

## **Additional Information**

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**Table S1: Effects of dBRM depletion on the S2 transcriptome**

	<b>dsGFP</b>	<b>dsBRM</b>
<b>Number of mapped reads</b>	48434393	39735394
<b>Expressed genes</b>	10670	10482
<b>Increased expression</b>	98	
<b>Decreased expression</b>	66	

Expressed genes are genes with at least one count in either of the two replicates. Downregulated genes are genes that show a fold change BRM/GFP lower than 0.5 in each of two independent replicates. Upregulated genes are genes that show a fold change BRM/GFP higher than 2 in each of two independent replicates.

**Table S2: List of differentially expressed genes in dBRM-depleted cells****66 genes with decreased expression:**

Alk	CG14196	CG4250	CG8213	lin-28
beat-IIIc	CG14694	CG42675	CG9498	neuroligin
brm	CG15456	CG42697	CG9616	Ppm1
brn	CG15642	CG42821	CG9624	ptr
CAH1	CG18507	CG43243	chn	RpS14a
CanA1	CG18605	CG43291	Cht8	RpS19b
CG10814	CG18628	CG43324	CR43275	sano
CG10827	CG30157	CG4733	CR43651	snoRNA:O
CG12116	CG31279	CG5773	dmGlut	r-CD1
CG12398	CG33307	CG5867	drl	sug
CG13386	CG34330	CG6163	Epac	
CG13618	CG3842	CG6472	Hakai	
CG13822	CG3955	CG7058	Hsp67Bc	
CG13897	CG4019	CG7509	Kall	

**98 genes with increased expression:**

CG42711	CG14688	CG3397	CR40743	mir-2279
a10	CG14717	CG33970	CR40766	Muc30E
Ance-5	CG14955	CG40005	CR43240	n-syb
btsz	CG15153	CG4194	CR43916	Oat
bw	CG15528	CG42343	CR43975	qin
CG10006	CG17150	CG42368	Cyp4d20	Rbp6
CG10086	CG17290	CG42562	Damm	Ret
CG10175	CG17386	CG42817	dlp	Rya-r44F
CG11034	CG17732	CG43797	ds	sn
CG11147	CG1774	CG4576	Gal	snoRNA:1
CG11226	CG18754	CG5160	gk	85
CG11384	CG2993	CG5731	Gr43b	snoRNA:Ps
CG11395	CG30355	CG5758	hale	i18S-1377c
CG11852	CG31259	CG5895	I-t	stet
CG13278	CG31817	CG6910	Ir51a	tara
CG13458	CG31952	CG7997	Ir54a	Twdlalpha
CG13659	CG32091	CG8550	l(3)72Dr	Ugt36Ba
CG14022	CG32354	CG9360	lectin-22C	
CG14309	CG32669	CG9988	lectin-24A	
CG14372	CG33017	Cha	lectin-	
CG14509	CG33253	CheB42c	24Db	

### Table S3: List of dBRM-bound genes

The list includes dBRM-bound genes identified by ChIP-seq in S2 cells using an antibody against the endogenous dBRM protein (Jordán-Pla et al., BMC Genomics, 2018).

FBgn0038460	FBgn0041607	FBgn0031228	FBgn0039528	FBgn0040398	FBgn0005612	FBgn0039098
FBgn0035558	FBgn0052486	FBgn0053465	FBgn0003231	FBgn0259938	FBgn0086355	FBgn0035496
FBgn0040309	FBgn0016920	FBgn0010438	FBgn0034396	FBgn0011766	FBgn0035710	FBgn0001137
FBgn0036463	FBgn0001227	FBgn0050197	FBgn0035312	FBgn0015229	FBgn0025885	FBgn0003067
FBgn0063497	FBgn0031461	FBgn0035263	FBgn0030894	FBgn0052641	FBgn0031150	FBgn0034160
FBgn0029895	FBgn0037819	FBgn0023507	FBgn0001229	FBgn0052640	FBgn0003321	FBgn0011672
FBgn0033402	FBgn0045761	FBgn0262743	FBgn0024734	FBgn0053498	FBgn0000546	FBgn0051324
FBgn0035097	FBgn0035498	FBgn0259740	FBgn0011764	FBgn0053878	FBgn0250869	FBgn0029823
FBgn0030797	FBgn0038784	FBgn0030880	FBgn0029935	FBgn0040827	FBgn0262656	FBgn0003884
FBgn0050160	FBgn0040308	FBgn0034501	FBgn0034049	FBgn0002719	FBgn0037207	FBgn0032935
FBgn0262795	FBgn0050280	FBgn0260866	FBgn0024980	FBgn0262736	FBgn0038420	FBgn0035347
FBgn0053868	FBgn0033015	FBgn0261588	FBgn0030805	FBgn0032025	FBgn0051777	FBgn0038149
FBgn0004828	FBgn0003396	FBgn0051866	FBgn0035626	FBgn0086450	FBgn0261550	FBgn0036007
FBgn0001332	FBgn0022787	FBgn0030941	FBgn0031970	FBgn0031939	FBgn0010038	FBgn0038407
FBgn0000097	FBgn0050089	FBgn0050489	FBgn0040609	FBgn0039266	FBgn0025631	FBgn0036532
FBgn0001226	FBgn0015585	FBgn0000071	FBgn0031904	FBgn0262823	FBgn0027493	FBgn0036623
FBgn0029795	FBgn0259834	FBgn0029880	FBgn0031526	FBgn0262846	FBgn0030300	FBgn0020249
FBgn0031453	FBgn0036101	FBgn0032330	FBgn0040396	FBgn0037164	FBgn0040319	FBgn0263593
FBgn0039209	FBgn0039464	FBgn0010501	FBgn0033312	FBgn0262893	FBgn0001098	FBgn0032693
FBgn0011705	FBgn0262740	FBgn0032900	FBgn0033093	FBgn0261800	FBgn0262707	FBgn0005634
FBgn0032120	FBgn0008654	FBgn0260986	FBgn0262576	FBgn0001078	FBgn0027547	FBgn0029881
FBgn0036288	FBgn0051370	FBgn0013733	FBgn0031302	FBgn0036684	FBgn0032780	FBgn0030893
FBgn0052758	FBgn0032178	FBgn0038097	FBgn0013279	FBgn0032770	FBgn0042135	FBgn0034082
FBgn0038198	FBgn0003117	FBgn0053557	FBgn0035084	FBgn0030400	FBgn0011236	FBgn0030318
FBgn0037468	FBgn0039613	FBgn0003557	FBgn0014380	FBgn0028420	FBgn0086687	FBgn0037230
FBgn0036858	FBgn0032810	FBgn0052572	FBgn0020415	FBgn0029825	FBgn0001186	FBgn0000017
FBgn0039492	FBgn0026562	FBgn0037518	FBgn0011837	FBgn0016131	FBgn0085443	FBgn0003870
FBgn0011661	FBgn0028408	FBgn0027280	FBgn0029507	FBgn0003079	FBgn0033188	FBgn0041337
FBgn0038197	FBgn0050069	FBgn0033374	FBgn0025683	FBgn0052594	FBgn0033782	FBgn0023407
FBgn0262976	FBgn0027561	FBgn0037874	FBgn0041184	FBgn0063498	FBgn0039487	FBgn0023167
FBgn0050281	FBgn0010352	FBgn0000221	FBgn0034638	FBgn0034718	FBgn0000045	FBgn0015222
FBgn0003888	FBgn0053346	FBgn0053260	FBgn0026753	FBgn0261508	FBgn0010358	FBgn0035445
FBgn0034405	FBgn0063496	FBgn0034354	FBgn0033421	FBgn0020416	FBgn0029095	FBgn0027087
FBgn0032720	FBgn0038504	FBgn0261383	FBgn0085359	FBgn0003963	FBgn0039593	FBgn0001225
FBgn0004362	FBgn0000163	FBgn0034420	FBgn0000308	FBgn0260011	FBgn0003748	FBgn0000318
FBgn0031974	FBgn0010704	FBgn0038680	FBgn0024293	FBgn0036746	FBgn0032147	FBgn0086708
FBgn0035578	FBgn0053926	FBgn0260747	FBgn0020762	FBgn0002865	FBgn0010300	FBgn0025391
FBgn0030073	FBgn0051075	FBgn0052982	FBgn0014011	FBgn0029877	FBgn0263120	FBgn0039737

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FBgn0261592	FBgn0037165	FBgn0037076	FBgn0051673	FBgn0034012	FBgn0034091	FBgn0053870
FBgn0259923	FBgn0037012	FBgn0026439	FBgn0039431	FBgn0030864	FBgn0003360	FBgn0053874
FBgn0025630	FBgn0085405	FBgn0033367	FBgn0025456	FBgn0011286	FBgn0035083	FBgn0053876
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FBgn0040765	FBgn0031417	FBgn0024947	FBgn0000320	FBgn0004888	FBgn0264693	FBgn0053806
FBgn0259821	FBgn0262719	FBgn0086371	FBgn0260632	FBgn0016078	FBgn0052512	FBgn0053809
FBgn0035989	FBgn0034166	FBgn0032364	FBgn0264562	FBgn0022355	FBgn0035499	FBgn0053821
FBgn0051314	FBgn0033502	FBgn0011754	FBgn0038412	FBgn0035060	FBgn0030486	FBgn0053824
FBgn0034282	FBgn0026056	FBgn0032456	FBgn0033706	FBgn0034870	FBgn0051687	FBgn0053827
FBgn0035147	FBgn0053129	FBgn0040091	FBgn0004652	FBgn0250785	FBgn0011742	FBgn0053845
FBgn0010397	FBgn0053548	FBgn0039494	FBgn0038068	FBgn0051216	FBgn0259984	FBgn0053851
FBgn0020493	FBgn0028394	FBgn0053469	FBgn0259876	FBgn0038853	FBgn0037659	FBgn0053854
FBgn0028956	FBgn0030935	FBgn0250867	FBgn0030616	FBgn0259174	FBgn0066292	FBgn0053873
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FBgn0086448	FBgn0029646	FBgn0263404	FBgn0038160	FBgn0031130	FBgn0085304	FBgn0053307
FBgn0003411	FBgn0031178	FBgn0085379	FBgn0046880	FBgn0011674	FBgn0025525	FBgn0040532
FBgn0036419	FBgn0030949	FBgn0037416	FBgn0030758	FBgn0037422	FBgn0032587	FBgn0263355
FBgn0028906	FBgn0037456	FBgn0038132	FBgn0033587	FBgn0040794	FBgn0053856	FBgn0058470
FBgn0243516	FBgn0030026	FBgn0032965	FBgn0051104	FBgn0035510	FBgn0053875	FBgn0003507
FBgn0020647	FBgn0052073	FBgn0031374	FBgn0037486	FBgn0034838	FBgn0053889	FBgn0051253
FBgn0261871	FBgn0014019	FBgn0037124	FBgn0038682	FBgn0003145	FBgn0033980	FBgn0003887
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FBgn0028886	FBgn0035736	FBgn0033786	FBgn0053642	FBgn0031559	FBgn0030529	FBgn0033196
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FBgn0033793	FBgn0050384	FBgn0030358	FBgn0030493	FBgn0037206	FBgn0000079	FBgn0040285
FBgn0040388	FBgn0031988	FBgn0034793	FBgn0033327	FBgn0003071	FBgn0034897	FBgn0044826
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FBgn0035171	FBgn0040034	FBgn0001258	FBgn0053769	FBgn0038799	FBgn0041150	FBgn0001104
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FBgn0037176	FBgn0016794	FBgn0030566	FBgn0020371	FBgn0035582	FBgn0022709	FBgn0013983
FBgn0023197	FBgn0037552	FBgn0031023	FBgn0033594	FBgn0000551	FBgn0053502	FBgn0023535
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FBgn0022160	FBgn0032167	FBgn0050022	FBgn0053503	FBgn0004649	FBgn0261617	FBgn0003345
FBgn0027598	FBgn0041585	FBgn0029770	FBgn0050382	FBgn0261445	FBgn0036616	FBgn0260659
FBgn0001994	FBgn0003209	FBgn0004889	FBgn0034647	FBgn0031897	FBgn0003502	FBgn0031501
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FBgn0052425	FBgn0002524	FBgn0033913	FBgn0004171	FBgn0033308	FBgn0031255	FBgn0015522
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FBgn0030296	FBgn0031913	FBgn0038638	FBgn0032399	FBgn0003900	FBgn0039061	FBgn0033835
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FBgn0037807	FBgn0034200	FBgn0085323	FBgn0038535	FBgn0016930	FBgn0014863	FBgn0262484
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FBgn0259215	FBgn0085306	FBgn0262699	FBgn0050115	FBgn0001967	FBgn0033814	FBgn0024236
FBgn0010395	FBgn0261113	FBgn0023214	FBgn0051975	FBgn0002643	FBgn0034225	FBgn0052772
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FBgn0032699	FBgn0086901	FBgn0014135	FBgn0033836	FBgn0029824	FBgn0000042	FBgn0033127
FBgn0039223	FBgn0030065	FBgn0262103	FBgn0002577	FBgn0053494	FBgn0033717	FBgn0034861
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FBgn0000357	FBgn0028936	FBgn0004607	FBgn0022029	FBgn0017558	FBgn0037989	FBgn0259101

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FBgn0036861	FBgn0053841	FBgn0023528	FBgn0038261	FBgn0038709	FBgn0043791	FBgn0036738
FBgn0031758	FBgn0053812	FBgn0031118	FBgn0011217	FBgn0259749	FBgn0037482	FBgn0042177
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FBgn0023000	FBgn0053901	FBgn0036816	FBgn0040475	FBgn0028490	FBgn0259734	FBgn0030603
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FBgn0002921	FBgn0032775	FBgn0016926	FBgn0001404	FBgn0052574	FBgn0032891	FBgn0001941
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FBgn0027569	FBgn0052318	FBgn0027590	FBgn0034290	FBgn0011763	FBgn0037974	FBgn0243512
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FBgn0029894	FBgn0031937	FBgn0085446	FBgn0036871	FBgn0032888	FBgn0027945	FBgn0001224
FBgn0050377	FBgn0038981	FBgn0050456	FBgn0260746	FBgn0035444	FBgn0050345	FBgn0039848
FBgn0260972	FBgn0054010	FBgn0038721	FBgn0005630	FBgn0050095	FBgn0014427	FBgn0050323
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FBgn0037720	FBgn0029155	FBgn0052580	FBgn0033584	FBgn0259699	FBgn0032455	FBgn0028978
FBgn0050342	FBgn0037227	FBgn0030052	FBgn0026250	FBgn0259700	FBgn0261458	FBgn0038286
FBgn0051406	FBgn0262353	FBgn0042111	FBgn0037506	FBgn0010583	FBgn0032585	FBgn0050104
FBgn0036287	FBgn0052676	FBgn0036770	FBgn0028494	FBgn0038105	FBgn0013799	FBgn0012036
FBgn0030336	FBgn0261625	FBgn0261955	FBgn0031462	FBgn0031128	FBgn0037685	FBgn0085201
FBgn0015622	FBgn0038846	FBgn0260817	FBgn0030881	FBgn0261477	FBgn0026262	FBgn0010388
FBgn0052179	FBgn0038290	FBgn0051816	FBgn0015790	FBgn0052633	FBgn0026404	FBgn0004359
FBgn0026878	FBgn0262142	FBgn0036212	FBgn0261673	FBgn0263220	FBgn0011283	FBgn0030309
FBgn0085478	FBgn0005672	FBgn0014037	FBgn0033309	FBgn0038168	FBgn0034590	FBgn0033926
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FBgn0262888	FBgn0052237	FBgn0260768	FBgn0041342	FBgn0029980	FBgn0031457	FBgn0033124
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FBgn0037635	FBgn0031148	FBgn0034399	FBgn0029791	FBgn0028343	FBgn0261931	FBgn0023549
FBgn0086782	FBgn0264090	FBgn0028573	FBgn0031896	FBgn0032022	FBgn0036626	FBgn0000054
FBgn0052819	FBgn0038852	FBgn0035975	FBgn0029131	FBgn0004066	FBgn0029690	FBgn0051956

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FBgn0261618	FBgn0028577	FBgn0033739	FBgn0052185	FBgn0262057	FBgn0042206	FBgn0030993
FBgn0032029	FBgn0024814	FBgn0051901	FBgn0003896	FBgn0031914	FBgn0030462	FBgn0063491
FBgn0259926	FBgn0022382	FBgn0024321	FBgn0041182	FBgn0026576	FBgn0003267	FBgn0261574
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FBgn0031257	FBgn0062565	FBgn0040718	FBgn0039321	FBgn0052820	FBgn0028563	FBgn0051211
FBgn0030834	FBgn0013275	FBgn0264493	FBgn0031883	FBgn0001142	FBgn0086674	FBgn0259227
FBgn0043025	FBgn0261859	FBgn0001148	FBgn0015924	FBgn0011739	FBgn0085188	FBgn0264477
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FBgn0027108	FBgn0053866	FBgn0063494	FBgn0262035	FBgn0032586	FBgn0052822	FBgn0051675
FBgn0051415	FBgn0051232	FBgn0020257	FBgn0000416	FBgn0033627	FBgn0030989	FBgn0261461
FBgn0085550	FBgn0013763	FBgn0040600	FBgn0042173	FBgn0053460	FBgn0014467	FBgn0039177
FBgn0029506	FBgn0034753	FBgn0085787	FBgn0034583	FBgn0016123	FBgn0036842	FBgn0031011
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FBgn0038100	FBgn0259739	FBgn0020304	FBgn0261847	FBgn0037021	FBgn0053093	
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FBgn0004396	FBgn0023129	FBgn0263773	FBgn0033051	FBgn0262102	FBgn0039044	
FBgn0032023	FBgn0004907	FBgn0010385	FBgn0035425	FBgn0262604	FBgn0036152	
FBgn0263240	FBgn0023083	FBgn0035904	FBgn0021760	FBgn0039858	FBgn0053470	
FBgn0034198	FBgn0031950	FBgn0086676	FBgn0030362	FBgn0027339	FBgn0000099	

**Table S4: List of genes in Cluster 1**

FBgn0053217	FBgn0034638	FBgn0001218	FBgn0052152	FBgn0037057	FBgn0260632
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FBgn0040398	FBgn0013272	FBgn0004047	FBgn0026409	FBgn0037207	FBgn0032770
FBgn0040338	FBgn0034718	FBgn0026713	FBgn0029167	FBgn0041621	FBgn0041789
FBgn0025642	FBgn0011211	FBgn0030582	FBgn0086708	FBgn0053113	FBgn0024245
FBgn0028550	FBgn0003900	FBgn0052594	FBgn0036316	FBgn0001941	FBgn0005672
FBgn0025381	FBgn0034802	FBgn0030596	FBgn0022709	FBgn0000308	FBgn0037506
FBgn0023507	FBgn0034870	FBgn0030589	FBgn0053265	FBgn0040949	FBgn0086372
FBgn0024984	FBgn0011236	FBgn0030663	FBgn0028573	FBgn0015623	FBgn0037482
FBgn0024980	FBgn0025806	FBgn0030659	FBgn0052056	FBgn0259749	FBgn0000071
FBgn0004647	FBgn0034997	FBgn0001092	FBgn0040475	FBgn0051637	FBgn0003884
FBgn0029639	FBgn0005636	FBgn0052580	FBgn0001226	FBgn0031888	FBgn0004780
FBgn0015565	FBgn0034999	FBgn0030731	FBgn0023129	FBgn0051908	FBgn0243512
FBgn0000221	FBgn0003888	FBgn0004066	FBgn0001225	FBgn0011283	FBgn0062412
FBgn0029707	FBgn0041582	FBgn0052572	FBgn0001229	FBgn0031904	FBgn0037646
FBgn0029737	FBgn0035022	FBgn0260748	FBgn0040827	FBgn0261800	FBgn0043791
FBgn0004368	FBgn0035085	FBgn0260747	FBgn0000357	FBgn0045038	FBgn0037720
FBgn0029766	FBgn0035091	FBgn0030834	FBgn0000355	FBgn0261822	FBgn0037731
FBgn0029813	FBgn0035083	FBgn0030880	FBgn0035904	FBgn0032022	FBgn0002868
FBgn0052758	FBgn0050428	FBgn0027087	FBgn0035811	FBgn0053194	FBgn0037852
FBgn0029849	FBgn0004919	FBgn0010383	FBgn0052380	FBgn0028394	FBgn0040259
FBgn0029853	FBgn0035147	FBgn0027335	FBgn0035626	FBgn0019809	FBgn0037874
FBgn0261955	FBgn0035189	FBgn0030941	FBgn0016031	FBgn0040070	FBgn0051211
FBgn0029878	FBgn0010786	FBgn0030933	FBgn0031148	FBgn0032167	FBgn0260745
FBgn0028360	FBgn0027547	FBgn0259834	FBgn0031126	FBgn0086347	FBgn0017581
FBgn0029895	FBgn0035309	FBgn0030985	FBgn0031646	FBgn0032330	FBgn0010038
FBgn0029894	FBgn0010909	FBgn0027621	FBgn0051777	FBgn0053129	FBgn0038037
FBgn0027108	FBgn0035388	FBgn0031037	FBgn0031461	FBgn0032364	FBgn0038020
FBgn0029935	FBgn0052280	FBgn0031054	FBgn0031457	FBgn0028490	FBgn0086687
FBgn0029975	FBgn0015585	FBgn0036859	FBgn0031381	FBgn0051866	FBgn0013279
FBgn0027280	FBgn0035498	FBgn0036843	FBgn0003557	FBgn0003145	FBgn0038074
FBgn0029979	FBgn0264693	FBgn0036816	FBgn0040718	FBgn0263598	FBgn0005671
FBgn0261592	FBgn0003321	FBgn0036814	FBgn0031302	FBgn0032485	FBgn0038100
FBgn0020653	FBgn0003360	FBgn0011706	FBgn0031307	FBgn0032484	FBgn0040551
FBgn0041629	FBgn0003411	FBgn0003997	FBgn0016926	FBgn0027348	FBgn0038149
FBgn0030093	FBgn0001145	FBgn0036770	FBgn0010583	FBgn0002524	FBgn0038132
FBgn0086450	FBgn0030300	FBgn0010352	FBgn0031261	FBgn0028506	FBgn0038220
FBgn0052672	FBgn0030318	FBgn0036663	FBgn0025683	FBgn0020416	FBgn0013767
FBgn0052675	FBgn0014133	FBgn0004569	FBgn0052425	FBgn0020415	FBgn0024321
FBgn0016984	FBgn0030309	FBgn0014163	FBgn0028978	FBgn0040985	FBgn0086686
FBgn0000395	FBgn0262740	FBgn0036623	FBgn0026179	FBgn0032646	FBgn0004629

FBgn0038261	FBgn0026562	FBgn0034198	FBgn0003090	FBgn0011742	FBgn0035444
FBgn0038277	FBgn0039494	FBgn0034158	FBgn0002930	FBgn0020762	FBgn0037553
FBgn0011217	FBgn0042111	FBgn0034160	FBgn0011764	FBgn0025574	FBgn0050502
FBgn0038290	FBgn0039487	FBgn0034093	FBgn0032720	FBgn0030797	FBgn0052772
FBgn0038347	FBgn0040609	FBgn0053463	FBgn0025885	FBgn0033649	FBgn0052666
FBgn0003117	FBgn0039500	FBgn0083919	FBgn0259481	FBgn0034861	FBgn0052626
FBgn0038412	FBgn0027494	FBgn0013750	FBgn0050489	FBgn0037819	FBgn0036211
FBgn0038407	FBgn0046258	FBgn0033982	FBgn0003892	FBgn0261808	FBgn0261618
FBgn0038419	FBgn0002865	FBgn0013773	FBgn0005278	FBgn0038286	FBgn0036493
FBgn0038460	FBgn0039593	FBgn0015714	FBgn0041607	FBgn0038309	FBgn0037676
FBgn0038484	FBgn0039613	FBgn0013772	FBgn0086676	FBgn0039026	FBgn0260768
FBgn0038504	FBgn0039637	FBgn0001332	FBgn0031883	FBgn0042110	FBgn0039528
FBgn0010389	FBgn0015622	FBgn0050197	FBgn0032456	FBgn0045761	FBgn0028343
FBgn0038595	FBgn0051038	FBgn0010397	FBgn0053557	FBgn0058002	FBgn0051314
FBgn0038638	FBgn0039756	FBgn0050069	FBgn0053814	FBgn0058196	FBgn0011754
FBgn0038645	FBgn0086355	FBgn0033913	FBgn0053816	FBgn0003495	FBgn0004861
FBgn0038660	FBgn0015221	FBgn0033926	FBgn0053823	FBgn0030349	FBgn0034321
FBgn0010768	FBgn0039776	FBgn0261270	FBgn0053841	FBgn0034012	FBgn0030964
FBgn0038682	FBgn0010015	FBgn0004638	FBgn0053850	FBgn0001248	FBgn0022787
FBgn0261285	FBgn0002413	FBgn0033786	FBgn0053859	FBgn0052196	FBgn0085442
FBgn0051216	FBgn0039830	FBgn0003326	FBgn0053883	FBgn0032943	FBgn0032123
FBgn0014135	FBgn0261988	FBgn0023167	FBgn0053889	FBgn0013576	FBgn0023479
FBgn0026753	FBgn0039848	FBgn0033706	FBgn0053901	FBgn0050022	FBgn0259821
FBgn0038721	FBgn0000546	FBgn0014184	FBgn0053926	FBgn0051145	FBgn0263316
FBgn0038720	FBgn0029131	FBgn0033584	FBgn0010438	FBgn0052944	FBgn0262519
FBgn0053094	FBgn0033095	FBgn0050015	FBgn0020496	FBgn0033308	FBgn0034083
FBgn0264357	FBgn0262736	FBgn0033518	FBgn0030863	FBgn0034420	FBgn0036212
FBgn0038852	FBgn0034501	FBgn0261014	FBgn0024182	FBgn0002931	FBgn0025391
FBgn0046763	FBgn0003887	FBgn0262169	FBgn0034139	FBgn0086899	FBgn0037715
FBgn0011766	FBgn0010053	FBgn0016078	FBgn0001223	FBgn0261461	FBgn0053260
FBgn0038966	FBgn0010651	FBgn0050344	FBgn0024251	FBgn0259220	FBgn0261508
FBgn0039025	FBgn0023214	FBgn0033367	FBgn0001228	FBgn0263780	FBgn0027561
FBgn0039060	FBgn0063498	FBgn0040777	FBgn0010704	FBgn0025628	FBgn0053346
FBgn0039059	FBgn0063492	FBgn0033309	FBgn0052699	FBgn0034639	FBgn0005634
FBgn0039098	FBgn0034354	FBgn0050362	FBgn0033015	FBgn0028988	FBgn0020304
FBgn0039155	FBgn0003067	FBgn0050364	FBgn0058470	FBgn0008654	FBgn0261545
FBgn0019952	FBgn0034313	FBgn0033247	FBgn0085323	FBgn0053329	FBgn0261547
FBgn0003134	FBgn0034290	FBgn0263121	FBgn0085354	FBgn0050115	FBgn0261549
FBgn0046685	FBgn0028953	FBgn0033204	FBgn0085359	FBgn0051627	FBgn0261617
FBgn0039209	FBgn0050104	FBgn0042135	FBgn0085365	FBgn0052638	FBgn0261570
FBgn0039303	FBgn0034224	FBgn0033183	FBgn0086901	FBgn0259174	FBgn0032889
FBgn0039321	FBgn0028956	FBgn0263240	FBgn0085478	FBgn0034405	FBgn0261625
FBgn0039464	FBgn0034219	FBgn0033127	FBgn0001624	FBgn0039798	FBgn0261636

FBgn0032036	FBgn0262686	FBgn0051668	FBgn0027598	FBgn0031257	FBgn0052529
FBgn0261859	FBgn0031359	FBgn0032721	FBgn0033312	FBgn0029866	FBgn0033402
FBgn0263593	FBgn0053267	FBgn0086902	FBgn0027493	FBgn0030351	FBgn0036428
FBgn0261931	FBgn0015801	FBgn0262719	FBgn0085512	FBgn0011661	FBgn0040765
FBgn0264495	FBgn0000567	FBgn0029880	FBgn0036030	FBgn0032935	FBgn0036844
FBgn0003209	FBgn0262793	FBgn0035087	FBgn0042125	FBgn0037521	FBgn0030743
FBgn0026439	FBgn0021768	FBgn0263346	FBgn0036684	FBgn0030521	FBgn0039858
FBgn0035049	FBgn0262823	FBgn0263355	FBgn0026144	FBgn0030400	FBgn0041210
FBgn0262103	FBgn0262846	FBgn0037635	FBgn0041184	FBgn0003175	FBgn0001186
FBgn0262142	FBgn0004868	FBgn0038846	FBgn0031697	FBgn0033777	FBgn0028990
FBgn0003300	FBgn0262890	FBgn0037222	FBgn0250823	FBgn0033782	FBgn0004828
FBgn0035872	FBgn0025865	FBgn0031758	FBgn0261793	FBgn0052103	FBgn0032586
FBgn0262353	FBgn0262947	FBgn0028369	FBgn0000017	FBgn0003204	FBgn0026090
FBgn0262362	FBgn0261985	FBgn0001224	FBgn0085410	FBgn0029657	FBgn0260635
FBgn0259740	FBgn0261550	FBgn0011826	FBgn0260934	FBgn0031871	FBgn0263865
FBgn0025702	FBgn0037974	FBgn0026259	FBgn0264324	FBgn0023407	FBgn0016119
FBgn0262484	FBgn0262975	FBgn0013765	FBgn0040212	FBgn0028387	FBgn0020513
FBgn0016920	FBgn0035578	FBgn0033421	FBgn0027581	FBgn0037486	FBgn0030935
FBgn0000253	FBgn0029092	FBgn0030648	FBgn0003396	FBgn0036288	FBgn0261688
FBgn0035558	FBgn0000568	FBgn0262468	FBgn0033639	FBgn0020412	FBgn0261259
FBgn0052369	FBgn0004893	FBgn0263655	FBgn0051974	FBgn0014011	FBgn0035132
FBgn0262579	FBgn0031571	FBgn0261703	FBgn0051635	FBgn0031150	FBgn0051324
FBgn0039492	FBgn0086448	FBgn0030869	FBgn0250867	FBgn0033063	FBgn0262893
FBgn0259938	FBgn0030028	FBgn0263749	FBgn0020622	FBgn0042175	

**Table S5: List of hBRG1 interactors**

The table shows Mascot scores (Prot\_score), count of distinct sequences for each protein (prot\_sequences) and number of unique peptides for each protein (pep\_isunique). Proteins with at least two identified peptides, at least one unique peptide, a score above 20, and a score at least twice as high as in the negative control samples were considered positive and are included in the table.

Prot_acc	Prot_score	Prot_sequence	Pep_isunique
ACINU_HUMAN	69	8	8
ACL6A_HUMAN	215	18	18
ACTB_HUMAN	284	17	4
ACTG_HUMAN	284	17	4
ACTN1_HUMAN	128	15	5
ACTN4_HUMAN	211	26	17
ADT2_HUMAN	50	9	3
ADT3_HUMAN	47	8	2
ADT4_HUMAN	41	4	1
AKAP8_HUMAN	36	7	7
ALBU_HUMAN	168	12	12
AQR_HUMAN	90	13	13
ARI1A_HUMAN	538	52	49
ARI1B_HUMAN	370	39	36
ARID2_HUMAN	38	19	19
ATPA_HUMAN	130	10	10
ATPB_HUMAN	62	9	9
ATRX_HUMAN	35	4	4
BCL7B_HUMAN	37	3	3
BCL7C_HUMAN	44	3	3
BD1L1_HUMAN	33	5	5
BIP_HUMAN	45	4	2
BPTF_HUMAN	38	5	5
BROMI_HUMAN	24	2	1
BYST_HUMAN	69	6	6
CCAR1_HUMAN	24	9	9
CCAR2_HUMAN	53	8	8
CDC5L_HUMAN	48	7	7
CH60_HUMAN	27	4	4
CHD4_HUMAN	202	36	29
CHERP_HUMAN	53	9	9
CLH1_HUMAN	55	12	12
CNTLN_HUMAN	26	2	2
CO4A_HUMAN	29	2	2
CO4B_HUMAN	29	2	2
CPSF1_HUMAN	30	4	4
CPSF2_HUMAN	32	3	3
CRNL1_HUMAN	41	2	2



CUL7_HUMAN	34	4	4
DAZP1_HUMAN	26	2	2
DDX1_HUMAN	26	5	5
DDX17_HUMAN	162	20	13
DDX3X_HUMAN	108	15	14
DDX5_HUMAN	122	16	9
DHX15_HUMAN	137	23	23
DHX30_HUMAN	44	4	4
DHX34_HUMAN	31	2	2
DHX9_HUMAN	247	31	31
DREB_HUMAN	28	3	3
DSG2_HUMAN	75	7	7
DSRAD_HUMAN	68	11	11
DX39A_HUMAN	74	10	2
DX39B_HUMAN	59	9	1
DYH5_HUMAN	29	3	3
EF1A1_HUMAN	30	6	6
EF1A3_HUMAN	30	6	6
EF1G_HUMAN	52	5	5
ELAV1_HUMAN	100	8	8
FILA2_HUMAN	65	5	5
FIP1_HUMAN	43	2	2
FLNA_HUMAN	30	8	8
FLOT2_HUMAN	32	2	2
FUBP3_HUMAN	51	7	7
FUS_HUMAN	68	6	3
G3BP1_HUMAN	50	4	4
GOGA1_HUMAN	34	2	1
GRP75_HUMAN	162	16	16
H2B3B_HUMAN	72	2	2
H31_HUMAN	25	3	3
H31T_HUMAN	25	3	3
H32_HUMAN	25	3	3
H33_HUMAN	25	3	3
HEAT1_HUMAN	107	6	6
HNRDL_HUMAN	27	6	4
HNRH1_HUMAN	254	16	6
HNRH2_HUMAN	67	17	8
HNRL1_HUMAN	46	2	2
HNRL2_HUMAN	66	8	7
HNRL1_HUMAN	33	2	2
HNRPC_HUMAN	185	15	9
HNRPD_HUMAN	38	6	5
HNRPK_HUMAN	198	14	14
HNRPL_HUMAN	219	17	17
HNRPM_HUMAN	368	23	23

HNRPU_HUMAN	121	12	12
HS71A_HUMAN	54	14	7
HS71B_HUMAN	54	14	7
HSP76_HUMAN	65	6	2
HSP77_HUMAN	54	14	7
HSP7C_HUMAN	136	12	6
IF2B3_HUMAN	22	2	2
IF2G_HUMAN	29	2	2
IF4A1_HUMAN	50	3	1
IF4A3_HUMAN	74	15	13
ILF3_HUMAN	134	13	11
IMA1_HUMAN	54	4	4
IMB1_HUMAN	74	14	14
ISY1_HUMAN	63	2	2
KHDR1_HUMAN	45	5	3
LACTB_HUMAN	37	4	4
LARP4_HUMAN	25	3	3
LEG1_HUMAN	23	2	2
LG3BP_HUMAN	30	2	2
LMNA_HUMAN	461	31	30
LMNB1_HUMAN	83	6	5
LMNB2_HUMAN	33	4	3
LMO7_HUMAN	139	8	8
LPPRC_HUMAN	30	7	7
MATR3_HUMAN	359	28	28
MCM2_HUMAN	45	6	6
MCM3_HUMAN	69	15	15
MCM4_HUMAN	69	10	10
MCM5_HUMAN	38	10	10
MCM6_HUMAN	71	8	8
MCM7_HUMAN	69	13	13
MTA2_HUMAN	36	7	7
MTREX_HUMAN	30	5	5
NCBP1_HUMAN	70	2	2
NH2L1_HUMAN	23	3	3
NOLC1_HUMAN	23	3	3
NPM_HUMAN	93	6	6
NU205_HUMAN	35	3	3
NUMA1_HUMAN	81	11	11
NUP93_HUMAN	40	3	3
OST48_HUMAN	24	4	4
P66B_HUMAN	35	5	5
PACN3_HUMAN	46	4	4
PB1_HUMAN	100	11	11
PCBP2_HUMAN	26	3	3
PDCD6_HUMAN	53	4	4

PELP1_HUMAN	38	5	5
PHF5A_HUMAN	62	3	3
PININ_HUMAN	23	9	9
PLAK_HUMAN	149	20	20
PLEC_HUMAN	101	27	27
PPB1_HUMAN	29	5	5
PPBN_HUMAN	29	5	5
PPIB_HUMAN	26	4	4
PR40A_HUMAN	32	6	6
PRKDC_HUMAN	56	23	23
PRP19_HUMAN	33	6	5
PRP31_HUMAN	44	3	3
PRP6_HUMAN	105	14	14
PRP8_HUMAN	153	46	46
PRPF3_HUMAN	32	2	2
PSPC1_HUMAN	74	9	7
QCR2_HUMAN	39	3	3
RAGP1_HUMAN	22	3	3
RBBP4_HUMAN	38	9	5
RBBP7_HUMAN	38	5	1
RBM10_HUMAN	95	8	8
RBM14_HUMAN	64	5	5
RBM25_HUMAN	31	5	5
RBM4_HUMAN	33	3	3
RBP56_HUMAN	34	4	1
REQU_HUMAN	143	9	9
RIF1_HUMAN	31	6	6
RIOX1_HUMAN	30	3	3
RL12_HUMAN	57	3	3
RL40_HUMAN	34	5	5
RLA0_HUMAN	44	11	11
ROA1_HUMAN	101	11	9
ROA3_HUMAN	180	11	9
ROAA_HUMAN	65	7	6
RPB1_HUMAN	65	11	11
RPB2_HUMAN	37	5	5
RPN1_HUMAN	62	9	9
RPN2_HUMAN	59	5	5
RS12_HUMAN	24	2	2
RS27A_HUMAN	34	5	5
RSSA_HUMAN	74	6	6
RTCB_HUMAN	24	4	4
RUSC1_HUMAN	30	2	2
RUVB1_HUMAN	70	11	11
RUVB2_HUMAN	41	8	8
S10A8_HUMAN	21	3	3

SAFB1_HUMAN	69	5	3
SAFB2_HUMAN	55	4	2
SEM5B_HUMAN	24	2	2
SF01_HUMAN	42	5	5
SF3A1_HUMAN	79	9	9
SF3A3_HUMAN	36	6	6
SF3B1_HUMAN	172	33	33
SF3B2_HUMAN	136	19	19
SF3B3_HUMAN	128	19	19
SIN3A_HUMAN	47	2	2
SMC1A_HUMAN	38	10	10
SMCA2_HUMAN	674	59	31
SMCA4_HUMAN	1034	68	40
SMCE1_HUMAN	237	20	20
SMRC1_HUMAN	458	44	32
SMRC2_HUMAN	457	46	34
SMRD1_HUMAN	277	26	20
SMRD2_HUMAN	149	24	19
SMRD3_HUMAN	137	16	8
SMU1_HUMAN	20	3	3
SNF5_HUMAN	66	12	12
SNUT1_HUMAN	31	7	7
SPF45_HUMAN	24	8	8
SPTN1_HUMAN	159	19	19
SPTN4_HUMAN	30	3	2
SR140_HUMAN	112	21	21
SRRT_HUMAN	79	15	14
SRSF1_HUMAN	58	4	4
SRSF2_HUMAN	73	5	2
SRSF4_HUMAN	55	3	2
SRSF5_HUMAN	55	2	1
SSBP_HUMAN	31	2	2
STIM1_HUMAN	26	3	3
STRBP_HUMAN	50	3	1
SUGP2_HUMAN	28	5	5
SYF1_HUMAN	64	6	6
TBB4B_HUMAN	28	4	1
TBB5_HUMAN	28	4	1
TBL3_HUMAN	38	2	2
THOC1_HUMAN	276	23	23
THOC2_HUMAN	144	33	33
THOC3_HUMAN	25	6	6
THOC5_HUMAN	182	22	22
THOC6_HUMAN	52	7	6
THOC7_HUMAN	91	7	7
TIF1B_HUMAN	33	4	4

TOM22_HUMAN	65	2	2
TR150_HUMAN	24	2	2
U2AF2_HUMAN	73	4	4
U520_HUMAN	333	47	47
U5S1_HUMAN	94	23	23
UBB_HUMAN	34	5	5
UBC_HUMAN	34	5	5
WDR18_HUMAN	31	3	3
WWC3_HUMAN	21	2	2
XRN2_HUMAN	23	5	5
YBOX1_HUMAN	32	2	1
ZCH18_HUMAN	48	3	3
ZFR_HUMAN	29	4	4
ZN326_HUMAN	67	8	8
ZO1_HUMAN	29	2	2

**Table S6: List of hBRM interactors**

The table shows Mascot scores (Prot\_score), count of distinct sequences for each protein (prot\_sequences) and number of unique peptides for each protein (pep\_isunique). Proteins with at least two identified peptides, at least one unique peptide, a score above 20, and a score at least twice as high as in the negative control samples were considered positive and are included in the table.

Prot_acc	Prot_score	Prot_sequence	Pep_isunique
ACAD8_HUMAN	31	2	1
ACL6A_HUMAN	323	17	17
ACTA_HUMAN	46	5	1
ACTB_HUMAN	279	19	6
ACTG_HUMAN	279	19	6
ACTH_HUMAN	46	5	1
ADT2_HUMAN	35	6	1
ANXA9_HUMAN	31	2	1
ARI1A_HUMAN	373	41	38
ARI1B_HUMAN	197	38	35
ATPA_HUMAN	38	5	5
BASP1_HUMAN	33	4	4
BCL7B_HUMAN	31	3	3
BCL7C_HUMAN	30	3	3
C1QBP_HUMAN	58	3	3
CH60_HUMAN	28	2	2
CHD4_HUMAN	83	13	13
CLH1_HUMAN	21	2	2
DCA13_HUMAN	35	2	1
DDX17_HUMAN	96	9	5
DDX3X_HUMAN	49	4	3
DDX3Y_HUMAN	49	4	3
DDX5_HUMAN	81	5	1
DHX15_HUMAN	29	4	4
DHX9_HUMAN	216	23	23
DNHD1_HUMAN	31	3	2
DSC1_HUMAN	23	2	2
DSG1_HUMAN	77	4	4
EF1A1_HUMAN	34	2	2
EF1A2_HUMAN	34	2	2
EF1A3_HUMAN	34	2	2
EPIPL_HUMAN	24	4	4
F186A_HUMAN	29	3	3
FILA2_HUMAN	38	2	2
FUS_HUMAN	36	4	4
GRP75_HUMAN	64	4	4
H2B1B_HUMAN	58	2	2
H2B1C_HUMAN	58	2	2

H2B1D_HUMAN	58	2	2
H2B1H_HUMAN	58	2	2
H2B1J_HUMAN	58	2	2
H2B1K_HUMAN	58	2	2
H2B1L_HUMAN	58	2	2
H2B1N_HUMAN	58	2	2
H2B1O_HUMAN	58	2	2
H2B2E_HUMAN	58	2	2
H2B2F_HUMAN	58	2	2
H2B3B_HUMAN	58	2	2
H2BFS_HUMAN	58	2	2
HNRH2_HUMAN	76	12	5
HNRPD_HUMAN	31	4	3
HNRPF_HUMAN	102	10	8
HNRPL_HUMAN	66	5	5
HNRPM_HUMAN	349	20	20
HRG_HUMAN	30	2	2
IF4A3_HUMAN	21	3	3
LMNB1_HUMAN	71	7	6
LMO7_HUMAN	80	3	3
MATR3_HUMAN	193	17	17
NEST_HUMAN	28	2	2
NIPS1_HUMAN	27	2	2
PEPL_HUMAN	38	2	2
PERI_HUMAN	38	2	1
PLAK_HUMAN	51	2	2
PPB1_HUMAN	26	4	4
PPBN_HUMAN	26	4	4
PRDX1_HUMAN	26	2	1
PRDX2_HUMAN	26	3	2
RBM14_HUMAN	44	4	4
REQU_HUMAN	135	10	10
RL35A_HUMAN	25	2	2
RL40_HUMAN	22	3	3
ROA1_HUMAN	21	5	4
RS27A_HUMAN	22	3	3
RYR1_HUMAN	35	4	3
SF3B1_HUMAN	37	7	7
SF3B2_HUMAN	32	6	6
SMCA2_HUMAN	535	53	30
SMCA4_HUMAN	236	27	4
SMCE1_HUMAN	326	15	15
SMRC1_HUMAN	331	36	26
SMRC2_HUMAN	453	42	32
SMRD1_HUMAN	199	21	13
SMRD2_HUMAN	223	24	18

SMRD3_HUMAN	82	19	9
SNF5_HUMAN	90	13	13
SR140_HUMAN	27	3	3
SRSF1_HUMAN	32	2	2
SSXT_HUMAN	47	2	2
SYC2L_HUMAN	31	4	3
UBB_HUMAN	22	3	3
UBC_HUMAN	22	3	3
YBOX1_HUMAN	31	4	1
ZA2G_HUMAN	39	2	2



**Table S7: List of dBRM interactors**

The table shows Mascot scores (Prot\_score), count of distinct sequences for each protein (prot\_sequences) and number of unique peptides for each protein (pep\_isunique). Proteins with at least two identified peptides, at least one unique peptide, a score above 20, and a score at least twice as high as in the negative control samples were considered positive and are included in the table.

Prot_acc	Prot_score	Prot_sequence	Pep_isunique
1433E_DROME	157	6	4
1433Z_DROME	109	6	4
ACT1_DROME	312	15	4
ACT3_DROME	160	12	1
ACT5_DROME	160	12	1
ADT_DROME	142	13	13
AGO2_DROME	248	21	21
ANKHM_DROME	22	5	5
ANXB9_DROME	130	7	7
ARF1_DROME	57	2	2
AT5F1_DROME	20	2	2
ATP5H_DROME	25	2	2
ATPA_DROME	488	16	16
ATPB_DROME	556	19	19
ATPO_DROME	33	3	3
BIP_DROME	553	19	14
BRM_DROME	1058	37	37
C12E1_DROME	29	2	2
CALR_DROME	199	8	8
CANB_DROME	130	10	8
CARM1_DROME	44	3	3
CATA_DROME	39	5	5
CAZ_DROME	741	7	7
CH60_DROME	211	8	8
CLH_DROME	80	12	12
CMC_DROME	25	2	2
CO4A1_DROME	34	3	3
COPIA_DROME	213	10	10
CPR1_DROME	43	3	3
CPSF1_DROME	52	2	2
CPSF6_DROME	37	2	2
CSK2A_DROME	70	4	4
DCO_DROME	78	4	4
DDX17_DROME	205	13	12
DDX3_DROME	2847	41	40
DDX55_DROME	21	2	2
DDX6_DROME	25	3	3

DKC1_DROME	62	6	6
DOM_DROME	29	3	3
EF1A1_DROME	293	11	11
EF1G_DROME	71	9	9
ENO_DROME	76	4	4
FBRL_DROME	366	14	14
FKB39_DROME	48	3	3
FMR1_DROME	30	2	2
FUSIL_DROME	29	3	3
GAG17_DROME	90	7	7
GAG2_DROME	175	12	12
GALE_DROME	43	4	4
GAR1_DROME	113	7	7
GAWKY_DROME	123	8	8
GBLP_DROME	102	13	13
GLYR1_DROME	87	3	3
GYS_DROME	114	7	7
H2A_DROME	57	3	3
H2B_DROME	38	3	3
H4_DROME	55	4	4
HEMH_DROME	42	2	2
HRS_DROME	25	4	4
HSP68_DROME	111	5	3
HSP7D_DROME	384	19	13
HSP7E_DROME	370	19	19
HSP83_DROME	284	15	15
IF4A_DROME	31	6	6
ILF2_DROME	540	13	13
KPYK_DROME	67	2	2
L2CC_DROME	247	11	11
LAM0_DROME	77	8	8
LARK_DROME	88	9	9
LASP1_DROME	27	2	2
LIG_DROME	591	10	10
MLE_DROME	2228	67	67
NGLY1_DROME	22	2	2
NONA_DROME	531	20	14
OSA_DROME	165	16	13
OST48_DROME	78	4	4
PABP_DROME	850	26	26
PABP2_DROME	46	2	2
PDI_DROME	158	15	15
PP12_DROME	91	4	4
PRDX1_DROME	152	5	5
PROML_DROME	54	6	6
PRP39_DROME	270	18	18

R10AB_DROME	23	2	2
RAGP1_DROME	80	4	4
RB27C_DROME	4763	19	19
RB87F_DROME	3070	22	19
RB97D_DROME	181	13	13
RFA1_DROME	31	2	2
RL17_DROME	53	2	2
RL4_DROME	31	2	2
RLA0_DROME	124	5	5
RLA1_DROME	48	3	3
RLA2_DROME	28	2	2
ROA1_DROME	3555	21	18
RPA1_DROME	30	4	3
RPB1_DROME	1037	48	47
RPB2_DROME	686	41	41
RS3_DROME	34	3	3
RS3A_DROME	26	2	2
RS4_DROME	25	2	2
RSSA_DROME	61	4	1
RUVB1_DROME	44	3	3
RUVB2_DROME	37	2	2
SAYP_DROME	77	9	9
SDHA_DROME	167	12	12
SHEP_DROME	41	2	2
SQD_DROME	3229	12	12
SUDX_DROME	29	2	2
TBA1_DROME	211	12	12
TBA3_DROME	211	12	12
TBB1_DROME	157	8	8
TERA_DROME	41	4	4
TMEDA_DROME	33	2	2
TMTC4_DROME	22	3	3
TTF2_DROME	27	3	3
VATB_DROME	37	2	2
XRN2_DROME	422	20	20

**Table S8: List of proteins detected in negative control immunoprecipitations**

The table shows Mascot scores (Prot\_score), count of distinct sequences for each protein (prot\_sequences) and number of unique peptides for each protein (pep\_isunique). Proteins with at least two identified peptides, at least one unique peptide, and a score above 20 are included in the table.

Prot_acc	Prot_score	Prot_sequence	Pep_isunique
ACTB_HUMAN	94	14	5
ACTC_HUMAN	91	10	1
ACTG_HUMAN	94	14	5
ACTN1_HUMAN	52	11	1
ACTN4_HUMAN	98	19	10
ACTS_HUMAN	91	10	1
ALBU_HUMAN	59	5	5
ANXA2_HUMAN	65	10	10
CASPE_HUMAN	25	3	3
CNTP4_HUMAN	39	2	2
DCR1C_HUMAN	32	2	2
DDX17_HUMAN	38	4	4
DHX9_HUMAN	107	21	21
DSG1_HUMAN	35	5	5
G3P_HUMAN	33	7	7
GRP75_HUMAN	29	2	2
H2B1M_HUMAN	71	4	4
H4_HUMAN	21	3	3
HNRH1_HUMAN	78	6	4
HNRH3_HUMAN	35	5	5
HNRPF_HUMAN	50	3	1
HNRPK_HUMAN	53	6	6
HNRPL_HUMAN	30	5	5
HNRPM_HUMAN	78	8	8
HSP7C_HUMAN	26	7	2
LMNA_HUMAN	219	26	26
LMO7_HUMAN	28	8	8
MATR3_HUMAN	42	2	2
NONO_HUMAN	146	17	15
NPM_HUMAN	45	5	5
NUCL_HUMAN	28	3	3
OCRL_HUMAN	31	2	2
PIP_HUMAN	24	2	2
PTBP1_HUMAN	38	4	3
RC3H1_HUMAN	29	2	1
ROA2_HUMAN	92	12	12
ROA3_HUMAN	38	7	7
ROAA_HUMAN	24	3	3
SFPQ_HUMAN	184	12	10
SPTB2_HUMAN	75	11	11

SPTN1_HUMAN	26	12	12
VIME_HUMAN	61	13	12
ACT3_DROME	41	6	1
ACT4_DROME	41	6	1
ACT5_DROME	41	6	1
ACT6_DROME	41	6	1
ADT_DROME	38	6	6
ANXB9_DROME	20	2	2
ATPB_DROME	21	3	3
ATPG_DROME	66	8	8
BIP_DROME	127	6	2
CAZ_DROME	309	6	6
CH60_DROME	24	2	2
CLH_DROME	35	8	8
DDX3_DROME	780	32	32
EF1A1_DROME	34	6	6
GAG2_DROME	64	5	5
GNAQ_DROME	28	2	2
H4_DROME	20	2	2
HSP72_DROME	70	3	2
HSP73_DROME	70	3	2
HSP74_DROME	70	3	2
HSP75_DROME	70	3	2
HSP7D_DROME	86	6	2
HSP7E_DROME	24	5	5
HSP83_DROME	26	3	3
ILF2_DROME	106	6	6
L2CC_DROME	26	2	2
MLE_DROME	822	48	48
NH2L1_DROME	31	3	3
NONA_DROME	87	5	5
PABP_DROME	180	12	12
PRDX1_DROME	37	2	2
PRP39_DROME	23	5	5
RB27C_DROME	1134	14	14
RB87F_DROME	687	19	16
RBGPR_DROME	21	3	3
RL40_DROME	54	3	3
ROA1_DROME	721	18	15
RPB1_DROME	173	17	17
RPB2_DROME	119	16	16
RS27A_DROME	54	3	3
SQD_DROME	528	9	9
UBIQP_DROME	54	3	3
VDAC_DROME	72	3	3
XRN2_DROME	33	4	4

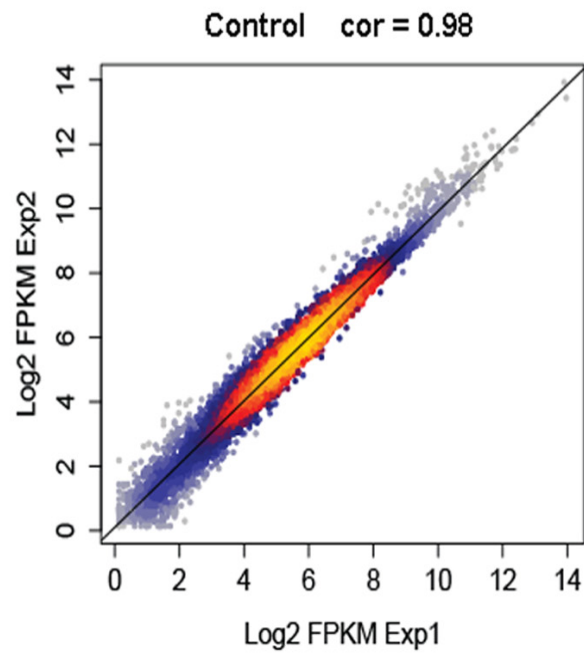
**Table S9. Expression of 3'-end processing factors analyzed by RNA-seq in dBRM-depleted S2 cells**

Complex	Factor	FlyBase ID	Expression levels*	
			Control	dBRM-kd
CPSF	CPSF1	FBgn0024698	24,63	26,02
	CPSF2	FBgn0027873	16,87	17,16
	CPSF3	FBgn0261065	23,62	21,1
	CPSF4	FBgn0015621	8,72	4,21
	WDR33	FBgn0046222	13,69	12,37
	FIP1L1	FBgn0037255	15,14	9,05
CSTF	CSTF1	FBgn0039867	8,68	7,22
	CSTF2	FBgn0027841	8,71	7,11
	CSTF3	FBgn0003559	40,06	37,95
CFIm	CFIm25	FBgn0035987	55,24	43,11
	CPSF6	FBgn0035872	28,74	22,1
CFIIm	Pcf11	FBgn0264962	ND**	ND
	Clp1	FBgn0033842	9,66	6,03
Others	PAP	FBgn0015949	79,85	78,18
	Sym	FBgn0037371	17,94	18,86
	PABP2	FBgn0005648	71,25	67,14

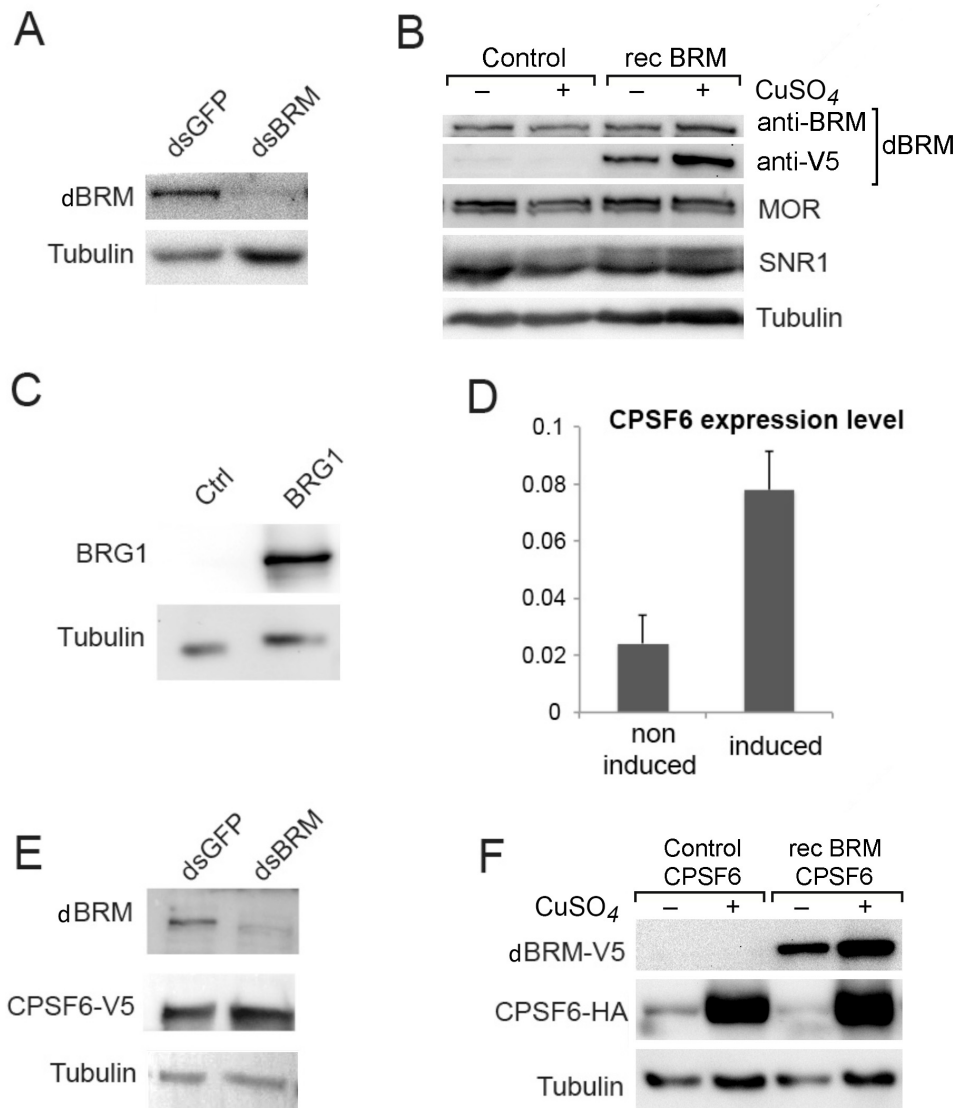
\* FPKM average calculated from two independent experiments.

\*\* ND, not detected.

## Additional Figures



**Figure S1.** RNA-seq experiments: Pearson's correlation analysis of two biological replicates.



**Figure S2.** Protein levels in RNAi and overexpression experiments

(A) S2 cells were treated by either dsGFP or dsBRM for 48 hours. Protein levels of SWI/SNF core subunits were assessed by Western blotting. The level of dBRM protein was reduced to  $28 \pm 7\%$  ( $n = 3$  independent RNAi experiments) as quantified by blot densitometry.

(B) Stably transfected S2 cells were treated with  $200 \mu\text{M}$   $\text{CuSO}_4$  for 24 h to induce the expression of recombinant BRM, and protein levels were assessed by Western blotting. After  $\text{CuSO}_4$  induction, the levels of dBRM protein were  $31 \pm 18\%$  higher in  $\text{CuSO}_4$ -induced cells than in control cells ( $n = 3$  independent overexpression experiments).

(C) C33A cells expressing hBRG1 or hBRG1 ATPase mutant were harvested 48 h after transfection. Cells transfected with pOPRSVI were used as control. Protein expression was monitored by Western blotting.

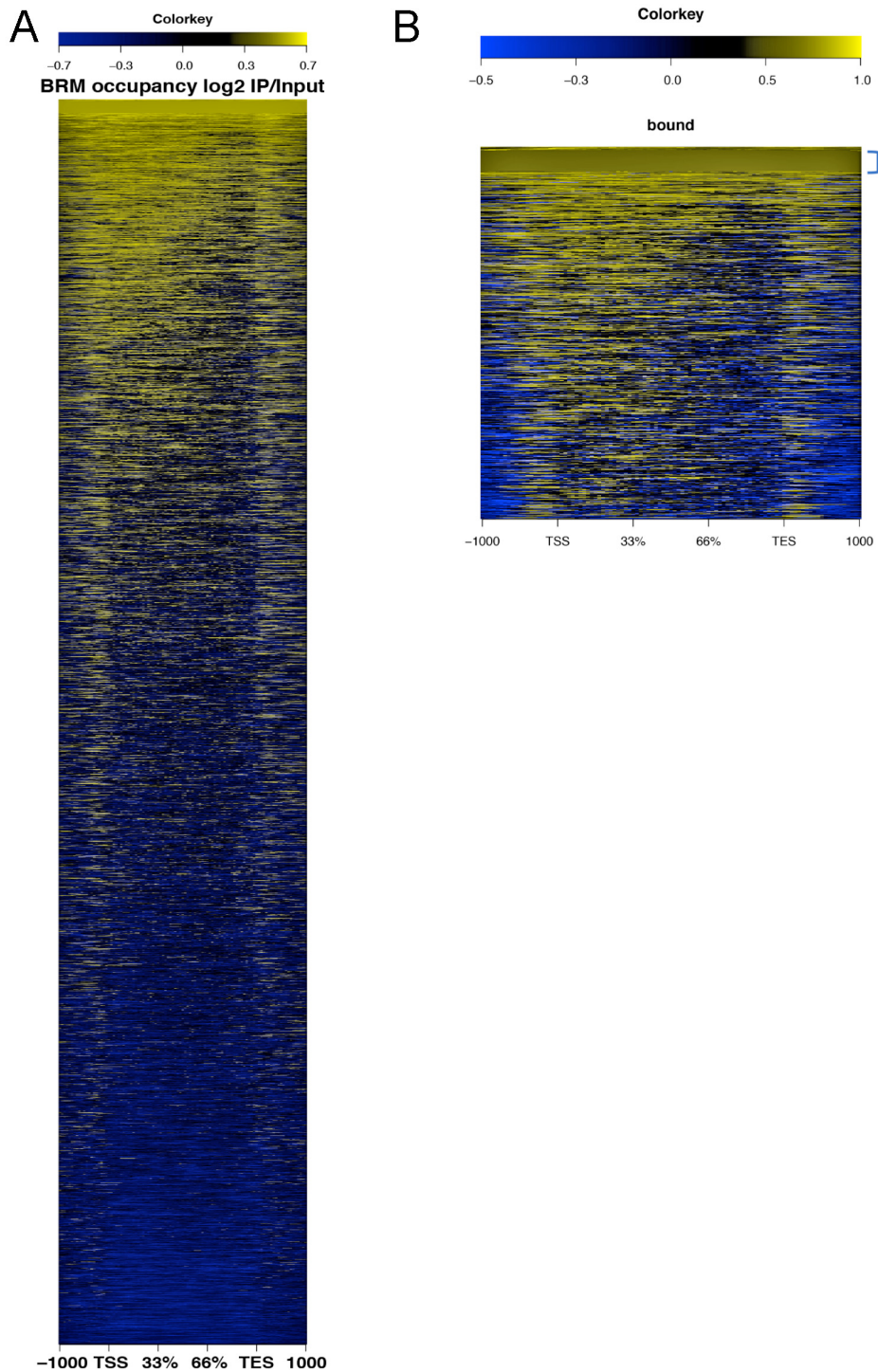
(D) S2 cells stably transfected with a plasmid for the expression of CPSF6-V5 were induced with  $200 \mu\text{M}$   $\text{CuSO}_4$  for 24 h. RNA levels were measured by RT-qPCR and normalized to *Act5C* mRNA. The levels of total *CPSF6* mRNA were 3 times higher



after induction. The overexpression of CPSF6-V5 could not be quantified at the protein level due to the lack of antibodies against endogenous CPSF6.

(E) S2 cells that expressed CPSF6-V5 were treated with dsRNA against dBRM or GFP for 48 h. The expression of CPSF6-V5 was induced with 200  $\mu\text{M}$   $\text{CuSO}_4$  for 24 h. Protein expression was analyzed by Western blotting with antibodies against hBRM, V5 and tubulin.

(F) Cells expressing only recBRM or recBRM and recCPSF6 were induced with 200  $\mu\text{M}$   $\text{CuSO}_4$  for 24 h. Protein expression was analyzed by Western blotting with antibodies against V5, HA and tubulin.

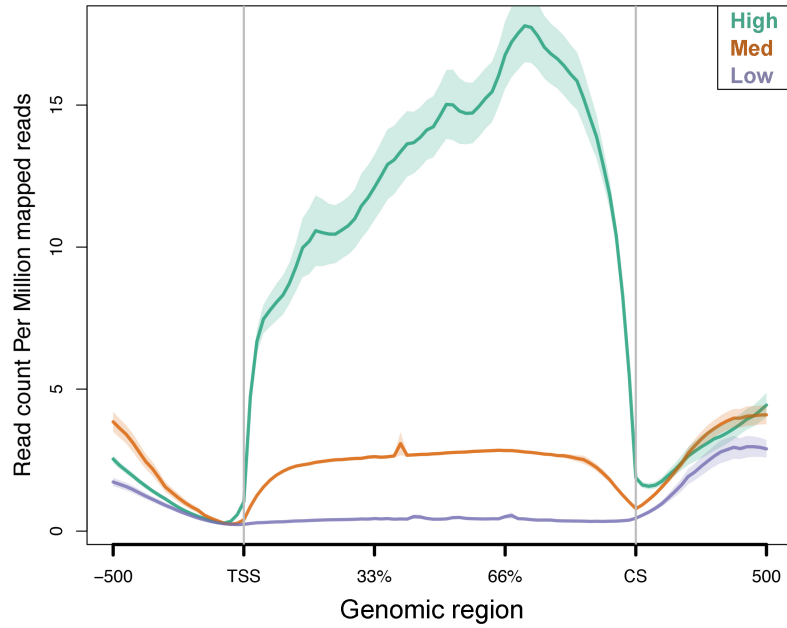


**Figure S3.** dBRM ChIP-seq in S2 cells

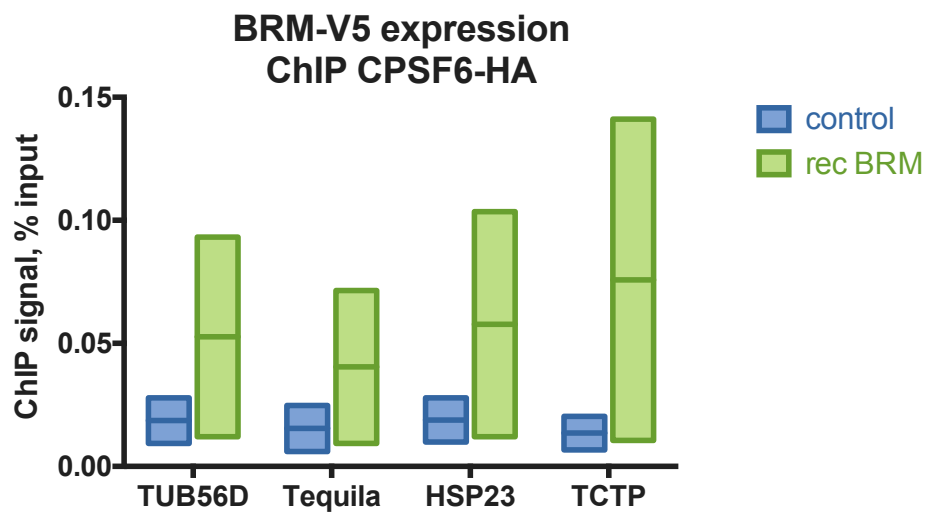
An antibody against the endogenous dBRM protein was used for ChIP-seq in S2 cells by Jordán-Pla et al. (BMC Genomics, 2018) and a set of 2521 dBRM-bound genes were identified.

(A) Heat map of dBRM ChIP-seq signals over a region that includes the gene body, 1000 bp upstream of the transcription start site (TSS), and 1000 bp downstream of the cleavage site (TES). The heat map includes all genes.

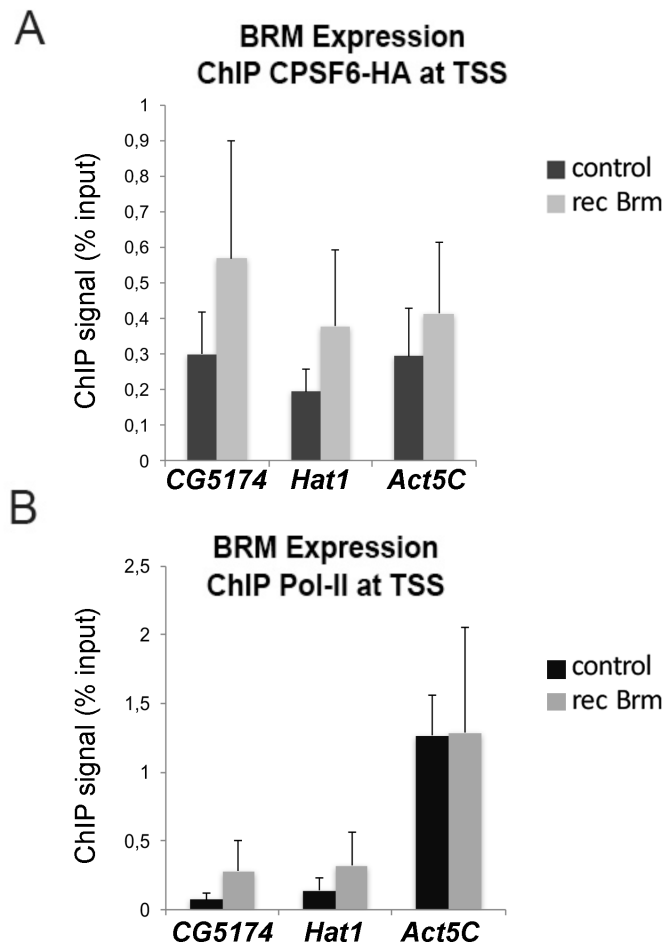
(B) Heat map including only the 2521 dBRM-bound genes. The bracket in B corresponds to a cluster of histone genes.



**Figure S4.** Metagenome analysis of RNA reads from S2 control cells (*dsGFP control*) over a genomic region that includes 500 bp upstream and 500 bp downstream of the gene body. The plot shows normalized read counts (Y-axis) in genes with high, middle and low expression levels, as indicated. Transcription start site (TSS), cleavage site (CS) are indicated in the X-axis.



**Figure S5.** The effect of dBRM depletion on the association of CPSF6 to the downstream region of four selected genes from Cluster 1. The plots show averages and standard deviations from two biological replicates.



**Figure S6.** CPSF6 and RNAPII occupancy at TSSs. (A-B) ChIP analysis was performed in S2 cells that expressed recBRM. The presence of CPSF (A) and Pol-II (B) at the transcription start region of the *CG5174*, *Hat1* and *Act5C* genes was analyzed by ChIP-qPCR. Antibodies against HA (for CPSF-HA) and Pol-II CTD were used. ChIP signals are represented as percentage of input. A one-sample t-test was used for statistical testing. None of the differences was significant.

## Additional Text

### Primer Sequences

#### For qPCR

Actin 2 F	GCACACCCACAAGCTTACACA
Actin 2 R	TTGCGCTTTGGGAAATATCTTC
CPSF6 F	ATGGCCGACGTGGTCTTGGA
CPSF6 R	GGACCGCCTATGTCATCGTA
CG5174 common 3UTR F	CGTTCCTAATCCGTTGAAA
CG5174 common 3UTR R	CAACAAATTGGGTGCGATT
CG5174 common 3UTR uncl R	TCCCAAACATCATTTATCAAAAAG
CG2051 3UTR F	AGTTGAGGGCCTCGTAGGTT
CG2051 3UTR R	GCAACATAATGTATTTTGTAAATCAACA
CG2051 3UTR uncl R	ACGTGCACACGGTAATCTGA
Actin 3UTR F	TCGACTTCGATATCATTTCTGC
Actin 3UTR R	TCAAGAATCAAAGGAGAAAGCAC
Actin 3UTR uncl R	GGTGCTACGAAATCCGTTGT
CG5174 5UTR 52 F	TCGAAAGCGAAAACGAAACT
CG5174 5UTR 213 R	ATTTTTCTTGCCCTGCTTT
CG2051 5UTR 67 F	GCTGCAAACACTTAACGGTCA
CG2051 5UTR 216 R	TTCGAGAGCATCAATCACAAA
Actin 5UTR 14 F	CCGTTTGAGTTCTTGCTG
Actin 5UTR 113 R	TTAAGTCTTTCGGTTTGGTGTC
GPRC5A common 3UTR F	GTGGGCATGGTCTCCTAATG
GPRC5A common 3UTR R	GCCACCACATCTTTATTGCATAC
GPRC5A 3UTR F	CCACTCTTTCATGGTGGTGG
GPRC5A 3UTR R	ACCCAAAGGAAGTGAACCTTG
CD44 common 3UTR F	CATTGTCAACGGAGAGCTGG
CD44 common 3UTR R	GCTGTGCTTCCAGAGTTACG
CD44 3UTR F	TGTATATTGCTGAGTTGAAAGCACT
CD44 3UTR R	CCAGACGGTGCCAGATAAG
SNX8 common 3UTRF	CTGAGAGGCTGCTTACTGCT
SNX8 common 3UTRR	TAGGCAAGGCCGTAATGACC
SNX8 3UTR F	TGACCTACATTTTGGACGGTTT
SNX8 3UTR R	CCCAGGTTGAACGCCTCATA
Actin $\gamma$ common 3UTRF	TGGCTTGGTCACTTCGTGG
Actin $\gamma$ common 3UTRR	AAAACAACCTGGTTCTTGCCAGC
Actin $\gamma$ 3UTR F	GGCTCCTGTTTGGGGAAGTAG
Actin $\gamma$ 3UTR R	TTAAGCCGTTTTCTCACCAGC

#### For Cloning CPSF6

CPSF6 cloning SpeI fw	GCACTAGTATGGCCGACGTGGTCTTGGA
CPSF6 cloning ApaI V5 rev	TATGGGCCCATGCCGGAACGGTGCTCCT
ApaI CPSF6 R+HA tag	
TATAGGGCCCTCAAGCGTAATCTGGAACATCGTATGGGTAATGCCGGAACGGTGCTCCT	

#### For synthesis of dsRNA

Brm BKNT7 F	taatacgaactcactatagggagaAAGCCCAATCGCATTACAAC
Brm BKNT7 R	taatacgaactcactatagggagaTGAAGTGTATCAGCCGCTTG
Brm HFAT7 F	TTAATACGACTCACTATAGGGAGAgtttcgctgtacaataacaatc
Brm HFA T7 R	TTAATACGACTCACTATAGGGAGAatgtggagcaggacttaag
GFP T7 F	taatacgaactcactatagggagaATGGTGAGCAAGGGCGAGGAGCTG
GFP T7 R	taatacgaactcactatagggagaGCGGTCACGAACTCCAGCAG

**For ATAC-qPCR**

Adapter F	AATGATACGGCGACCACCGAGATC
CG5174 R	TCTTGTGGCCTGAAGAAAAA
Hat1 R	AGTCCGTCTCTGCCGATG
TCTP 3'R	CAGACAATATCGCCGTTTCG
3UTR uncl R	GGTGCTACGAAATCCGTTGT
Hsp70 prom R	TTCGCGAACATTCGAGGCG