

Table S3. Putative BMAL1 targets with transcription factor activity (DAVID, GO:003700).

Ensembl transcript ID	Symbol	Name	mRNA (qPCR)	rank	p-val	phase
Nuclear receptor						
ENSMUST00000064941	Nr1d1	nuclear receptor subfamily 1, group D, member 1	Rhythmic	2	0.0025	5.9
ENSMUST00000143308	Nr1d2	nuclear receptor subfamily 1, group D, member 2	Rhythmic	5	0.0044	9.6
ENSMUST00000029795	Rorc	RAR-related orphan receptor gamma	Rhythmic	17	0.0021	19.7
ENSMUST00000126697	Nr3c2	nuclear receptor subfamily 3, group C, member 2	Non-Rhythmic	57	0.0133	7.0
ENSMUST00000108393	Hnf4g	hepatocyte nuclear factor 4, gamma	Non-Rhythmic	146	0.2121	5.6
ENSMUST00000113432	Esrra	estrogen related receptor, alpha	Rhythmic	228	0.1329	14.8
ENSMUST00000032768	Nr2f2	nuclear receptor subfamily 2, group F, member 2	Non-Rhythmic	296	0.0298	9.9
ENSMUST00000136453	Ppara	peroxisome proliferator activated receptor alpha	Rhythmic	302	0.0549	9.9
ENSMUST00000107473	Rara	retinoic acid receptor, alpha	Rhythmic	836	0.2703	16.3
ENSMUST00000042706	Nr0b2	nuclear receptor subfamily 0, group B, member 2	Rhythmic	1539	0.1962	23.8
ENSMUST00000023504	Nr1i2	nuclear receptor subfamily 1, group I, member 2	Non-Rhythmic	1591	0.1590	11.4
ENSMUST00000143507	Rora	RAR-related orphan receptor alpha	Non-Rhythmic	1655	0.0818	18.3
ENSMUST00000124072	Thra	thyroid hormone receptor alpha	Rhythmic	1694	0.0052	3.2
ENSMUST00000105297	Nr1h4	nuclear receptor subfamily 1, group H, member 4	Non-Rhythmic	1715	0.3493	13.0
ENSMUST00000051130	Hnf4a	hepatic nuclear factor 4, alpha	Non-Rhythmic	1746	0.0070	13.9
ENSMUST00000112609	Rarb	retinoic acid receptor, beta	Non-Rhythmic	1789	0.8635	6.3
ENSMUST00000127489	Esrrg	estrogen-related receptor gamma	Rhythmic	1942	0.6643	4.6
ENSMUST00000027649	Nr5a2	nuclear receptor subfamily 5, group A, member 2	Non-Rhythmic	1960	0.3627	23.8
Basic-leucine zipper (bZIP)						
ENSMUST00000155439	Dbp	D site albumin promoter binding protein		4	0.0013	9.1
ENSMUST00000107883	Hlf	hepatic leukemia factor		10	0.0035	12.6
ENSMUST00000023024	Tef	thyrotroph embryonic factor		14	0.0001	11.4
ENSMUST00000071065	Nfil3	similar to NFIL3/E4BP4 transcription factor; nuclear factor, interleukin 3, regulated		55	0.0004	22.0
ENSMUST00000064922	Junb	Jun-B oncogene		60	0.0956	5.2
ENSMUST00000109104	Maf	similar to c-Maf long form		111	0.2219	11.0
ENSMUST00000152371	Nfe2l2	nuclear factor, erythroid derived 2, like 2		129	0.2674	12.3
ENSMUST00000108828	Atf7	activating transcription factor 7		471	0.6786	14.3
ENSMUST00000156958	Bach1	BTB and CNC homology 1		509	0.2342	10.0
ENSMUST00000099126	Mafb	v-maf musculoaponeurotic fibrosarcoma oncogene family, protein B (avian)		824	0.1211	12.0
ENSMUST00000151577	Mafk	v-maf musculoaponeurotic fibrosarcoma oncogene family, protein K (avian)		936	0.1959	6.5
ENSMUST00000015605	Atf6b	activating transcription factor 6 beta		965	0.2015	21.4
ENSMUST00000132438	Nfe2	nuclear factor, erythroid derived 2		1251	0.0522	1.4
ENSMUST00000048384	Creb3l3	cAMP responsive element binding protein 3-like 3		1501	0.0798	11.3
ENSMUST00000063084	Xbp1	X-box binding protein 1		1817	0.0883	16.8

Basic helix-loop-helix					
ENSMUST00000105345	Tcf3	transcription factor E2a	214	0.1032	3.8
ENSMUST00000112273	Epas1	endothelial PAS domain protein 1; similar to Endothelial PAS domain protein 1	390	0.2073	14.1
ENSMUST00000021530	Hif1a	hypoxia inducible factor 1, alpha subunit	407	0.0687	8.9
ENSMUST00000132150	Mnt	max binding protein	590	0.2315	22.4
ENSMUST00000084703	Arntl	aryl hydrocarbon receptor nuclear translocator-like	1406	0.0005	21.9
ENSMUST00000058636	Helt	Hey-like transcription factor (zebrafish)	1466	-	-
Zinc finger					
ENSMUST00000032174	Klf15	Kruppel-like factor 15	52	0.0493	11.2
ENSMUST00000038558	Klf16	Kruppel-like factor 16	185	0.1092	9.1
ENSMUST00000020982	Klf11	Kruppel-like factor 11	343	0.5339	5.7
ENSMUST00000028866	Zc3h8	zinc finger CCCH type containing 8	669	0.0624	12.3
ENSMUST00000098143	Nfx1	nuclear transcription factor, X-box binding 1	679	0.0125	7.8
ENSMUST00000006762	Snai3	snail homolog 3 (Drosophila)	780	0.8176	11.6
ENSMUST00000047734	Zfp281	zinc finger protein 281	1081	0.0028	10.9
ENSMUST00000034629	Hinfp	similar to MBD2-interacting zinc finger; histone H4 transcription factor	1092	0.5522	8.2
ENSMUST00000018491	Zkscan6	zinc finger with KRAB and SCAN domains 6	1564	0.7216	19.8
ENSMUST00000114667	Tshz1	teashirt zinc finger family member 1	1969	0.0947	12.6
Homeobox					
ENSMUST00000111429	Pou2f1	POU domain, class 2, transcription factor 1	512	0.0513	4.5
ENSMUST00000115145	Onecut2	one cut domain, family member 2	1506	0.0849	10.8
ENSMUST00000010319	Prox1	prospero-related homeobox 1	1761	0.2013	17.7
ENSMUST00000109693	Irx2	similar to iroquois-class homeobox protein IRX2	1801	0.7377	19.2
ENSMUST00000027878	Prrx1	paired related homeobox 1	1808	0.1990	18.0
ENSMUST00000137697	Satb1	special AT-rich sequence binding protein 1	2011	0.0429	3.3
ENSMUST00000077337	Irx1	Iroquois related homeobox 1 (Drosophila)	2037	0.2746	20.2
SMAD domain					
ENSMUST00000069557	Smad5	MAD homolog 5 (Drosophila)	601	0.0955	9.8
ENSMUST00000025453	Smad2	MAD homolog 2 (Drosophila)	901	0.4373	5.9
ENSMUST00000144323	Smad6	MAD homolog 6 (Drosophila)	1266	0.4842	20.8
ENSMUST00000066091	Smad1	MAD homolog 1 (Drosophila)	2031	0.3675	0.0
Winged helix					
ENSMUST00000105501	Foxo3	forkhead box O3	217	0.0124	10.6
ENSMUST00000111979	Pax2	paired box gene 2	361	-	-
ENSMUST00000106114	Foxk2	forkhead box K2	925	0.0257	10.8
ENSMUST00000079071	Tfdp1	transcription factor Dp 1; similar to Transcription factor Dp-1 (E2F dimerization partner 1)	975	0.1035	12.5
ENSMUST00000145869	Etv6	ets variant gene 6 (TEL oncogene)	993	0.4587	19.7
ENSMUST00000108920	Irf1	interferon regulatory factor 1	998	0.0183	2.7

ENSMUST00000034041	Irf2	interferon regulatory factor 2	1283	0.0496	10.3
ENSMUST00000140544	Ets2	E26 avian leukemia oncogene 2, 3' domain	1550	0.1107	6.8
Others					
ENSMUST00000131118	Arid3a	AT rich interactive domain 3A (BRIGHT-like)	116	0.6162	6.0
ENSMUST00000035101	Csrnp1	cysteine-serine-rich nuclear protein 1	216	0.0400	9.8
ENSMUST00000099070	Nfix	nuclear factor I/X	281	0.0482	9.3
ENSMUST00000112995	Tsc22d3	TSC22 domain family, member 3	337	0.0169	16.8
ENSMUST00000038107	Cited2	Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 2	427	0.4922	2.8
ENSMUST00000152145	Affl1	AF4/FMR2 family, member 1	810	0.0363	4.0
ENSMUST00000098937	Ecsit	ECSIT homolog (Drosophila)	865	0.3822	12.2
ENSMUST00000152082	Arap1	ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 1	953	0.0272	2.9
ENSMUST00000130911	Nfyb	nuclear transcription factor-Y beta	1042	0.1259	6.2
ENSMUST00000078185	Nfic	nuclear factor I/C	1094	0.1632	16.4
ENSMUST00000079652	Sox7	SRY-box containing gene 7	1231	0.3954	10.3
ENSMUST00000107358	Stat5b	signal transducer and activator of transcription 5B	1313	0.0020	1.7
ENSMUST00000139138	Ctnnb1	catenin (cadherin associated protein), beta 1	1562	0.6917	21.9
ENSMUST00000072460	Mef2a	similar to Myocyte enhancer factor 2A; myocyte enhancer factor 2A	1689	0.2334	11.8

Additional columns include the rank of BMAL1 binding strength, the p-value for cyclic mRNA expression (data as in Fig. 6 significant values $p < 0.05$ are in bold), and phase of mRNA expression given in hours. For the nuclear receptors, we also indicate results for mRNA expression patterns by real-time-PCR in mouse liver {Yang, 2006}. According to those all 18 bound receptors are expressed and 9/18 show circadian accumulation.