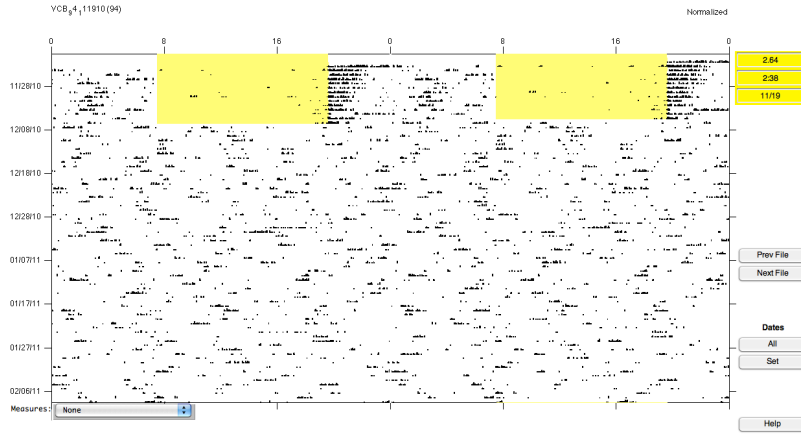
V1-092 NoCre Clock(fl/fl) Npas2(m/m) male 5679



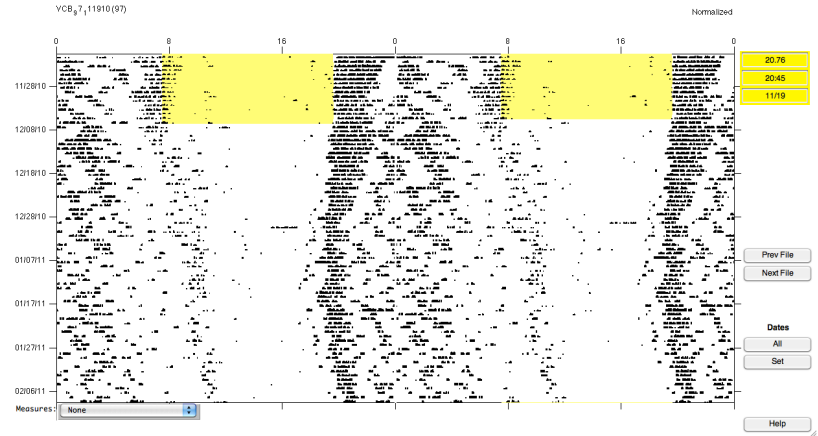
V1-096 NoCre Clock(fl/fl) Npas2(m/m) male 5684



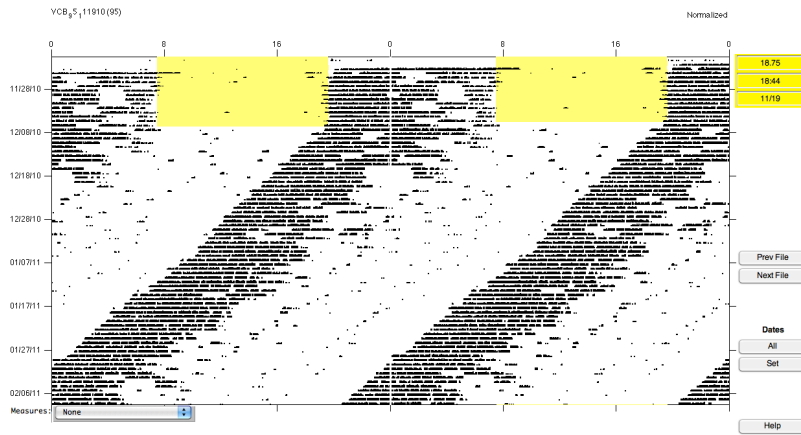
V1-094 Vgat-Cre+ Clock(fl/fl) Npas2(m/m) male 5682



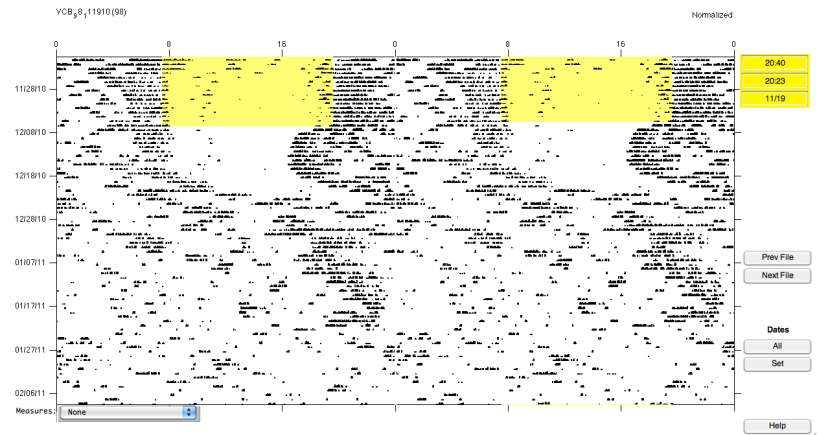
V1-097 Vgat-Cre+ Clock(fl/+) Npas2(m/+) male 5685



V1-095 Vgat-Cre+ Clock(fl/+) Npas2(m/m) male 5683



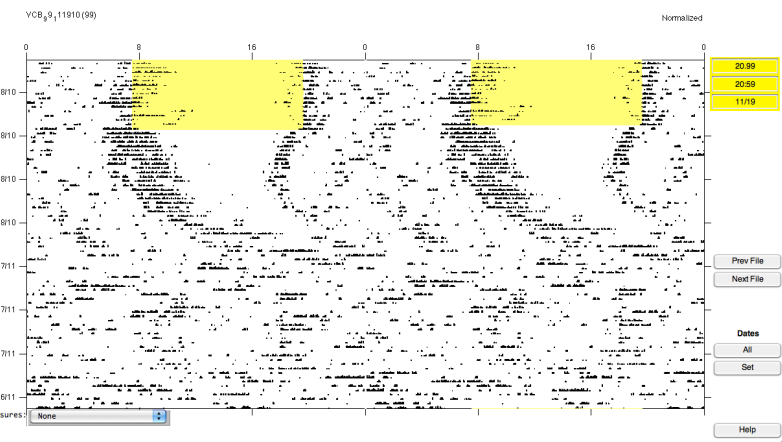
V1-098 Vgat-Cre+ Clock(fl/fl) Npas2(m/+) male 5686



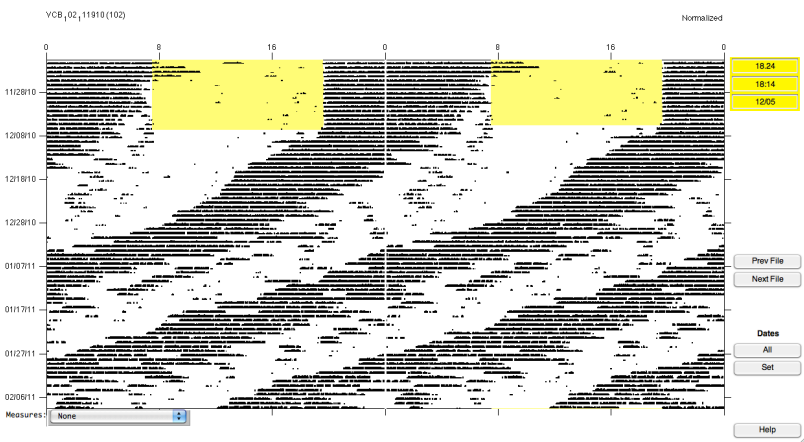


V1- 099 Vgat-Cre+ Clock(fl/fl) Npas2(m/+) male 5687

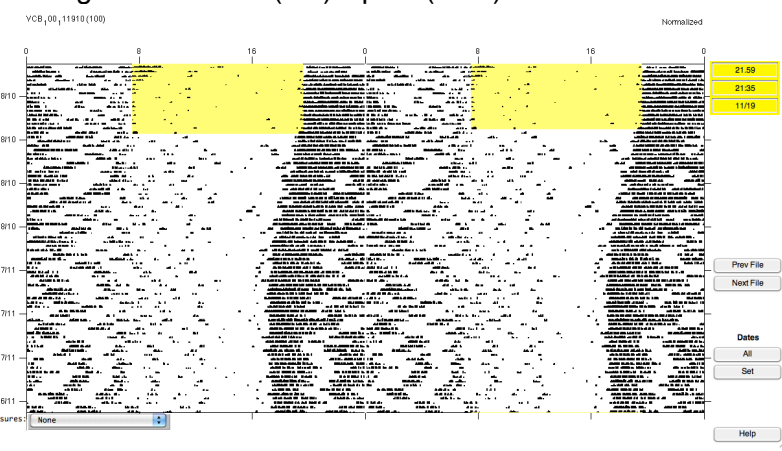
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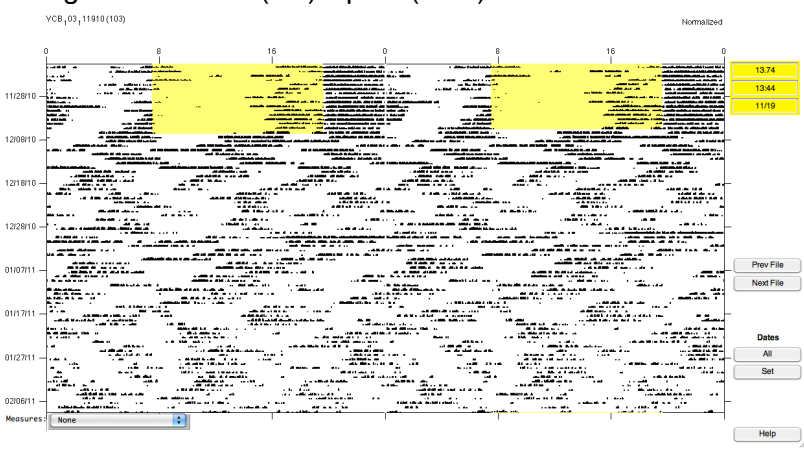
V1-102 Vgat-Cre+ Clock(fl/+) Npas2(m/m) female 5702



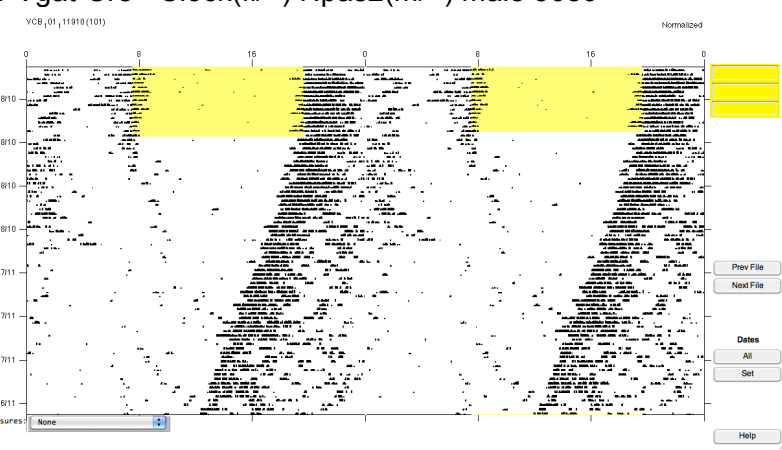
V1-100 Vgat-Cre+ Clock(fl/+) Npas2(m/m) male 5688



V1-103 Vgat-Cre+ Clock(fl/fl) Npas2(m/m) female 5703

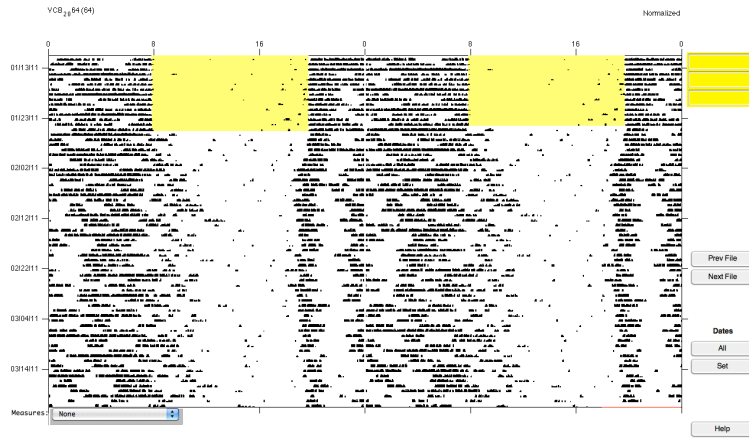


V1-101 Vgat-Cre+ Clock(fl/+) Npas2(m/+) male 5689

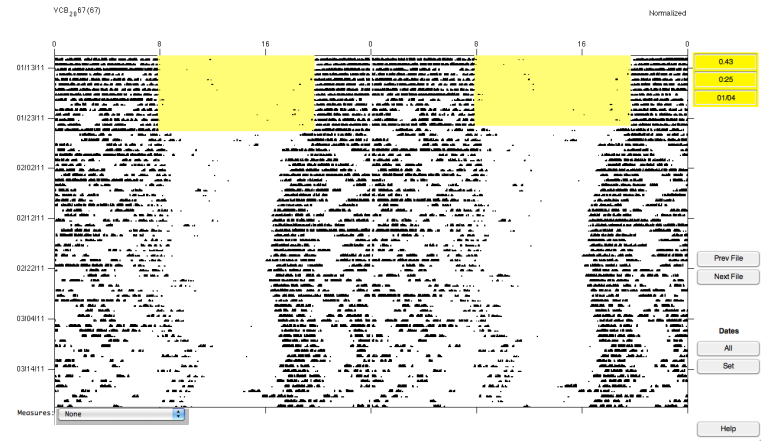


Experiment V2

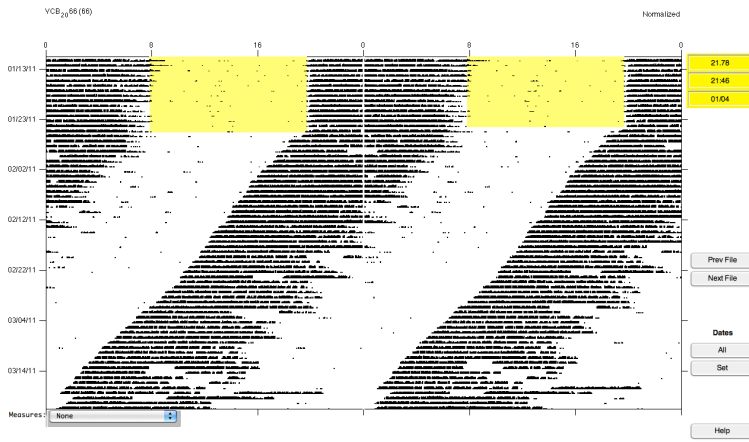
V2-64 Vgat-Cre+ Clock(fl/+) Npas2(m/+) female 5929



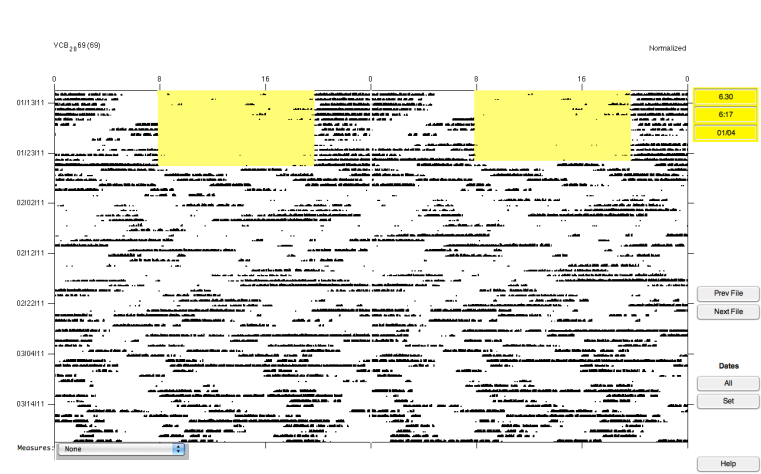
V2-67 No Cre Clock(fl/fl) Npas2(m/m) female 5859



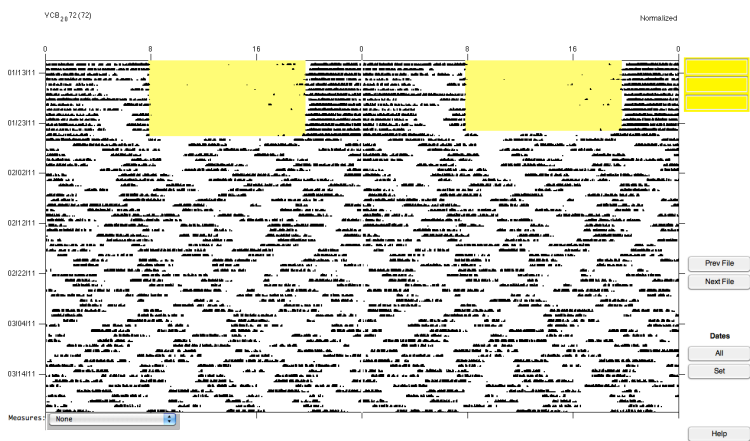
V2-66 Vgat-Cre+ Clock(fl/+) Npas2(m/m) female 5862



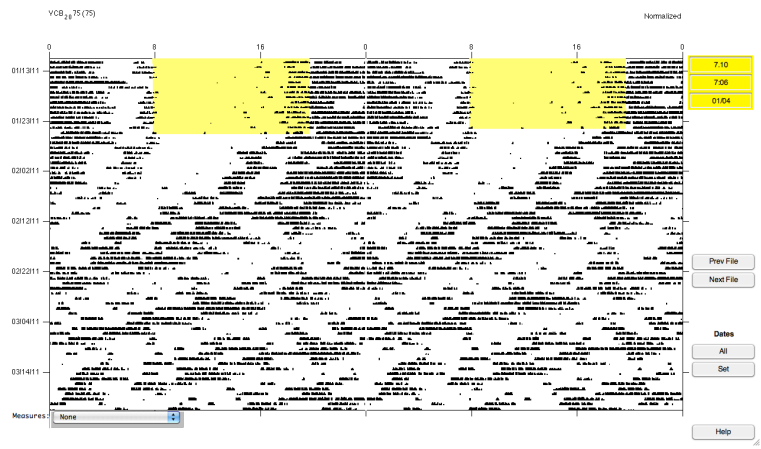
V2-69 Vgat-Cre+ Clock(fl/fl) Npas2(m/m) female 5919



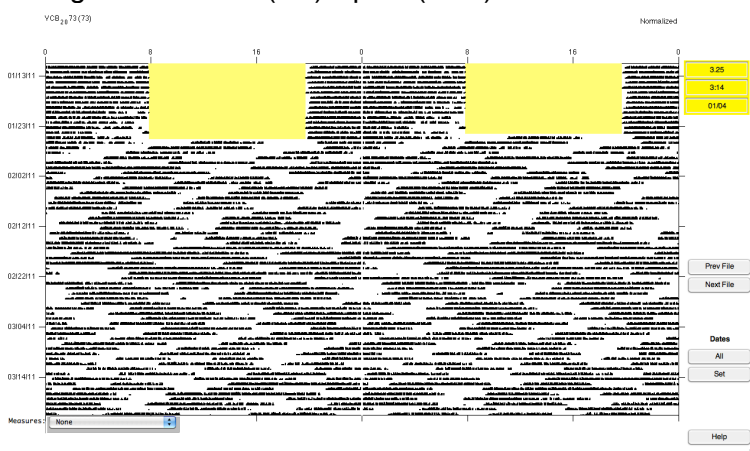
V2-72 Vgat-Cre+ Clock(fl/fl) Npas2(m/m) female 5928



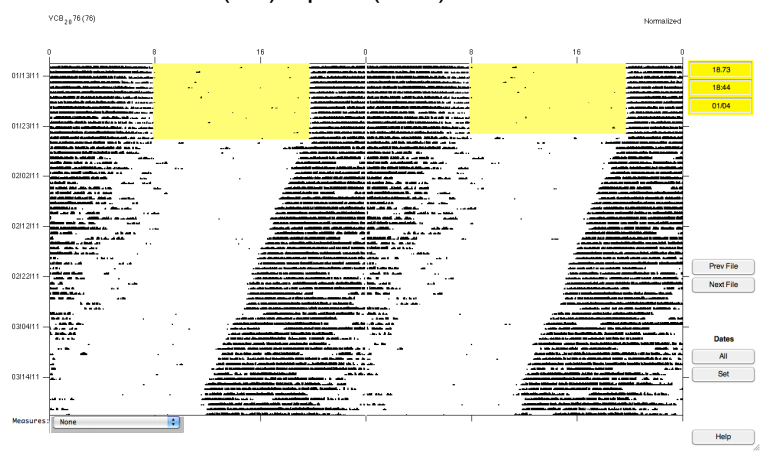
V2-75 Vgat-Cre+ Clock(fl/fl) Npas2(m/+) female 5822



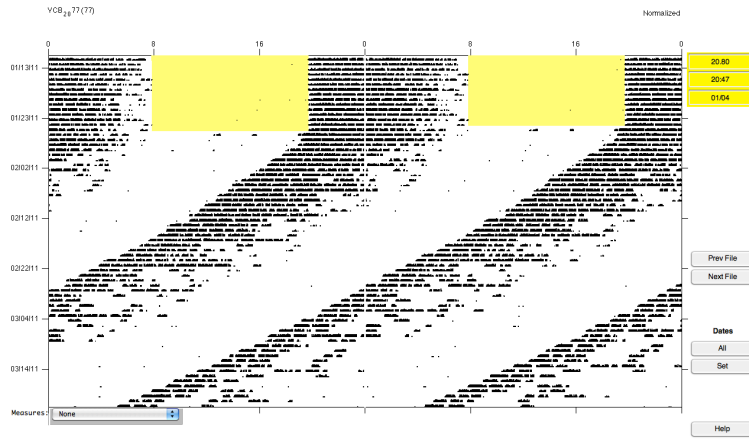
V2-73 Vgat-Cre+ Clock(fl/fl) Npas2(m/m) female 5930



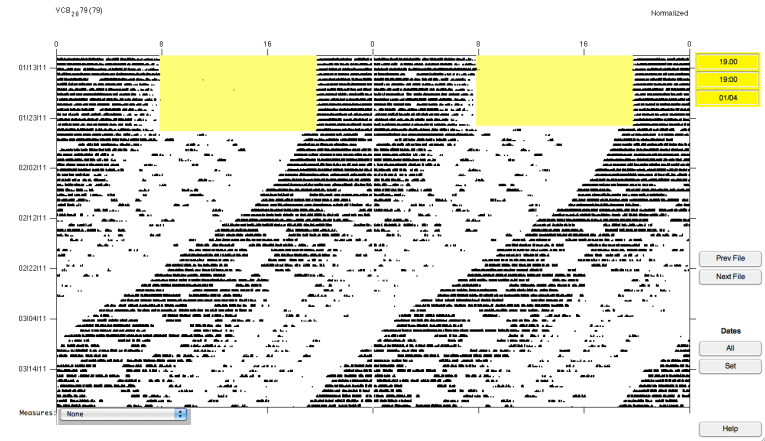
V2-76 No Cre Clock(fl/fl) Npas2(m/m) female 5820



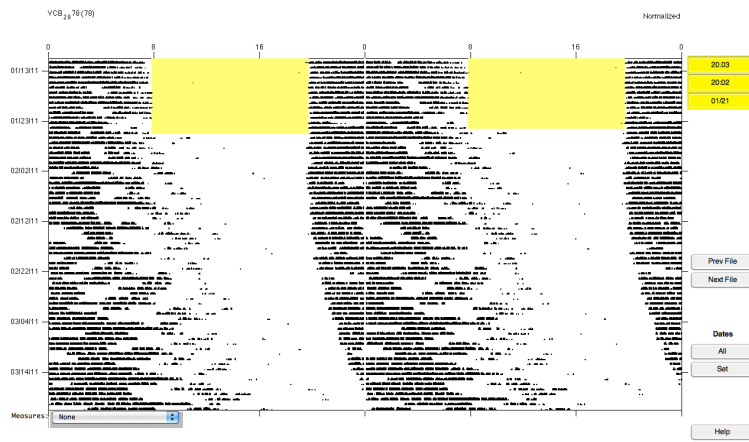
## V2-77 No Cre Clock(fl/fl) Npas2(m/m) female 5895



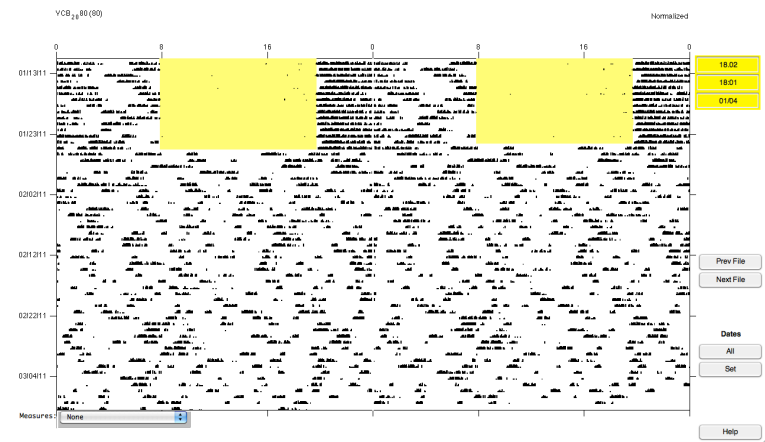
## V2-79 No Cre Clock(fl/fl) Npas2(m/m) female 5934



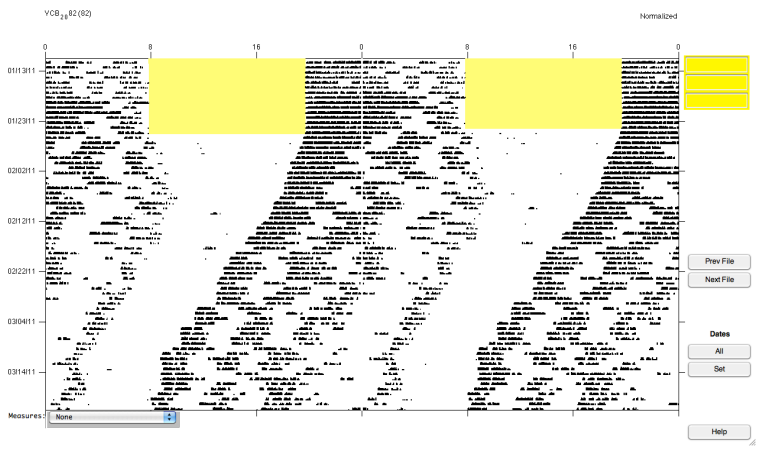
## V2-78 No Cre Clock(fl/fl) Npas2(m/+) female 5821



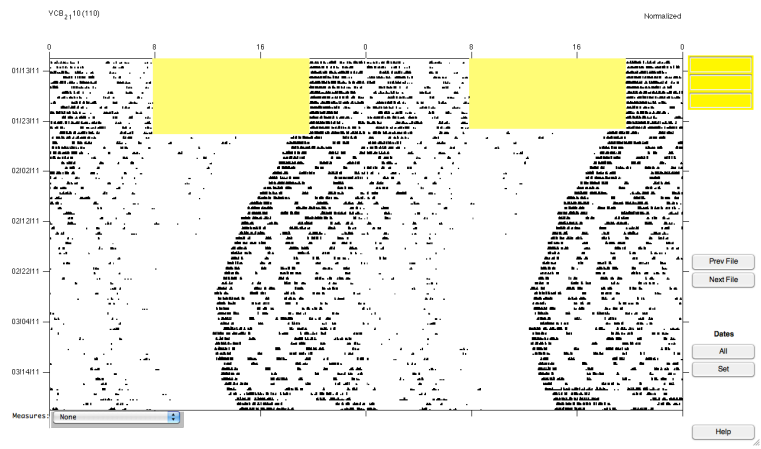
## V2-80 Vgat-Cre+ Clock(fl/fl) Npas2(m/m) male 5922



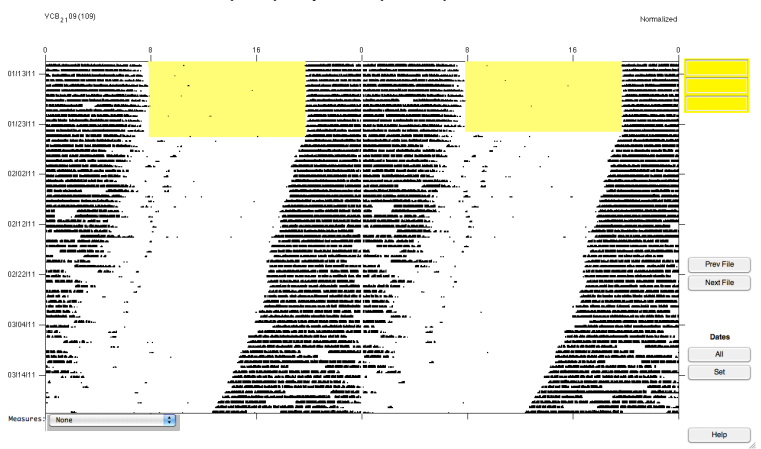
V2-82 Vgat-Cre+ Clock(fl/+) Npas2(m/+) male 5924



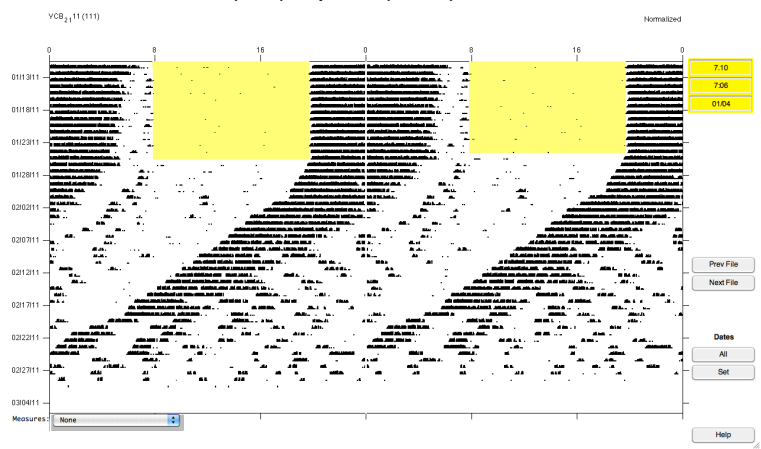
V2- 110 Vgat-Cre+ Clock(fl/+) Npas2(m/+) male 5893



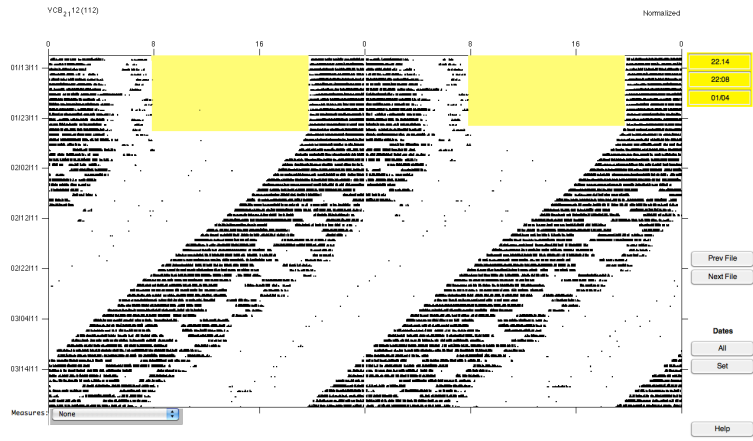
V2-109 No Cre Clock(fl/fl) Npas2(m/m) male 5933



V2-111 No Cre Clock(fl/+) Npas2(m/m) male 5891

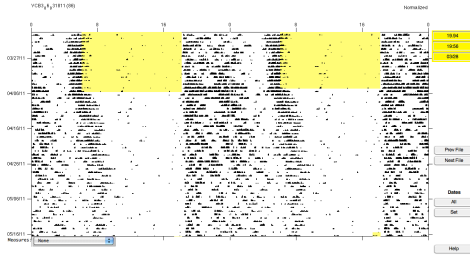


V2-112 Vgat-Cre+ Clock(fl/+) Npas2(m/m) male

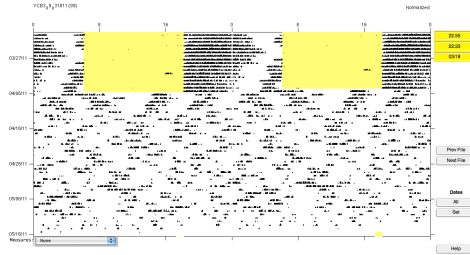


**Experiment V3**

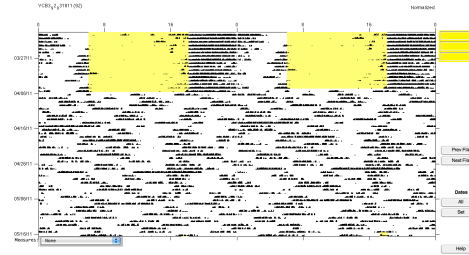
V3-86 NoCre C(fl/fl) N(m/m) m 5999



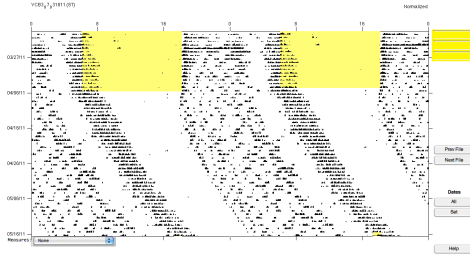
V3-89 Vgat-Cre+ C(fl/fl) N(m/m) m7028



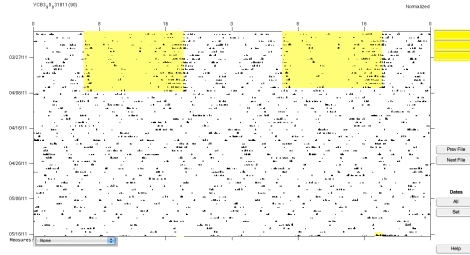
V3-92 Vgat-Cre+ C(fl/fl) N(m/m) f7031



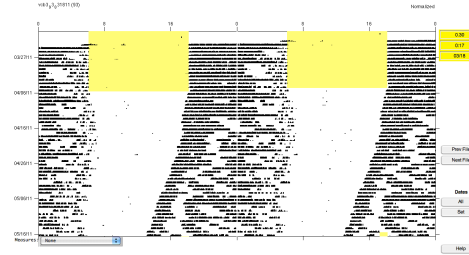
V3-87 NoCre C(fl/fl) N(m/m) m 7026



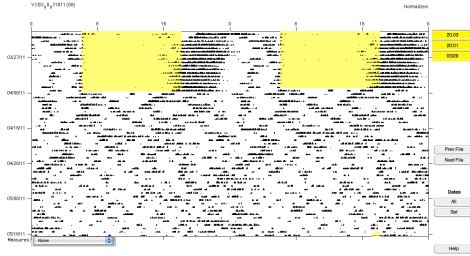
V3-90 Vgat-Cre+ C(fl/fl) N(m/m) m7029



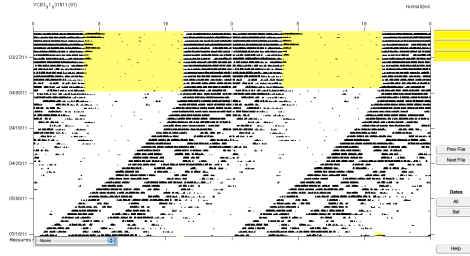
V3-93 NoCre C(fl/fl) N(m/m) f7199



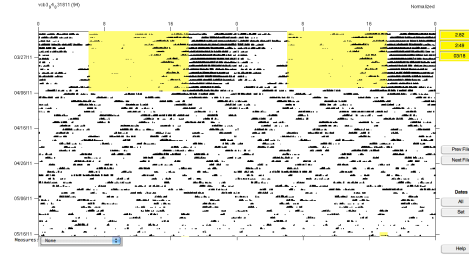
V3-88 Vgat-Cre+ C(fl/fl) N(m/m) m7027



V3-91 NoCre C(fl/fl) N(m/m) f7030

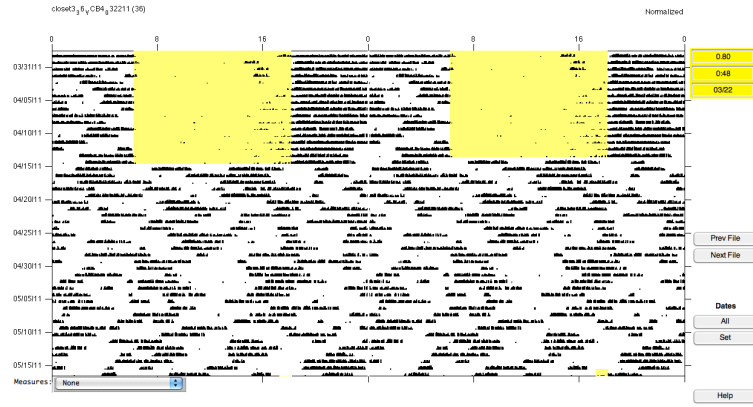


V3-94 Vgat-Cre+ C(fl/fl) N(m/m) m7198

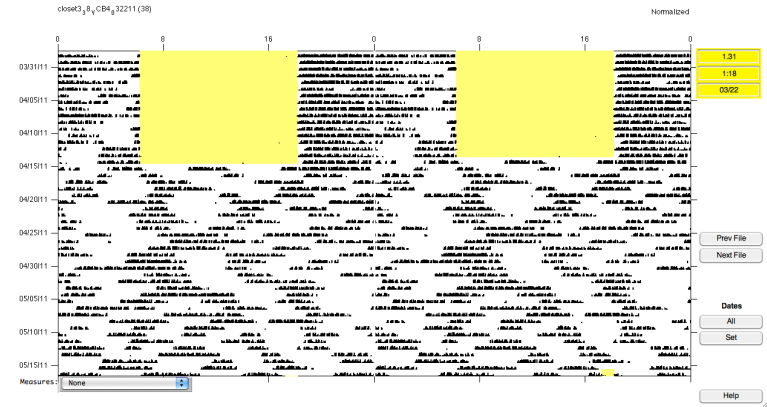


## Experiment V4

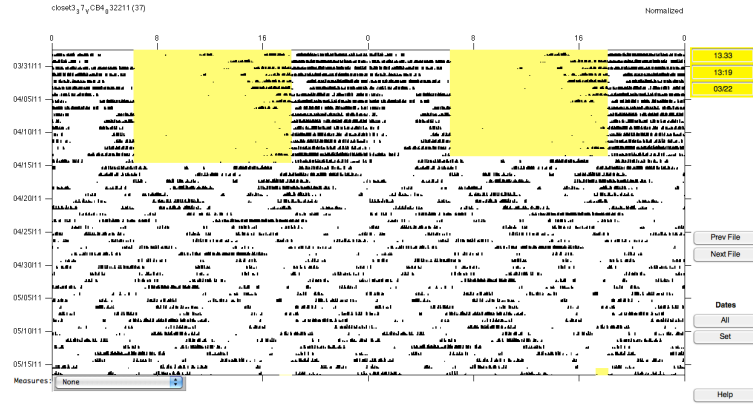
## V4-36 Vgat-Cre+ Clock(fl/fl) Npas2(m/m) male 3624



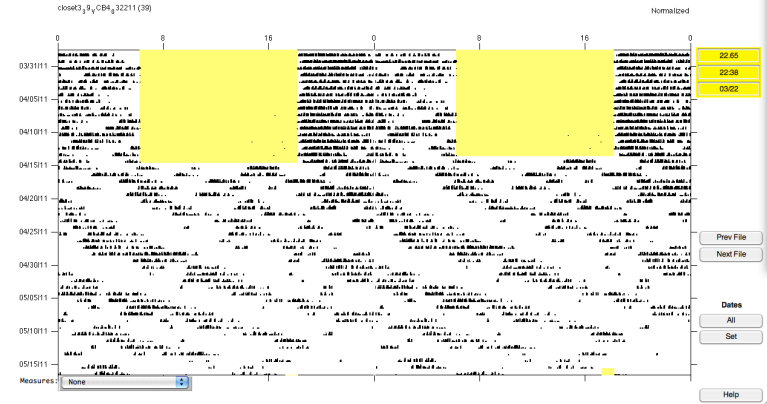
## V4-38 Vgat-Cre+ Clock(fl/fl) Npas2(m/m) female 7076



## V4-37 Vgat-Cre+ Clock(fl/fl) Npas2(m/m) female 7074

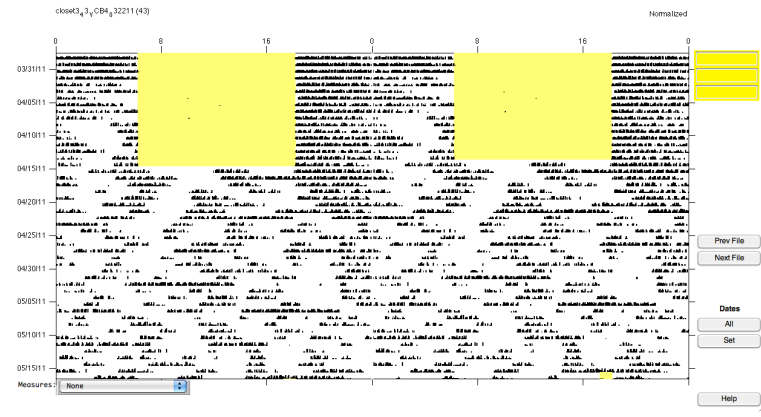


## V4-39 Vgat-Cre+ Clock(fl/fl) Npas2(m/m) female 7073

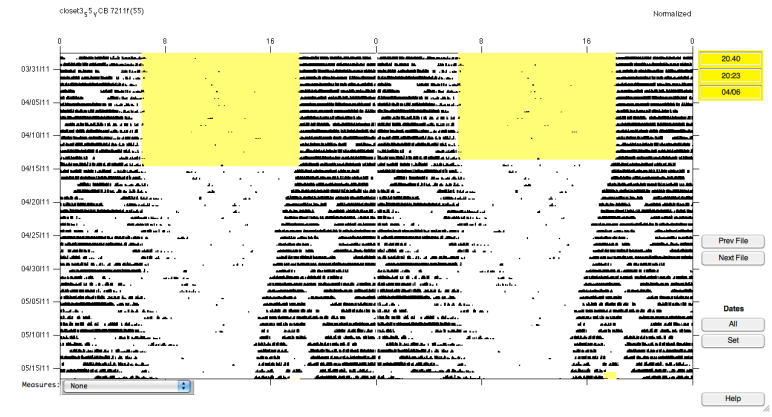




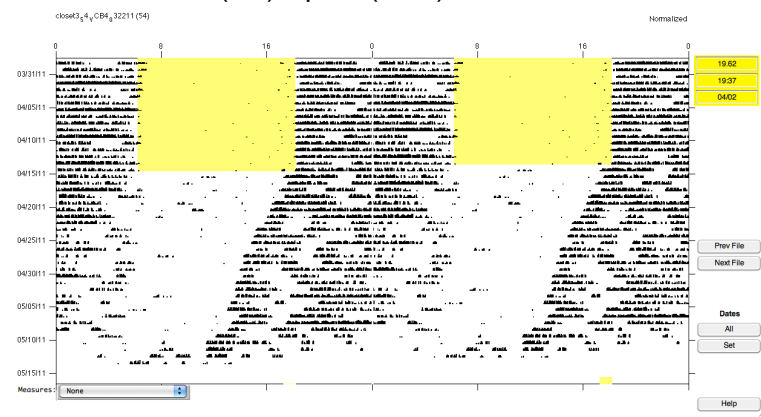
V4-43 Vgat-Cre+ Clock(fl/fl) Npas2(m/m) female 7075



V4-55 NoCre Clock(fl/fl) Npas2(m/m) female 7211

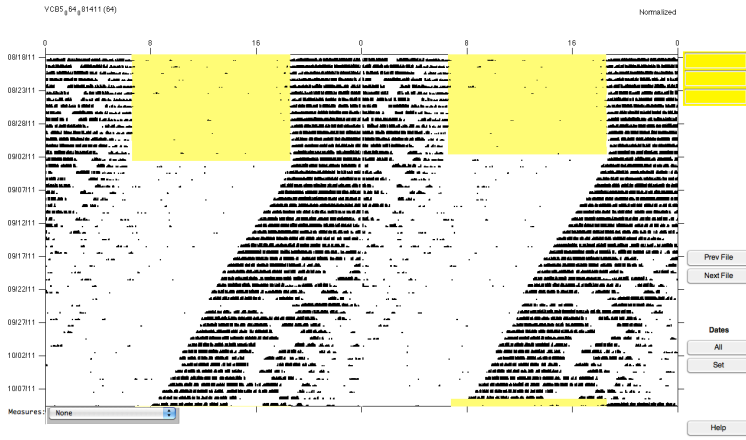


V4-54 NoCre Clock(fl/fl) Npas2(m/m) female 7212

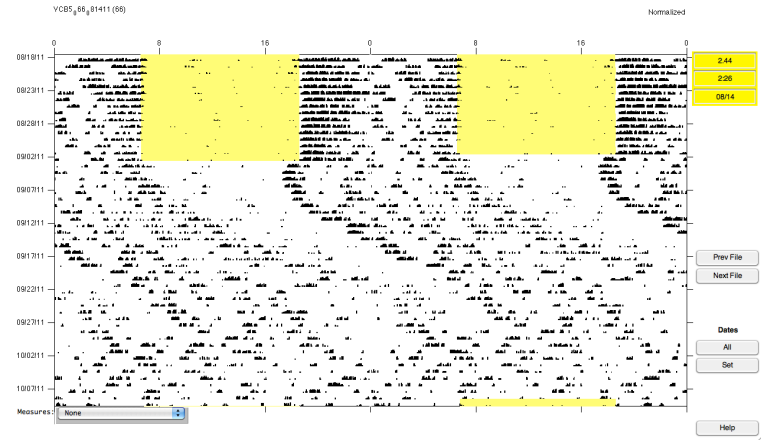


Experiment V5

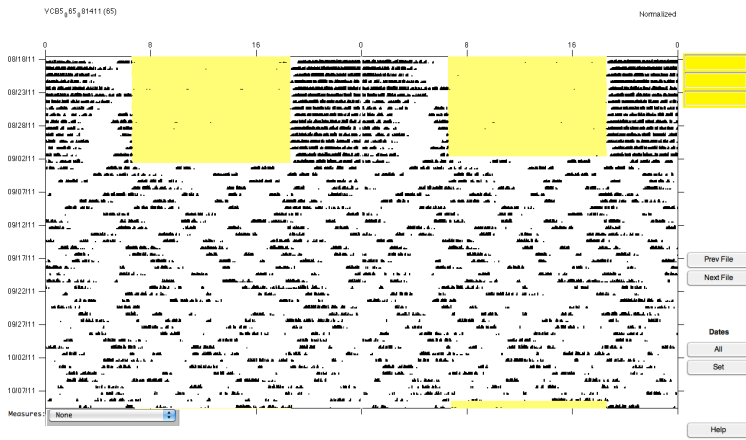
V5-064 NoCre Clock(fl/fl) Npas2(m/m) male 7639



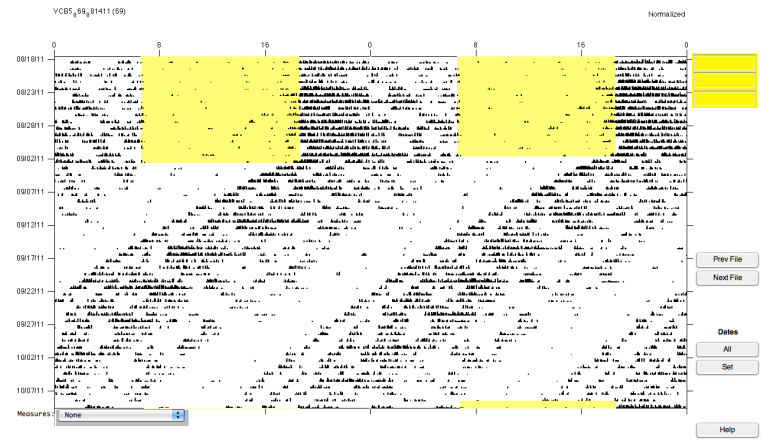
V5-066 VgatCre+ Clock(fl/fl) Npas2(+/+) male 7724 (odd)



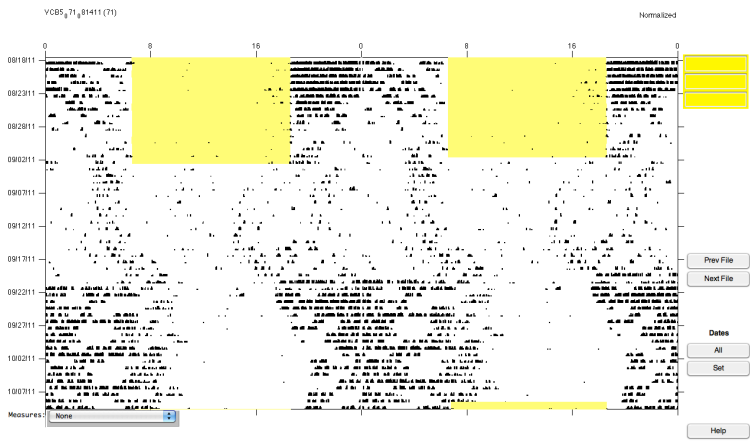
V5-065 VgatCre+ Clock(fl/fl) Npas2(m/m) male 7567



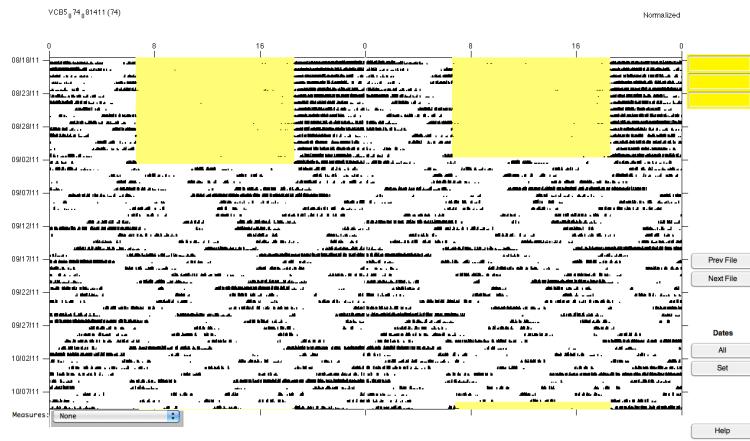
V5-069 VgatCre+ Clock(fl/fl) Npas2(+/+) female 7727a



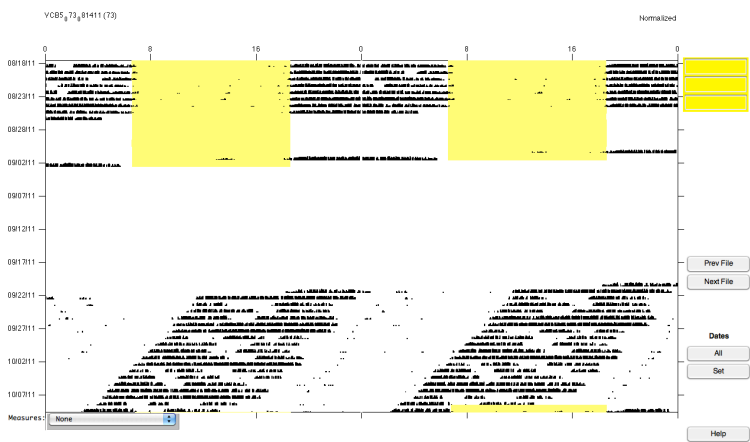
V5-071 VgatCre+ Clock(fl/fl) Npas2(+/+) female 7727b



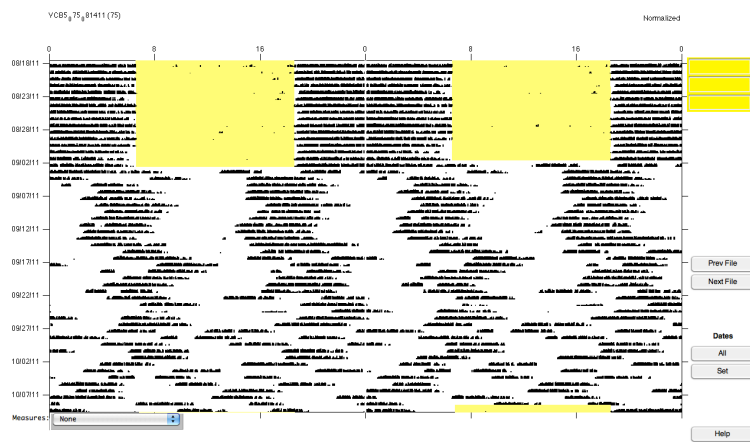
V5-074 VgatCre+ Clock(fl/fl) Npas2(m/m) female 7570a



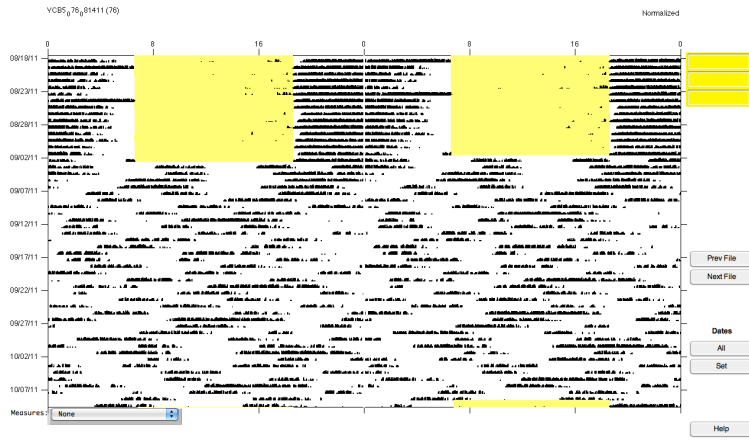
V5-073 NoCre Clock(fl/fl) Npas2(m/m) female 7569



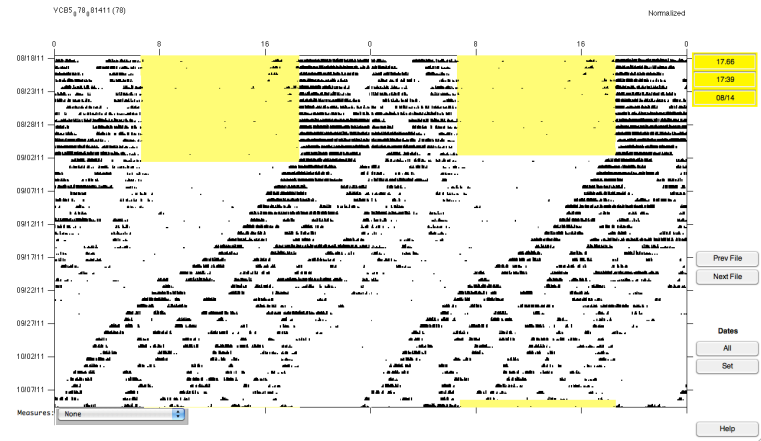
V5-075 VgatCre+ Clock(fl/fl) Npas2(m/m) female 7643



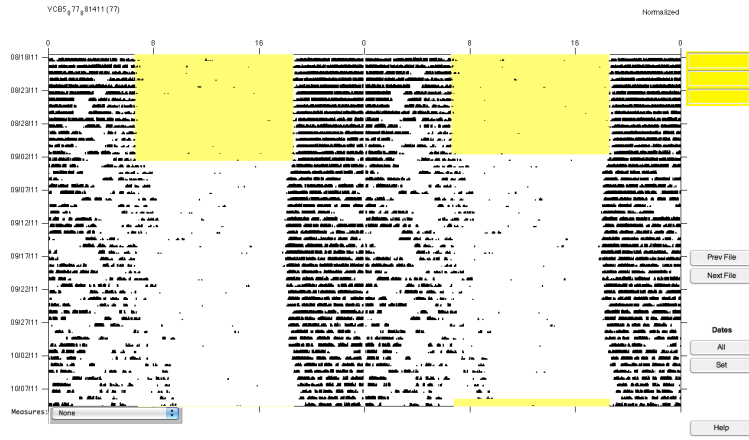
V5-076 VgatCre+ Clock(fl/fl) Npas2(m/m) female 7642



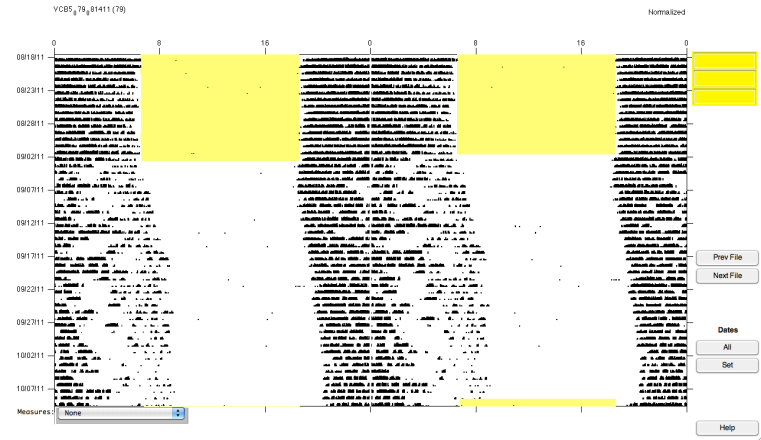
V5-078 NoCre Clock(fl/fl) Npas2(m/m) female 7640



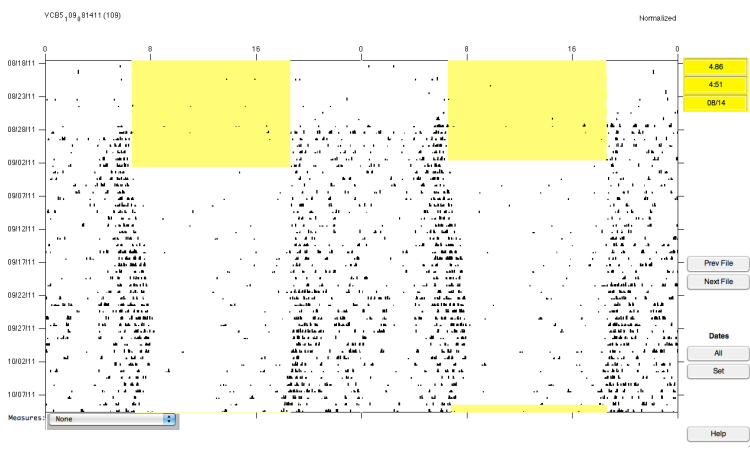
V5-077 NoCre Clock(fl/fl) Npas2(m/m) female 7641



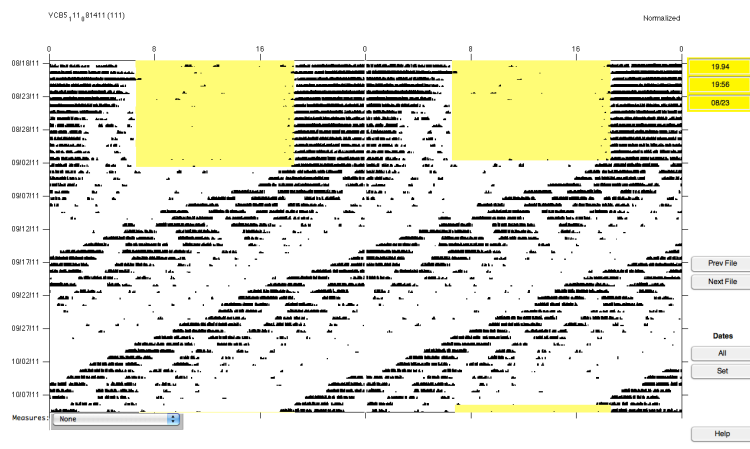
V5-079 NoCre Clock(fl/fl) Npas2(m/m) female 7570b



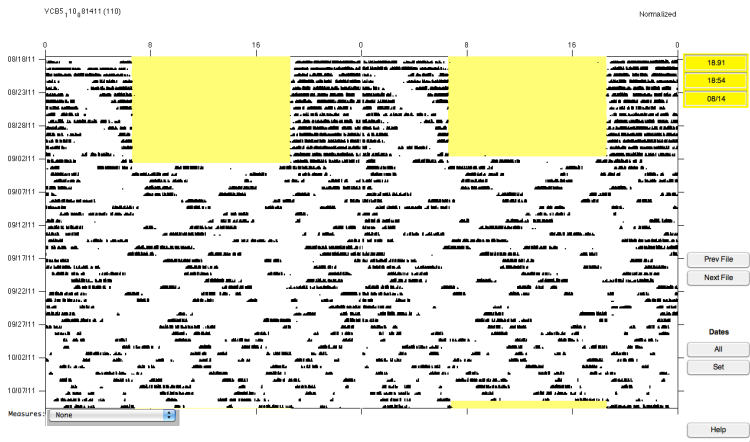
V5-109 NoCre Clock(fl/fl) Npas2(+/+) male 5588



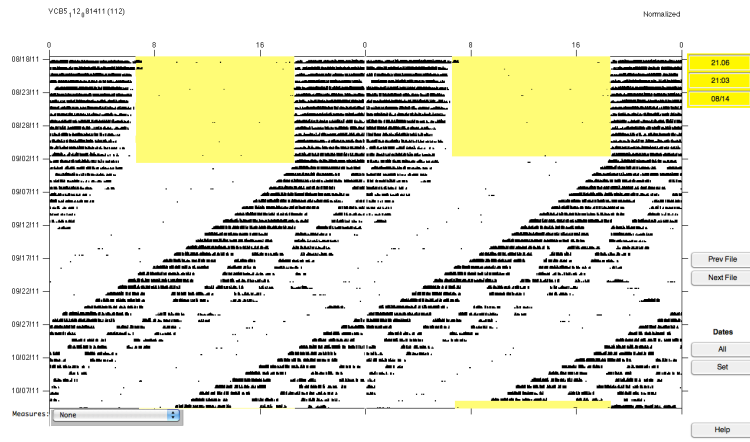
V5-111 NoCre Clock(fl/fl) Npas2(m/m) male 7565



V5-110 Vgat-Cre+ Clock(fl/fl) Npas2(m/m) male 7568

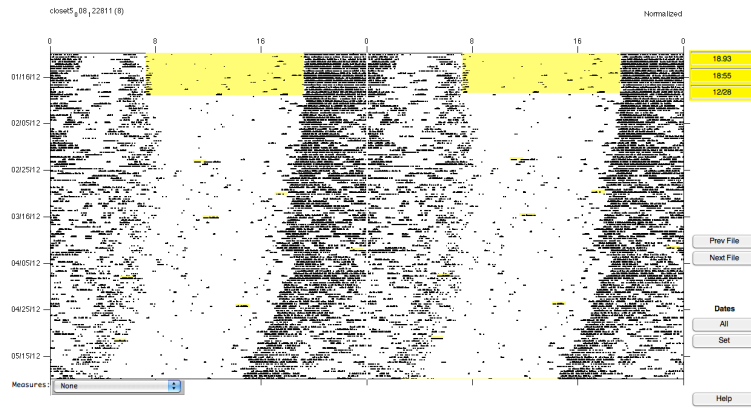


V5-112 NoCre Clock(fl/fl) Npas2(m/m) male 7566

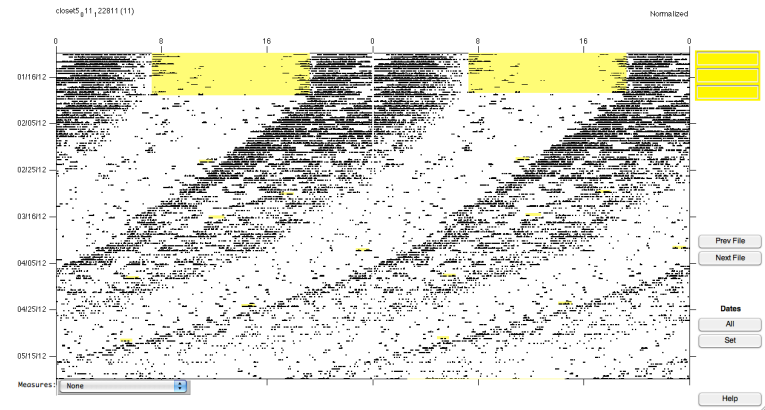


**Experiment V6.** Note 1-hr light pulses (yellow)

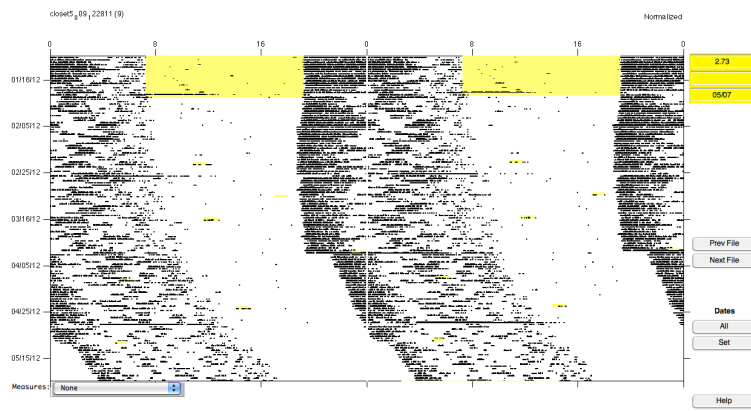
V6-008 Vgat-Cre+ male 7889 Clock(WT) Npas2(WT)



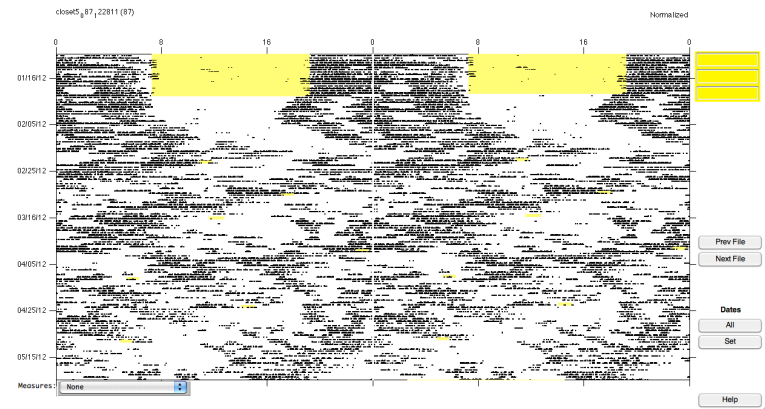
V6-011 Vgat-Cre+ male 8013 Clock(WT) Npas2(WT)



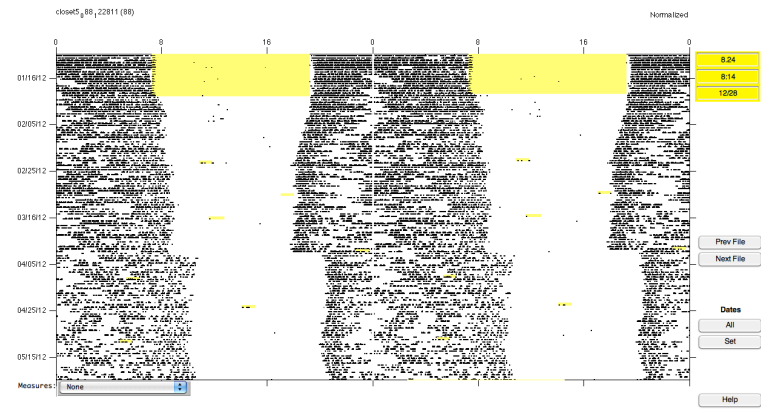
V6-009 Vgat-Cre+ male 7888 Clock(WT) Npas2(WT)



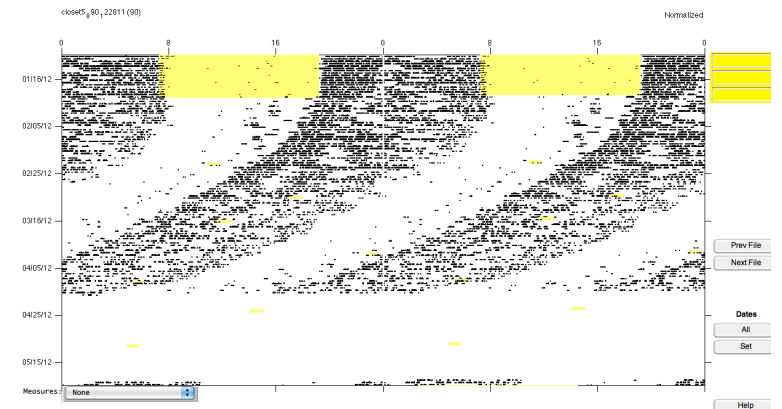
V6-087 Vgat-Cre+ Clock(fl/fl) Npas2(m/+) female 7451



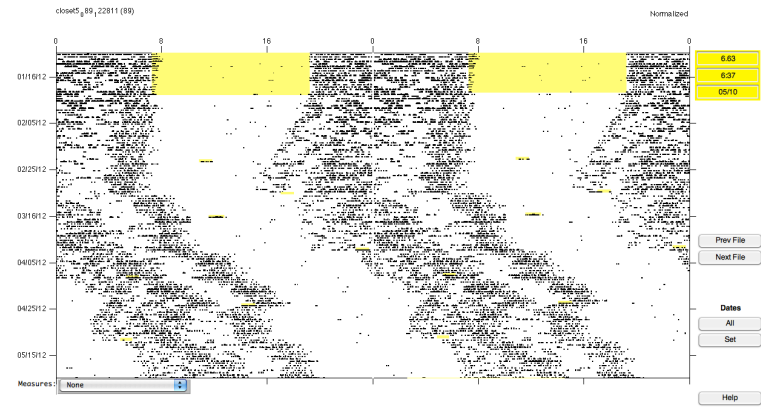
V6-088 NoCre Clock(fl/fl) Npas2(m/+) female 7909



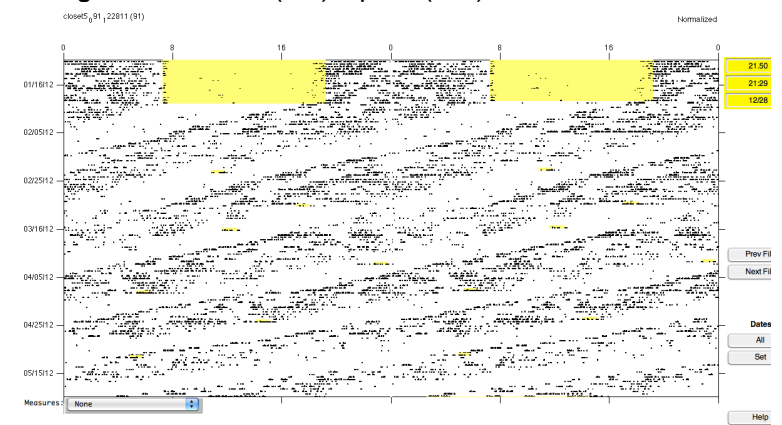
V6-090 NoCre Clock(fl/fl) Npas2(+/+) female 7907



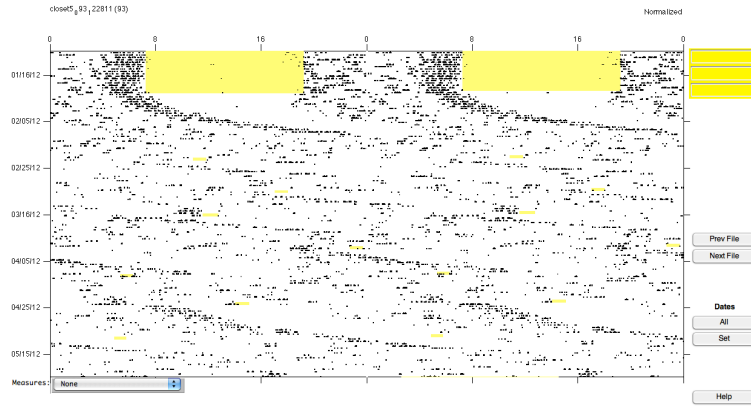
V6-089 NoCre Clock(fl/fl) Npas2(+/+) female 7908



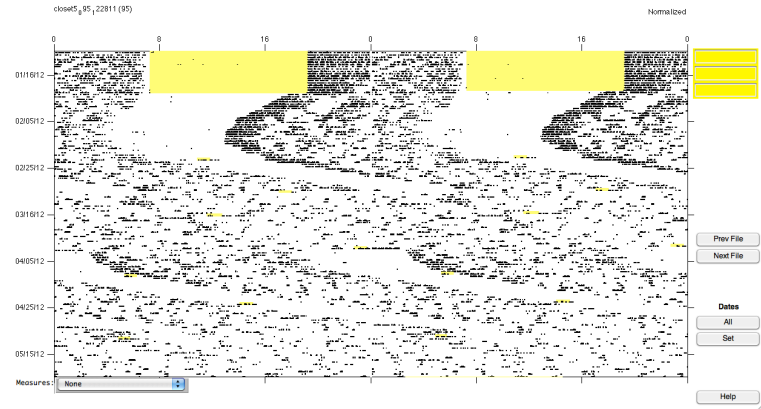
V6-091 Vgat-Cre+ Clock(fl/fl) Npas2(+/+) female 7452



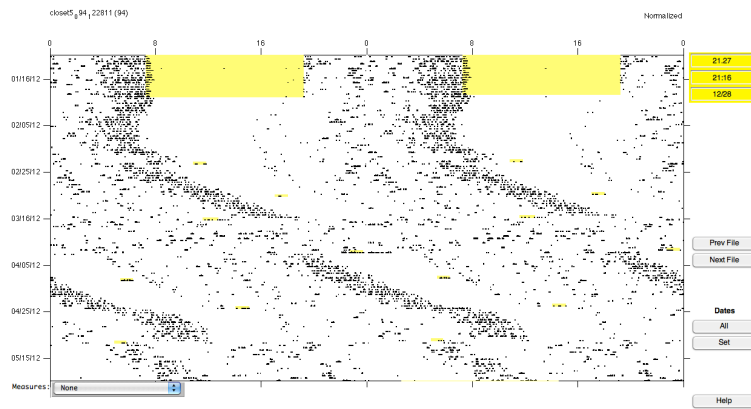
V6-093 Vgat-Cre+ Clock(fl/fl) Npas2(m/+) female 7905



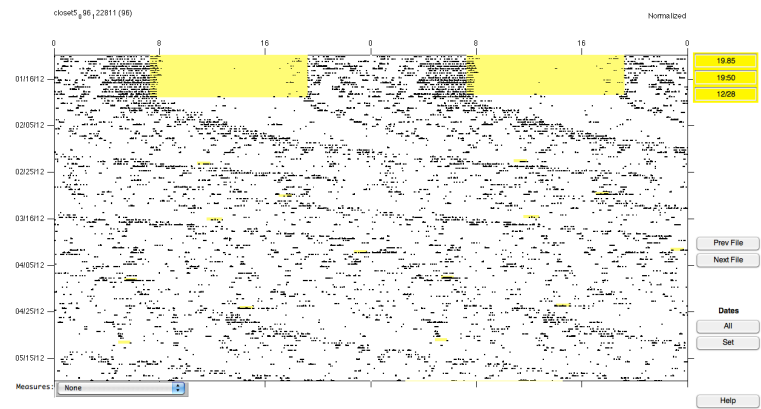
V6-095 Vgat-Cre+ Clock(fl/fl) Npas2(+/+) male 7833



V6-094 Vgat-Cre+ Clock(fl/fl) Npas2(+/+) male 7606



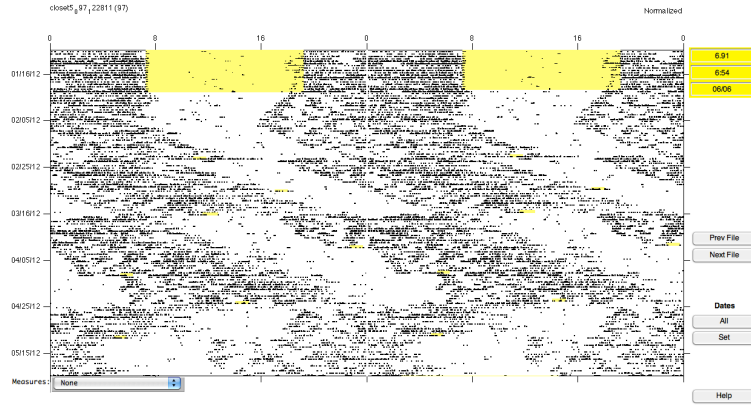
V6-096 Vgat-Cre+ Clock(fl/fl) Npas2(m/+) male 7834



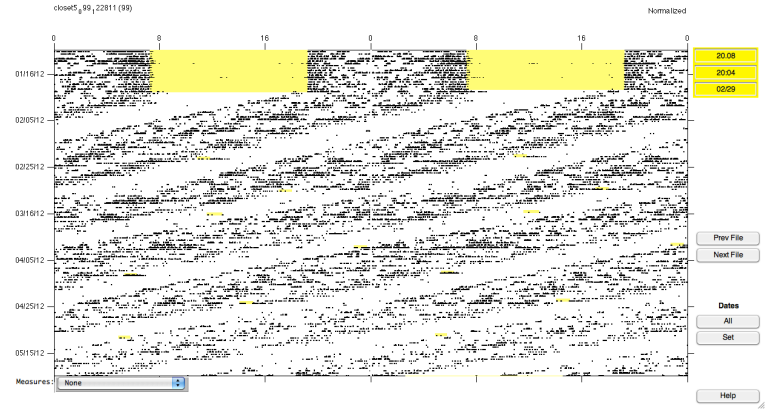
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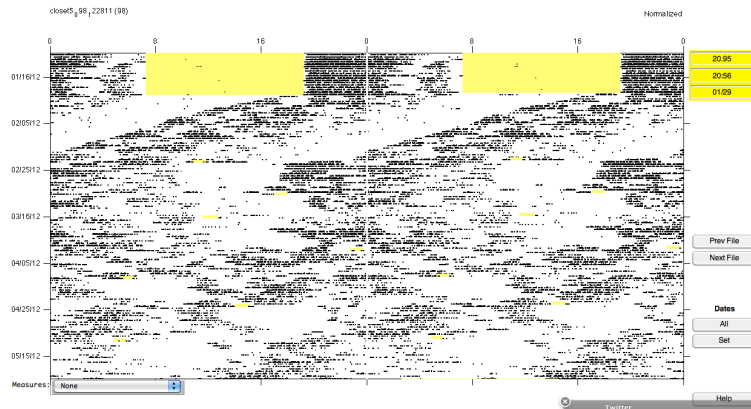
V6-097 Vgat-Cre+ Clock(fl/fl) Npas2(+/+) female 7837



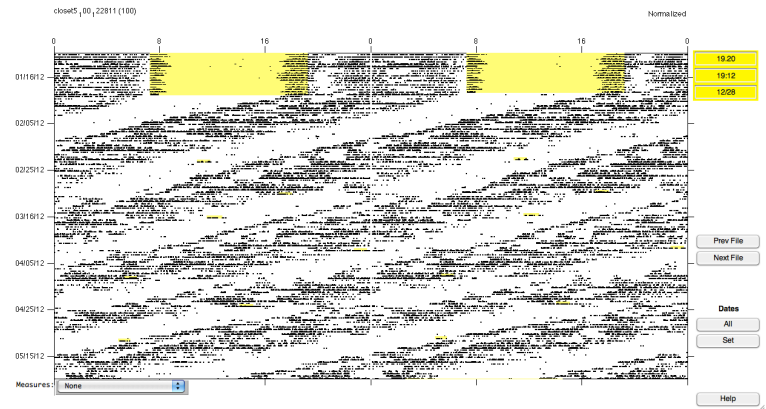
V6-099 Vgat-Cre+ Clock(fl/fl) Npas2(+/+) female 7839



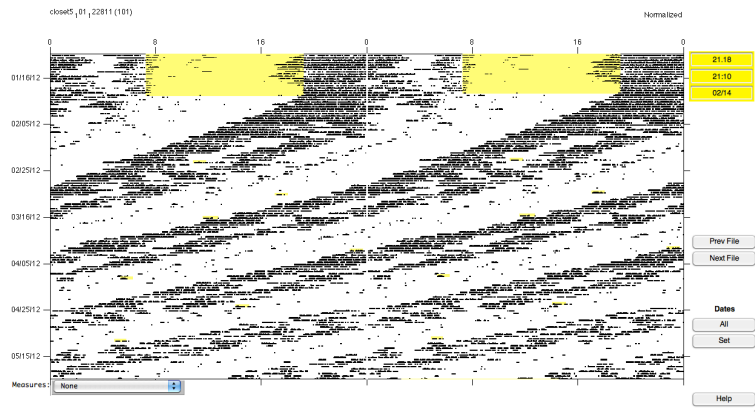
V6-098 Vgat-Cre+ Clock(fl/fl) Npas2(+/+) female 7838



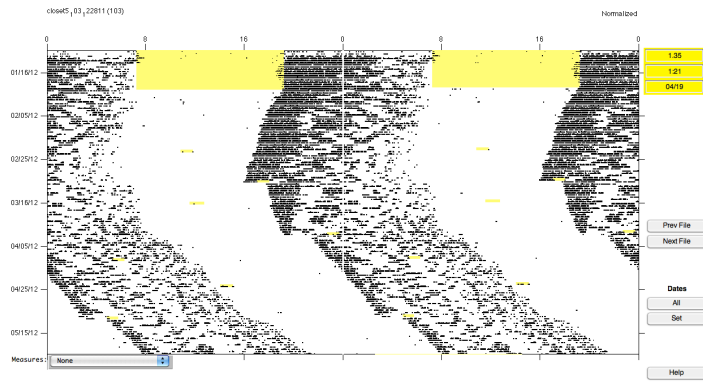
V6-100 Vgat-Cre+ Clock(fl/fl) Npas2(+/+) female 7840



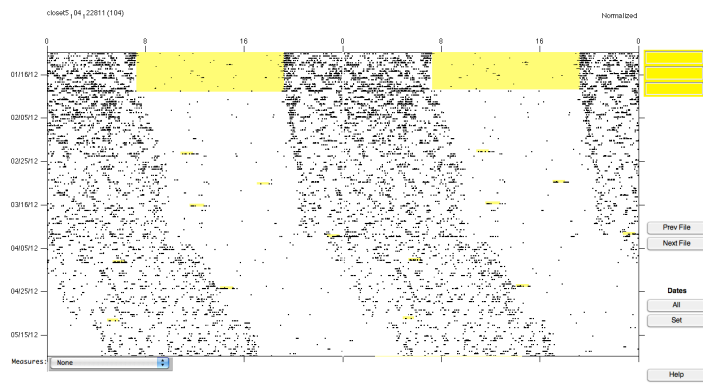
V6-101 Vgat-Cre+ male 8061 {Clock(WT) Npas2(WT)}



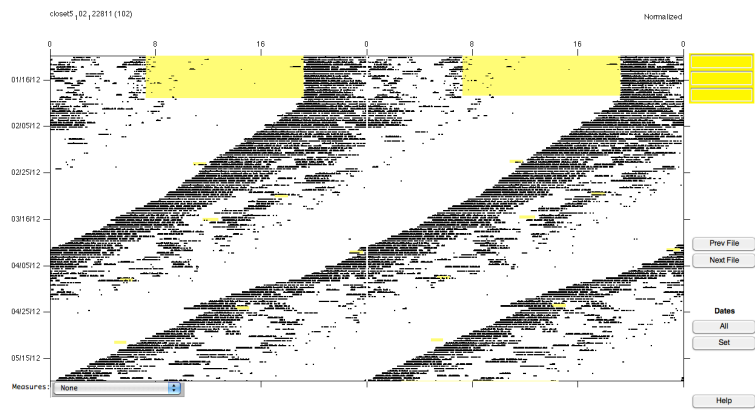
V6-103 Vgat-Cre+ male 8063 {Clock(WT) Npas2(WT)}



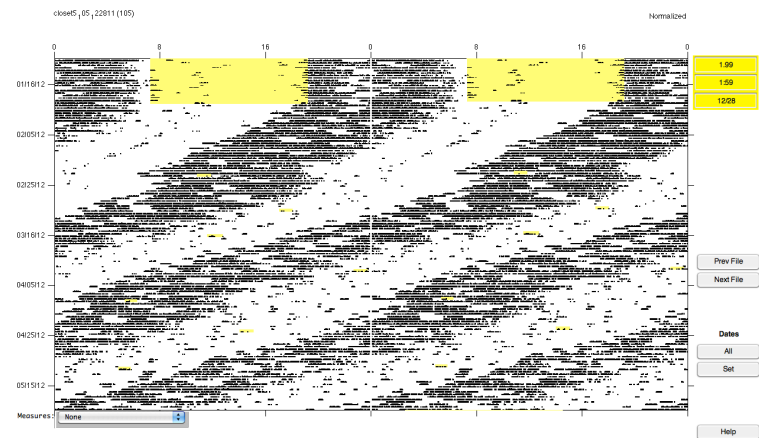
V6-104 Vgat-Cre+ male 8012 {Clock(WT) Npas2(WT)}



V6-102 Vgat-Cre+ male 8062 {Clock(WT) Npas2(WT)}

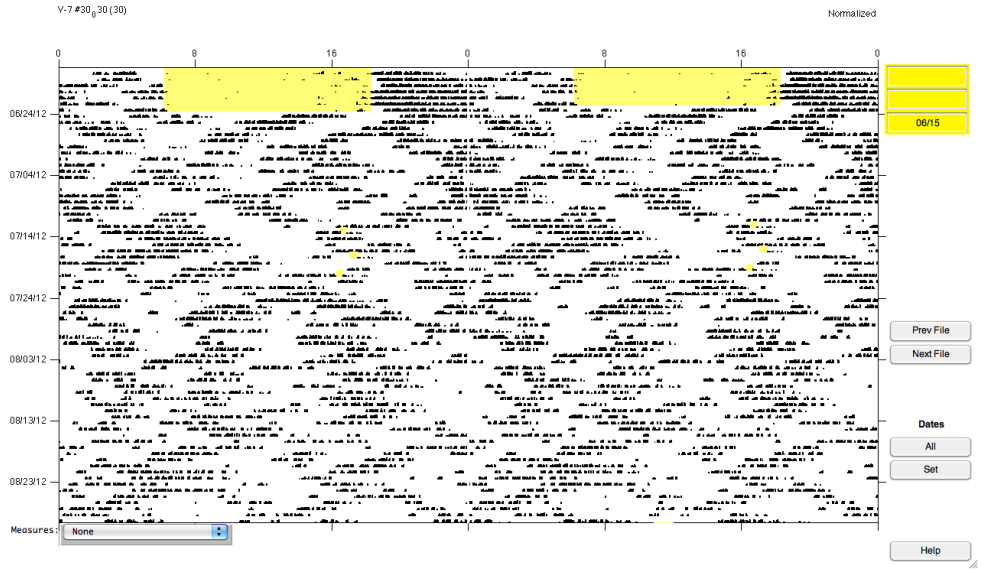


V6-105 Vgat-Cre+ female 8064 {Clock(WT) Npas2(WT)}

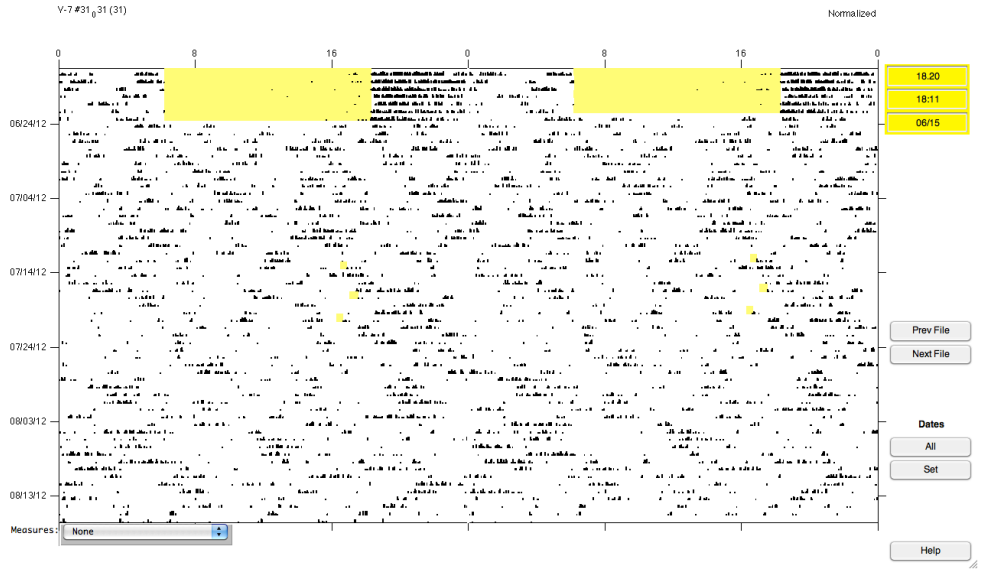


### Experiment V7

### V7-30 Vgat-Cre+ Clock(fl/fl) Npas2 (m/m) female 8157

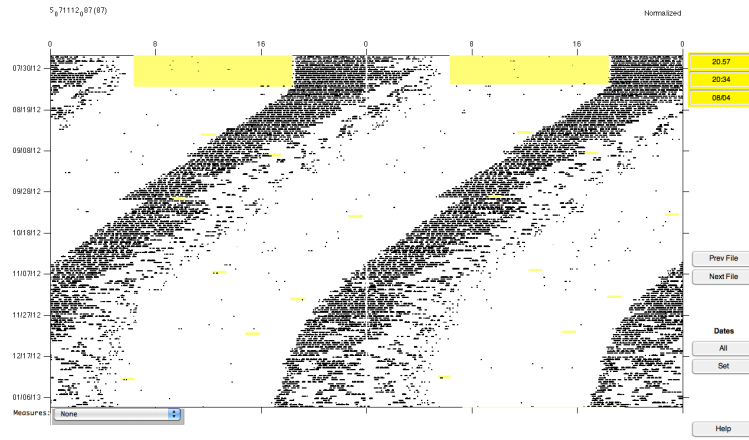


### V7-31 Vgat-Cre+ Clock(fl/fl) Npas2 (m/m) female 8158

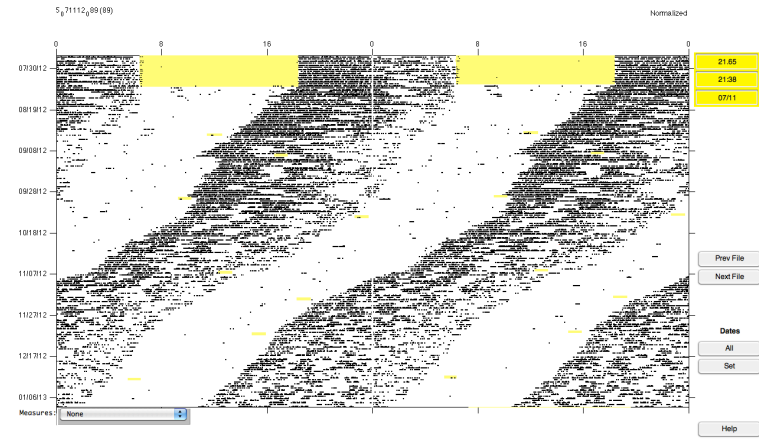


**Experiment V8.** Note 1-hr Light pulses

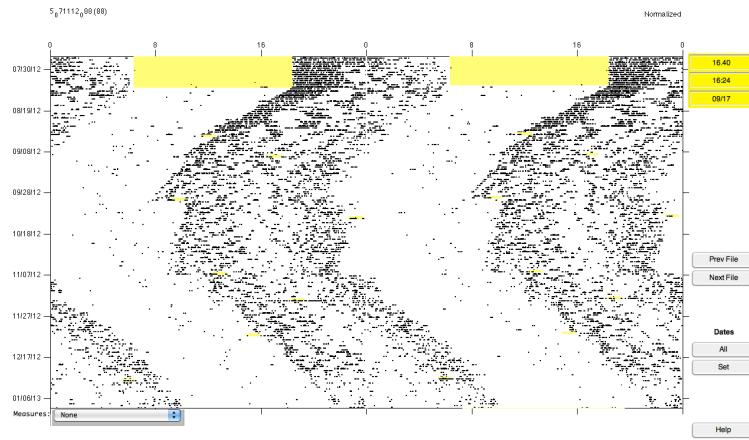
V8-087 Vgat-Cre+ male 8239 {Clock(+/+); Npas2 (+/+)}



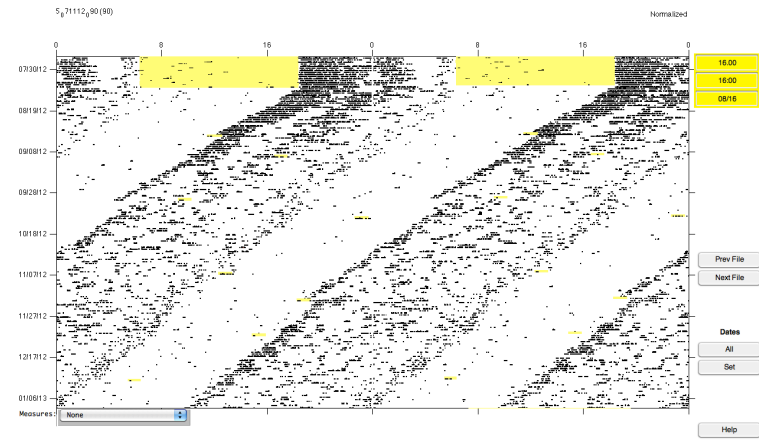
V8-089 Vgat-Cre+ female 8216 {Clock(+/+); Npas2 (+/+)}



V8-088 Vgat-Cre+ male 8242 {Clock(+/+); Npas2 (+/+)}

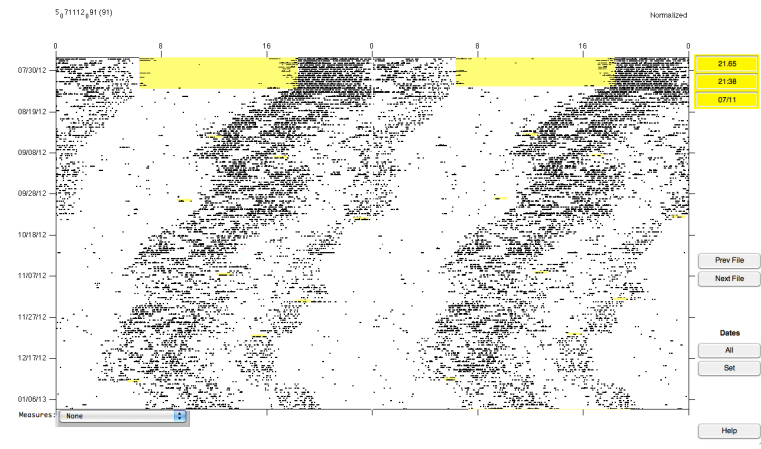


V8-090 Vgat-Cre+ male 8203 {Clock(+/+); Npas2 (+/+)}

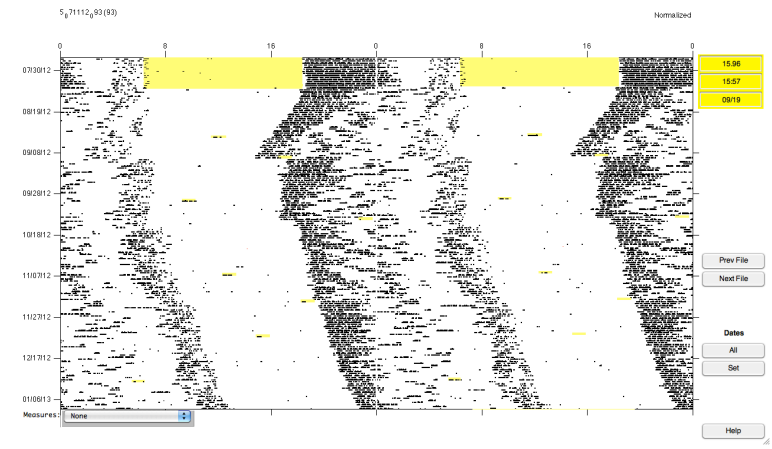


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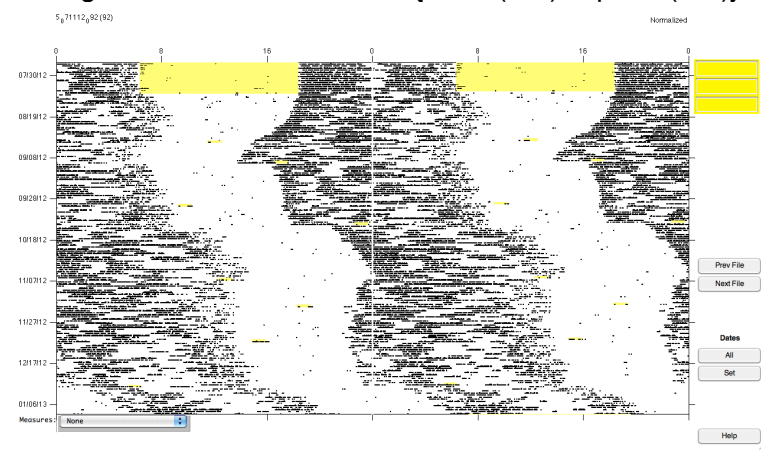
V8-091 Vgat-Cre+ female 8245 {Clock(+/+); Npas2 (+/+)}



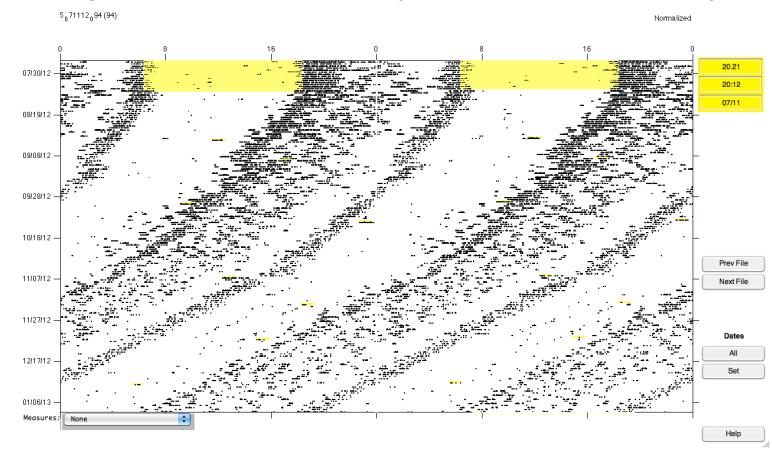
V8-093 Vgat-Cre+ male 8557 {Clock(+/+); Npas2 (+/+)}

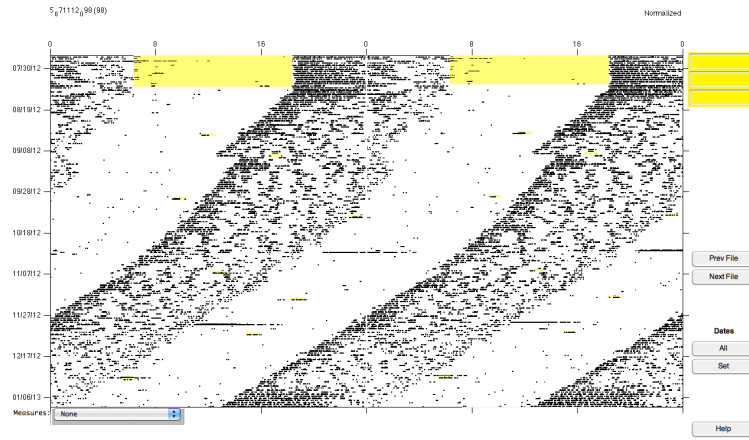


V8-092 Vgat-Cre+ female 8370 {Clock(+/+); Npas2 (+/+)}

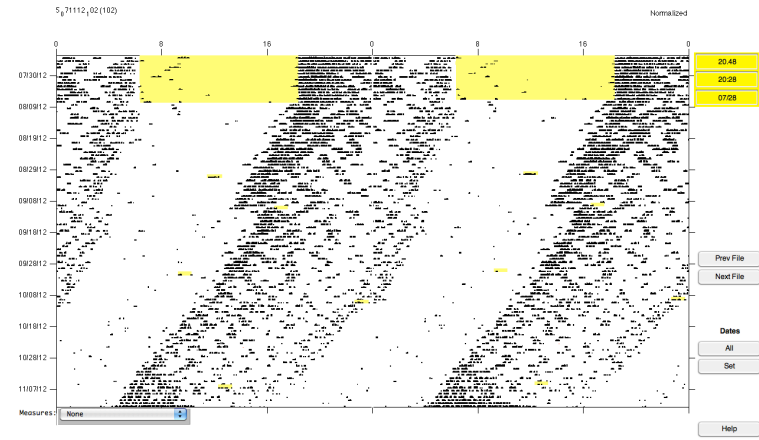


V8-094 Vgat-Cre+ male 8202 {Clock(+/+); Npas2 (+/+)}



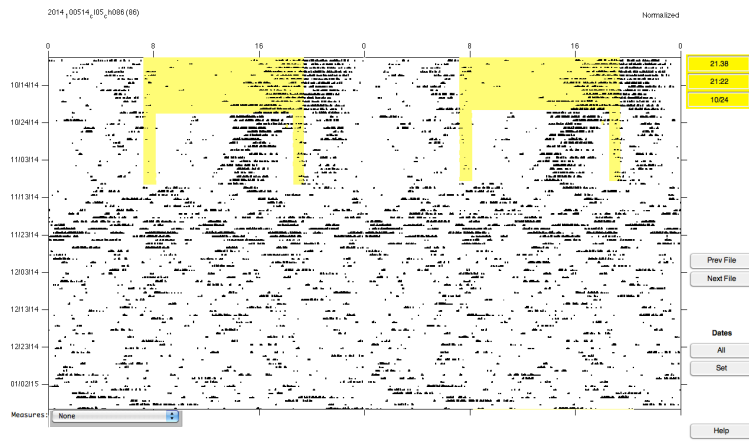
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V8-102 Vgat-Cre+ male 8194 {Clock(+/+); Npas2 (+/+)}

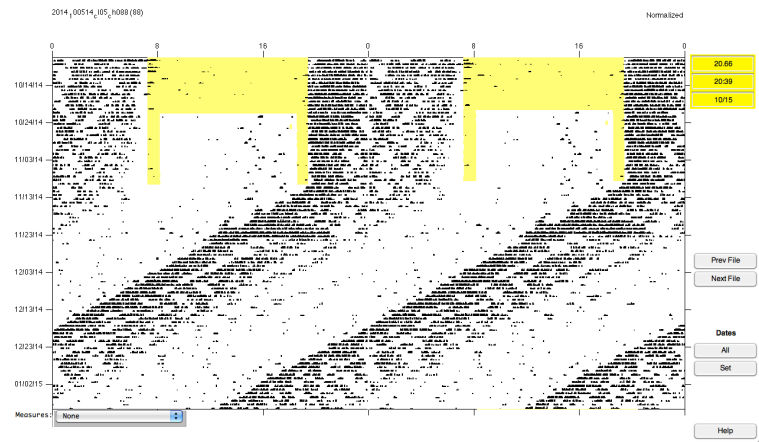


**Experiment V9.** Animals from LD to 1L:10D:1L:12D then DD

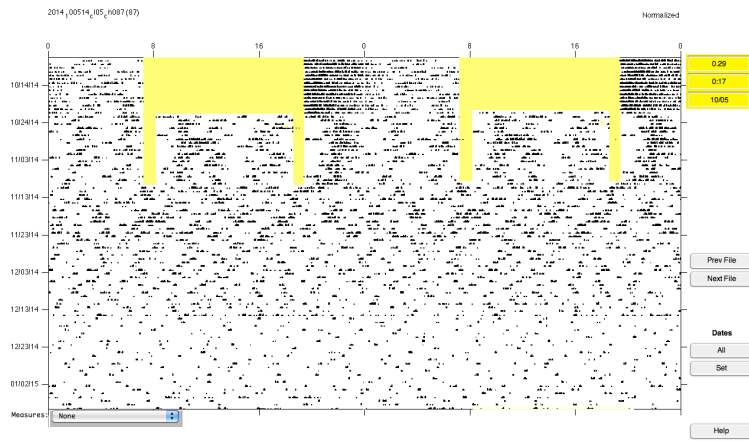
V9-086 Vgat-Cre+ Clock(fl/fl) Npas2(m/m) male 3178



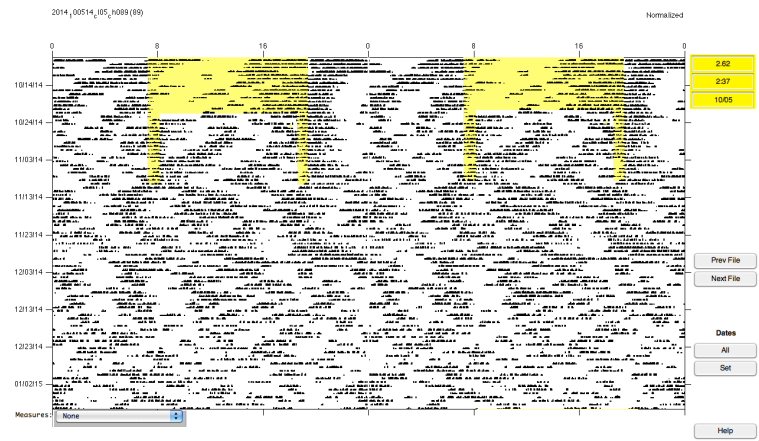
V9-088 NoCre Clock(fl/fl) Npas2(m/m) male 3180



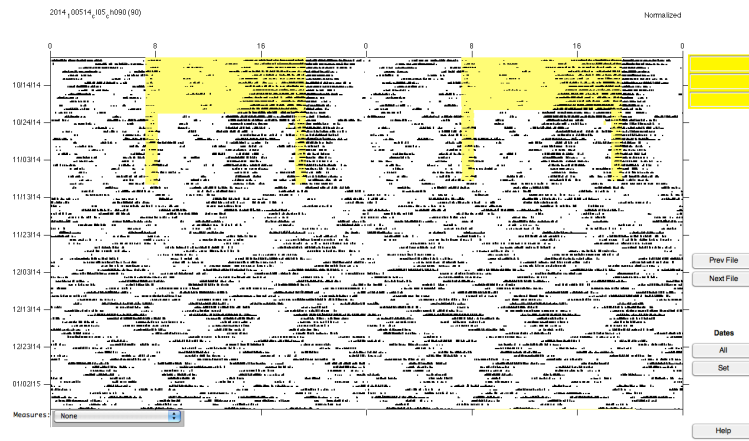
V9-087 Vgat-Cre+ Clock(fl/fl) Npas2(m/m) male 3179



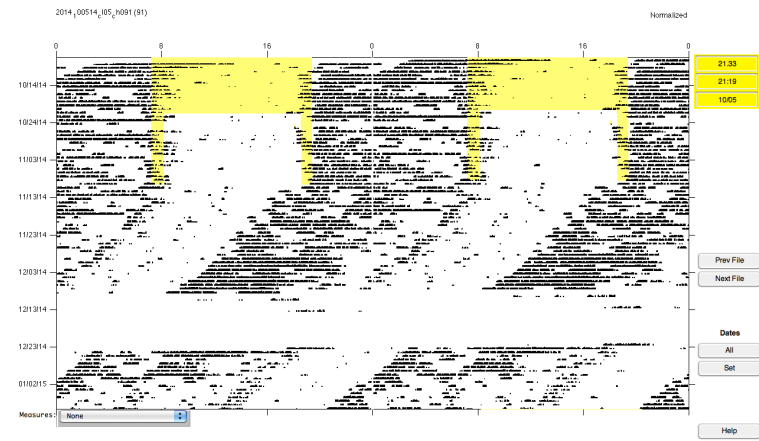
V9-089 Vgat-Cre+ Clock(fl/fl) Npas2(m/m) male 3213



## V9-090 Vgat-Cre+ Clock(fl/fl) Npas2(m/m) female 2245



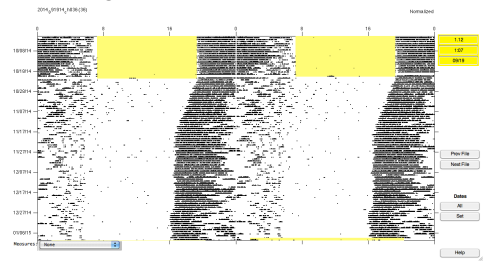
## V9-091 NoCre Clock(fl/fl) Npas2(m/m) female 3217



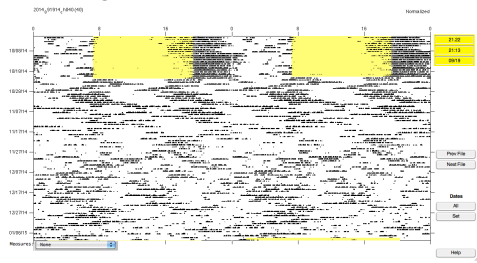


**Experiment V10**

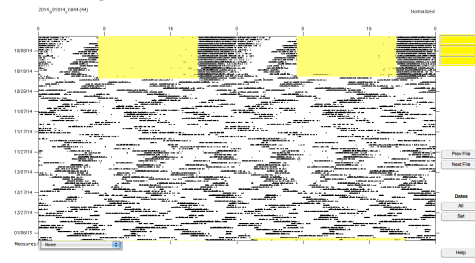
V10-36 Vgat-Cre+ Bmal1(+/-) m 2650



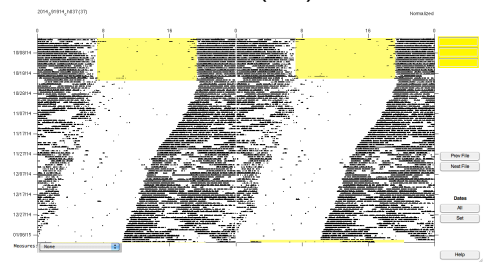
V10-40 Vgat-Cre+ Bmal1(fl/fl) m 3188



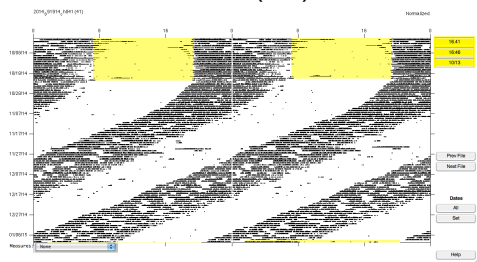
V10-44 Vgat-Cre+ Bmal1(fl/fl) m 3129



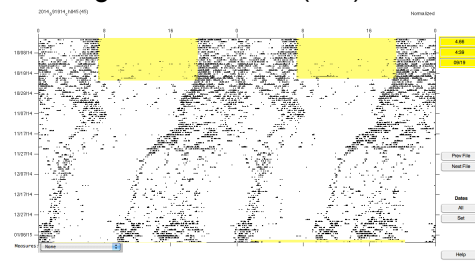
V10-37 No Cre Bmal1(fl/fl) m 2649



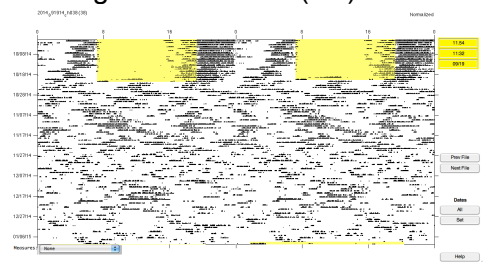
V10-41 No Cre Bmal1(fl/fl) m 2781



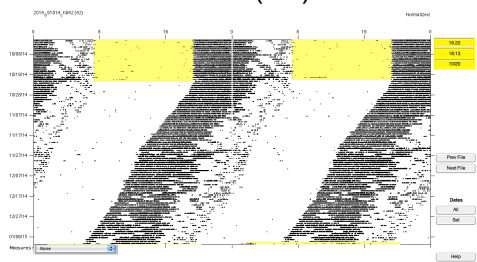
V10-45 Vgat-Cre+ Bmal1(+/-) m 2814



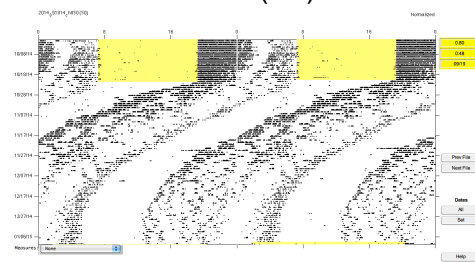
V10-38 Vgat-Cre+ Bmal1(fl/fl) m 3191



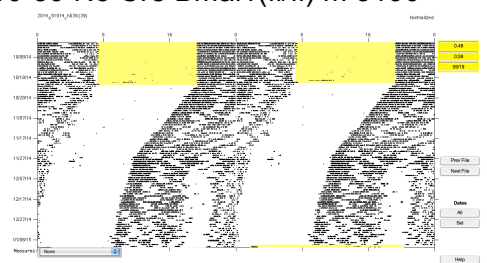
V10-42 No Cre Bmal1(fl/fl) m 2783



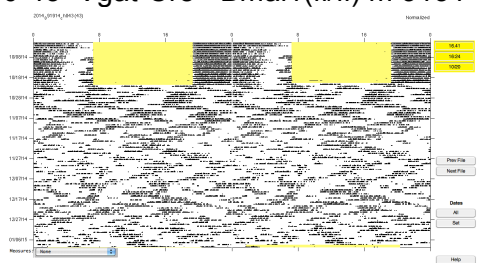
V10-50 No Cre Bmal1(fl/fl) m 3476



V10-39 No Cre Bmal1(fl/fl) m 3190



V10-43 Vgat-Cre+ Bmal1(fl/fl) m 3131

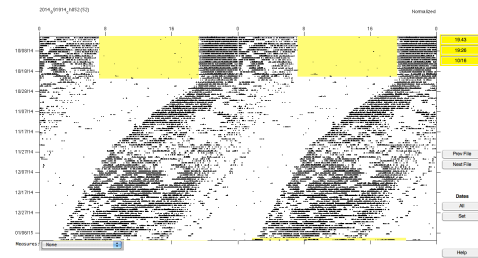


V10-51 Vgat-Cre+ Bmal1(fl/fl) m 3478

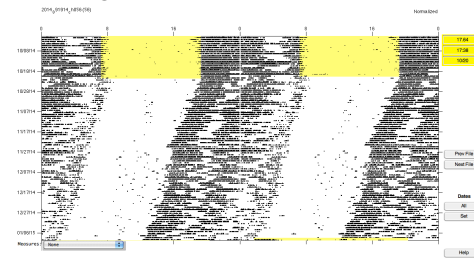


## Experiment V10

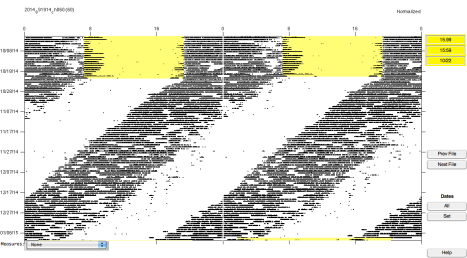
V10-52 No Cre Bmal1(fl/fl) m 3472



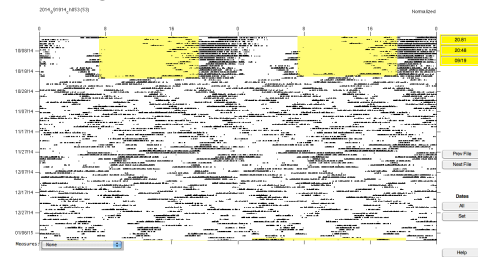
V10-56 Vgat-Cre+ Bmal1(+/+) f 2659



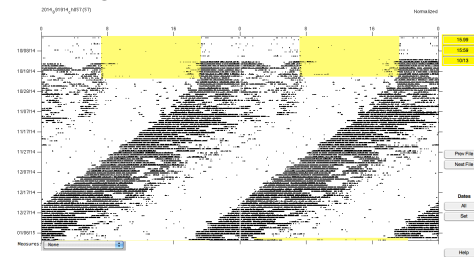
V10-60 No Cre Bmal1(fl/fl) f 2792



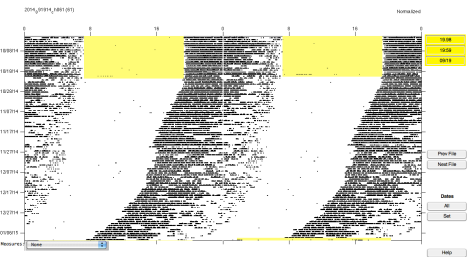
V10-53 Vgat-Cre+ Bmal1(fl/fl) m 3471



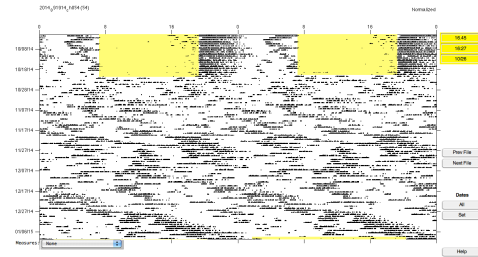
V10-57 Vgat-Cre+ Bmal1(+/+) f 2652



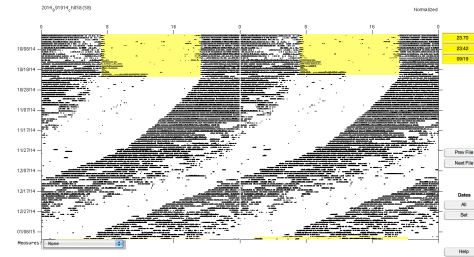
V10-61 No Cre Bmal1(fl/fl) f 2647



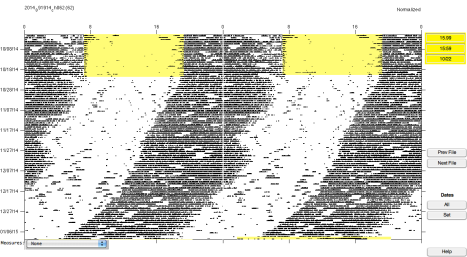
V10-54 Vgat-Cre+ Bmal1(fl/fl) m 3475



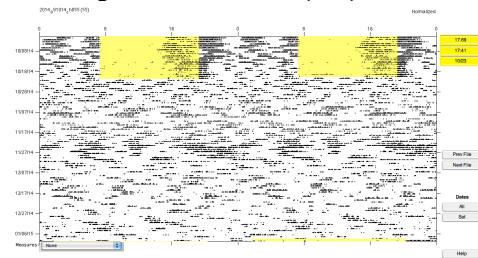
V10-58 Vgat-Cre+ Bmal1(+/+) f 2820



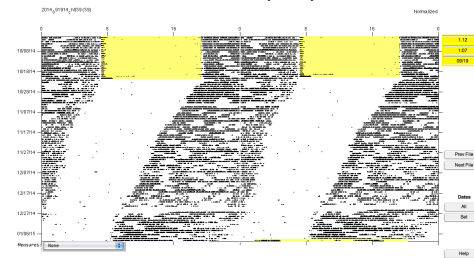
V10-62 No Cre Bmal1(fl/fl) f 3194



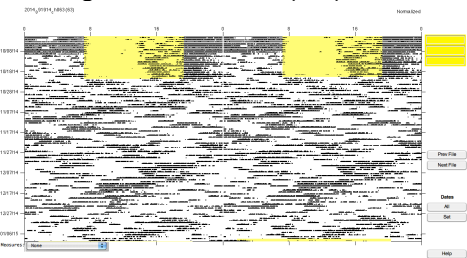
V10-55 Vgat-Cre+ Bmal1(fl/fl) m 3477



V10-59 No Cre Bmal1(fl/fl) f 3133

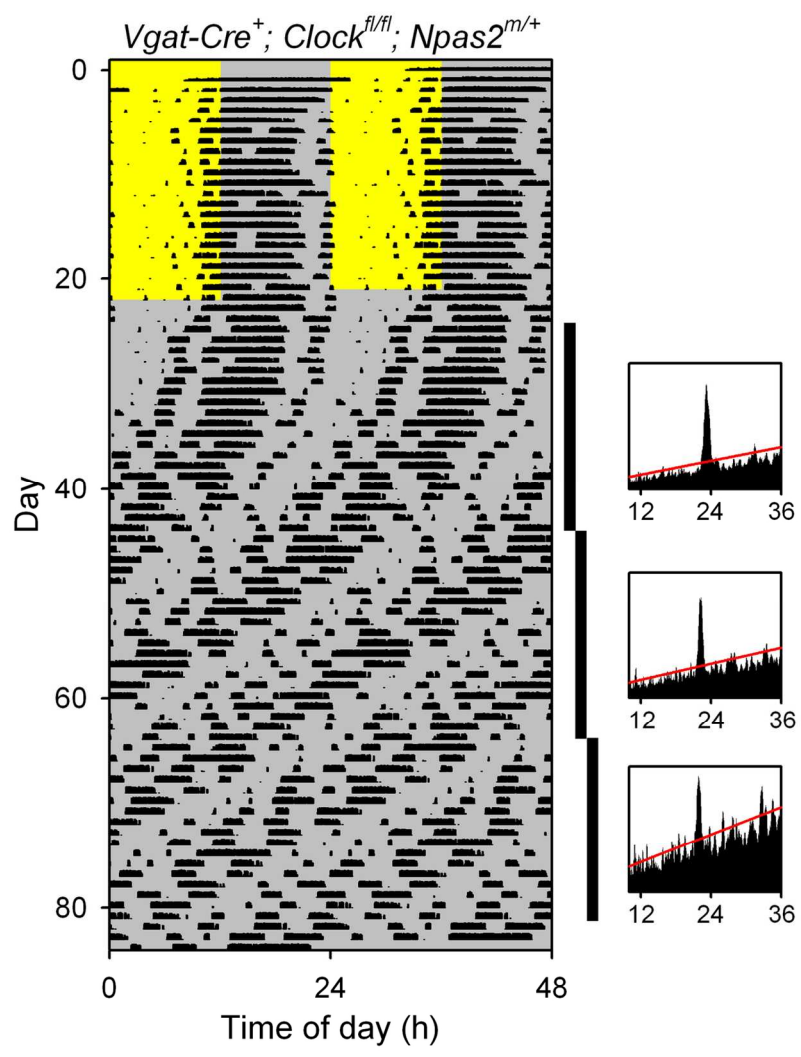


V10-63 Vgat-Cre+ Bmal1(fl/fl) f 3474



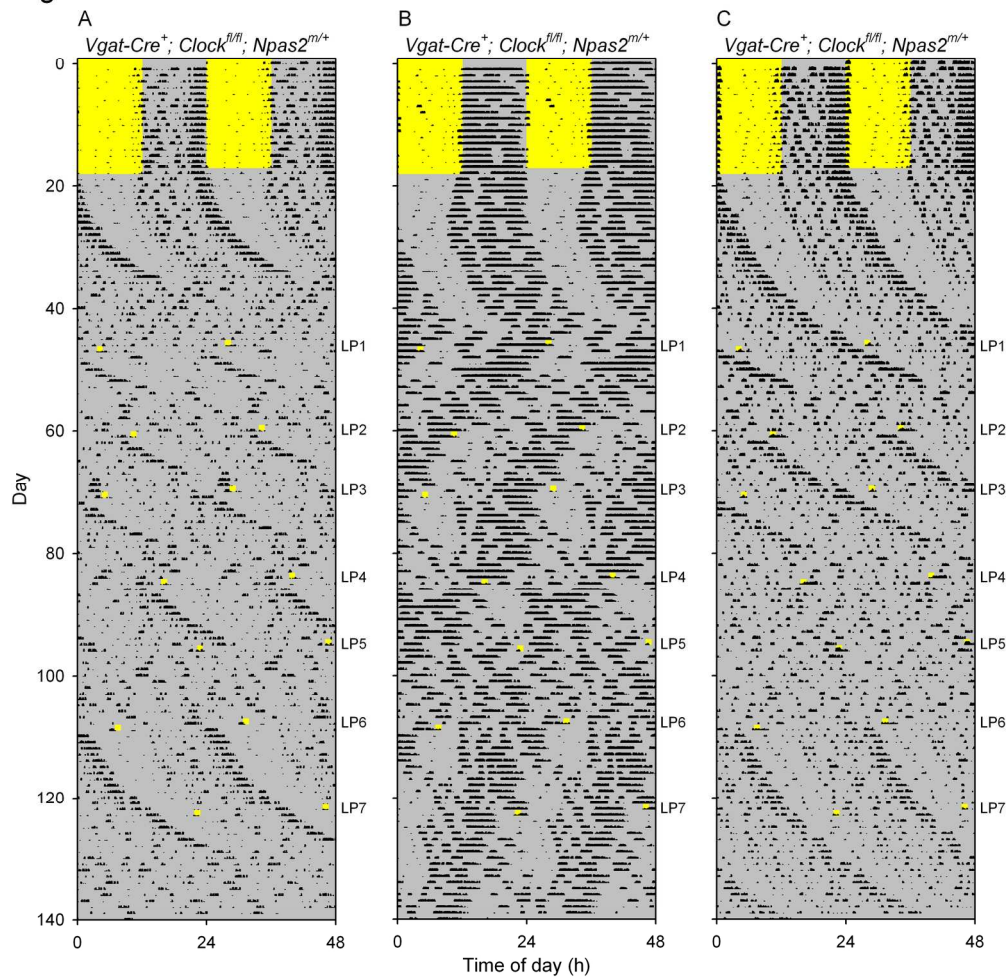
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Figure S2



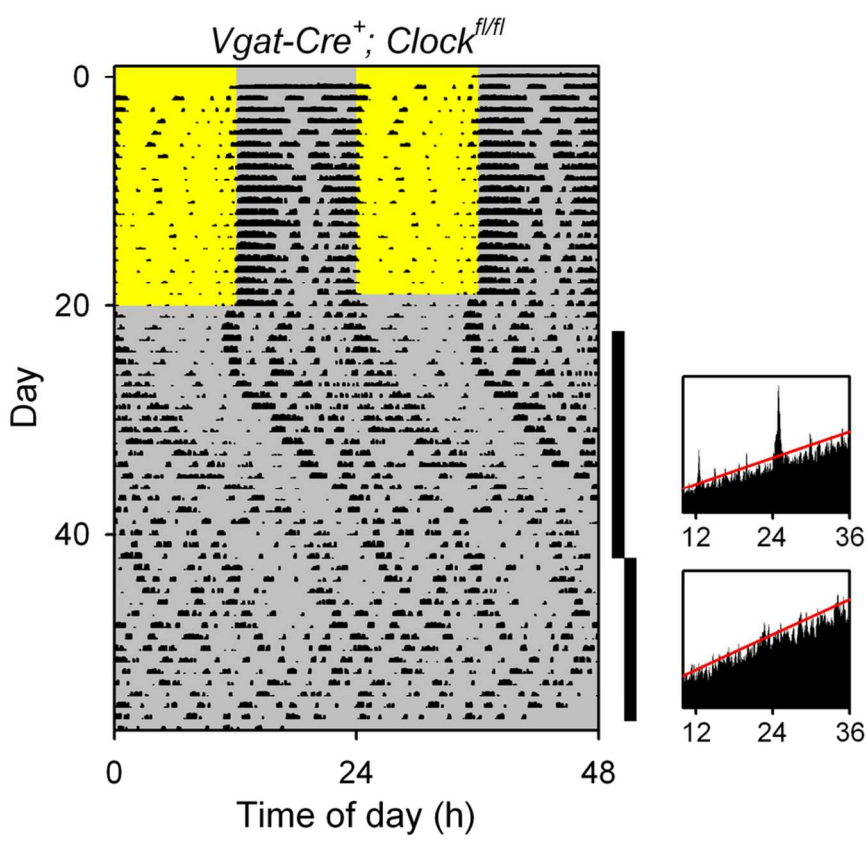
117x163mm (300 x 300 DPI)

Figure S3



177x187mm (300 x 300 DPI)

Figure S4



91x94mm (300 x 300 DPI)