

Table S1. Antibodies used in this study

Target	Host	Source	Working dilution
DYRK1A	Mouse	Santa Cruz (RR.7; sc-100376)	WB (1:1000); IP (2.5 µg)
DYRK1A	Rabbit	Abcam (ab69811)	ChIP (10 µg)
eIF2 α	Rabbit	Cell Signaling (9722)	WB (1:1000)
eIF2 α -p (pSer51)	Rabbit	Cell Signaling (9721)	WB (1:1000)
eIF3A	Rabbit	Bethyl (A302-002A)	WB (1:200)
RNA polymerase II (Rpb1)	Rabbit	Cell Signaling (14958)	ChIP (10 µg)
p70-S6K	Rabbit	Cell Signaling (9202)	WB (1:1000)
p70-S6K-p (pThr389)	Rabbit	Cell Signaling (9205)	WB (1:1000)
RPL10A	Mouse	Abnova (3G2; H00004736-M01)	WB (1:1000)
RPS11	Rabbit	Abcam (ab175213)	WB (1:1000)
α -Tubulin	Mouse	Sigma (DM1A; T6199)	WB (1:10000)
Vinculin	Mouse	Sigma (hVIN-1; V9131)	WB (1:10000)
ZBTB33/KAISO	Mouse	Santa Cruz (6F8; sc-23871)	ChIP (10 µg)
Anti-Mouse-HRP	Rabbit	Dako (P0260)	WB (1:2000-10000)
Anti-Rabbit-HRP	Goat	Dako (P0448)	WB (1:2000)

ChIP: Chromatin immunoprecipitation; IP: immunoprecipitation; WB: Western blot

Table S2. ENCODE datasets used in the analysis of chromatin occupancy

Factor	Cell Line	Sample	Dataset
GABPA*	SK-N-SH	GSM1010739	GSE32465
GABPA*	HeLa	GSM803454	GSE32465
MYC	GM12868	GSM822290	GSE33213
SP1	GM12868	GSM803363	GSE32465
TAF1	K562	ENCFF101GBL	ENCSR000BKS
TBP	HeLa	GSM935606	GSE31477
TBP	GM12868	GSM935277	GSE31477
TBP	K562	GSM935495	GSE31477
TBPL1	K562	ENCFF167PVP	ENCSR783EPA
YY1	GM12868	GSM803406	GSE32465
YY1	SK-N-SH	GSM1010897	GSE32465
ZBED1	K562	ENCFF465PNK	ENCSR286PCG
ZNF281	HepG2	ENCFF948PYK	ENCSR403MJY

*, GABPA data has been used as a proxy for GABP chromatin occupancy

Table S3. Primers for ChIP-qPCR

Gene	Forward primer	Reverse primer
<i>RPS2</i>	CGAGACCTACTGGGAAGCAG	GGAGCCAATCACACAGGTTGTC
<i>RPS3A</i>	ATAACAGGGCAAAGGTCACG	TTTCGTAAGGCGCTTGTCT
<i>RPS5</i>	GCTGACCCGGAAGTTTTCTT	CACCTGAGAACACAGCCTGA
<i>RPS6</i>	CATCTTGAAGCAGCTGAACCG	CTCACTTCCGCTATCCCGTA
<i>RPS7</i>	GTTTCCGCCTCTTGTTCT	AAAAGTTCTGTCTGGAGAGCAG
<i>RPS9</i>	AAACAGAGAGGGTGGTTGA	CCACAACCTACGCCAAAACCT
<i>RPS11</i>	GCTGAAGGCTGGTCACATCT	GGGCACTGTGAAGGACTGAC
<i>RPS15A</i>	GGAGAGCGCACGGAGTTAT	CCTTCCCTCACCCCTCGT
<i>RPS19</i>	AACTTTTCGCCCTGAGAGAGG	CAGGGGAAAGGGAACGAC
<i>RPL4</i>	CCTTTTTGCGGAATAATCCAT	TCTTCAACTTCCGTCTGCAA
<i>RPL7A</i>	CCGCCTCGATTTTCTAGCTTT	CGGGAGGAGAGAGAAAGGAA
<i>RPL10</i>	GCAAGCTCAGGGACACTCTC	CTTGGGCGTAGAACTCTTGC
<i>RPL10A</i>	CAACCGCTCTGCGGGTAG	GCGCTAACCGGAAAAGAGAC
<i>RPL12</i>	GCGGACAAGCCAGATATAGG	CTGCCCACAACAAACATGG
<i>RPL17</i>	AGGCTGCTTAGGGAAAGAGG	TGCCTCCTCAGATTCGTTT
<i>RPL18</i>	GGGCGTTTCCTTATCAGGTT	GATCATCTCGGGTTAGAGCCTT
<i>RPL23</i>	ACCAGGGCCTAATCCAGTCT	GGAGAGTTGAGATGGCAGGA
<i>RPL26</i>	CCGCAAAAGGGAAGAGAACT	CAGTTTACTCCCCTCGCTCA
<i>RPL27A</i>	GGATCACCAACCCTCAGAAAG	CCTCACTTCCGGTCACAGAG

Table S4. Primers for RT-qPCR

Gene	Forward primer	Reverse primer
<i>Act42a^a</i>	GCGTCGGTCAATTCAATCTT	AAGCTGCAACCTCTTCGTCA
<i>DYRK1A</i>	CCTTGATAGGCAAAGGTTCC	CGCACTTCTATCTGTGCTTG
<i>EIF4E2</i>	ATGATGACAGTGGGGACCAT	GTTGTACTGCAGGGGATGCT
<i>RPS2</i>	AAGATCAAGTCCCTGGAGGA	TGCTTCTGCACTGGCATAAT
<i>RPS6</i>	AGAAGATGATGTCCGCCAGT	CTGCAGGACACGTGGAGTAA
<i>RPS15A</i>	AACCTCACAGGCAGGCTAAA	CGGGATGGAAGCAGATTATT
<i>RPS19</i>	CAAAGAGCTTGCTCCCTACG	TTCTCTGACGTCCCCCATAG
<i>RPS24</i>	CGTGCGCGTTGATATGATT	GCGGATAGTTACGGTGTCTGT
<i>RPL7</i>	GGAACCATGGAGGGTGTAGA	TTTCTCAGGCGCTTGATCTT
<i>RPL7A</i>	AGAAGGCCAAGGGAAAGAAG	AGGTCTCTTTTGGGCTGGAT
<i>RPL14</i>	GTGCATGCAGCTCACTGATT	TTCAATCTTCTTGCCCATC
<i>RPL17</i>	GCTGCACATGCTTAAAAACG	GCGCATCTTAGGTGCTTTGT
<i>RPL21</i>	AGTTGTTCTTTGGCCACATA	GGTAACACTTGTGGGGCATT

<i>RPL26</i>	GGAAAAGGCTAATGGCACAA	TCCTTTCCTACTTGGCGAGA
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^a, primers targeting *Act42a* from *D. melanogaster*