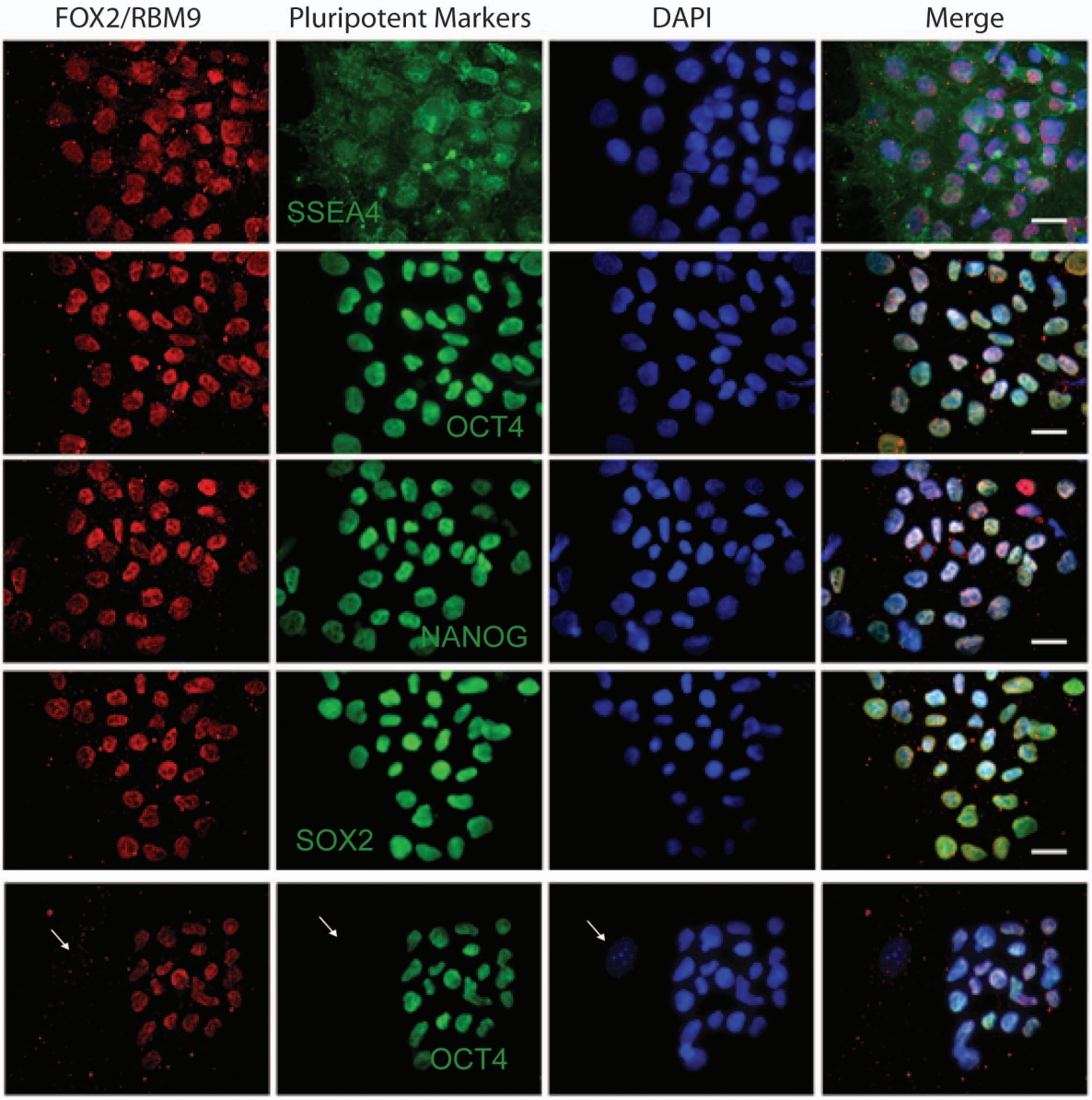
Supplementary Table 1. Gene Ontology categories of *Fox2* CLIP RNA targets.

Number of Fox2 targets	Percentage of Fox2 targets within GO category	Percentage of non-Fox2 targets within GO category	GO term	p-value
Molecular Function				
61	6.8	2.9	RNA binding (GO:0003723)	6.67E-09
8	0.8	0.1	ATP-dependent RNA helicase activity (GO:0004004)	2.82E-07
135	16.4	10.2	ATP binding (GO:0005524)	1.65E-06
34	3.7	1.5	actin binding (GO:0003779)	4.28E-06
7	0.7	0.1	ATP-dependent DNA helicase activity (GO:0004003)	7.18E-06
8	0.8	0.2	protein heterodimerization activity (GO:0046982)	5.67E-05
12	1.3	0.3	ubiquitin thiolesterase activity (GO:0004221)	7.31E-05
13	1.4	0.4	cysteine-type endopeptidase activity (GO:0004197)	1.46E-04
27	2.9	1.3	ligase activity (GO:0016874)	2.93E-04
47	5.1	2.9	protein serine/threonine kinase activity (GO:0004674)	3.37E-04
Cellular Component				
38	4.1	2.0	cytoskeleton (GO:0005856)	5.96E-05
5	0.5	0.1	heterogeneous nuclear ribonucleoprotein complex (GO:0030530)	4.58E-04
Biological Process				
26	2.8	1.0	nuclear mRNA splicing, via spliceosome (GO:0000398)	6.83E-06
29	3.1	1.3	cell cycle (GO:0007049)	1.66E-05
37	4.0	1.9	ubiquitin cycle (GO:0006512)	7.67E-05

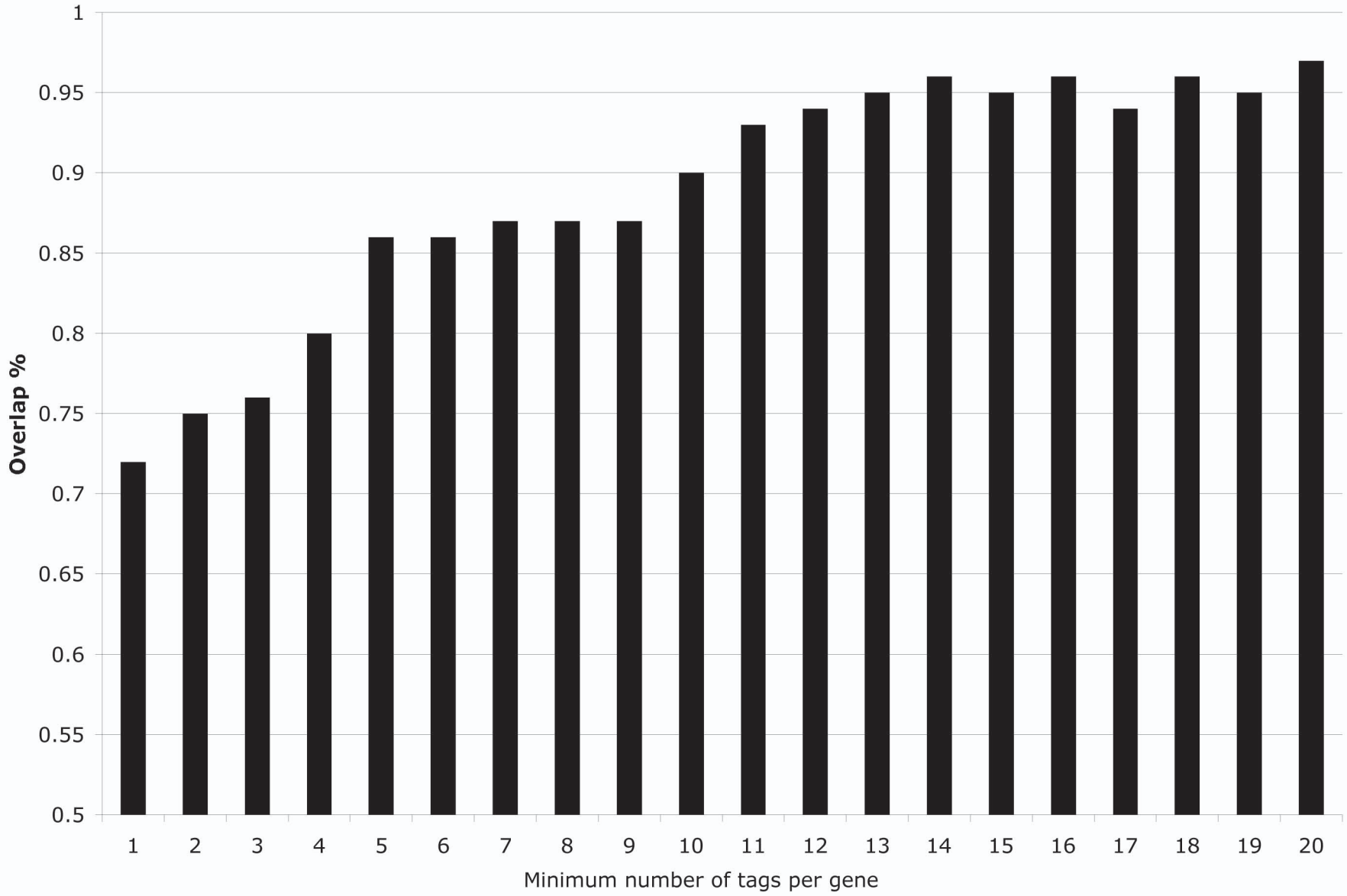
Supplementary Table 2

PRIMER ID	SEQUENCE	Tyle of Alternative splicing	RT-PCR validation of alt splicing
ECT2_FW(AY376439)	TTGGTTCAAGAAGCTGGAAAA	cassette	Yes
ECT2_RV(AY376439)	CAGAATCCTGAAAGTCCGTGA	cassette	Yes
ENAH_FW	TGCTTCAGCCTGTCATAGTCA	cassette	Yes
ENAH_RV	TGGCAGCAAGTCACCTGTTA	cassette	Yes
FGFR2-FW	CGGAGGAGACGTAGAGTTTG	cassette	Yes
FGFR2-RV1	TGGCCTGCCCTATATAATTGG	cassette	Yes
FGFR2-RV2	TCCCAATAGAATTACCCGCC	cassette	Yes
FGFR2-RV3	GAAGACCCCTATGCAGTAAATG	cassette	Yes
MAP3K7_FW	GGAGCAGTGTGGAGAGCTTG	cassette	Yes
MAP3K7_RV	TGACCAGGTTCTGTTCCAGTT	cassette	Yes
PARD3_FW	CCAGTTCTTGCTTTTCAACGA	cassette	Yes
PARD3_RV	TCCCCATTCAAAGTCACCTC	cassette	Yes
PICALM_FW	ATTCCATATCCTATCATGCCTGT	cassette	Yes
PICALM_RV	AATTGGAGTCAACCAGGTGAA	cassette	Yes
PTBP1-FW	AGAACATCTACAACGCCTGC	cassette	Yes
PTBP1-RV	TCTGGGTTGAGGTTGCTGAC	cassette	Yes
PTBP2-FW	AGCTGGTGGCAATACAGTC	cassette	Yes
PTBP2-RV	GCAAGTTGTGATTGGTTTCC	cassette	Yes
QK1-FW	GATCAGACAAATACAGACCGC	3'UTR	Yes
QK1-RV1	CACAGAAACAGTTTGTTCCAC	3'UTR	Yes
QK1-RV2	GGGTTCAGTTAAGACCGTTC	3'UTR	Yes
RBM9-FW	CCTGGCTTCCCTTACCCTAC	cassette	Yes
RBM9-RV	AGCAGGCTGTGCATATCTGT	cassette	Yes
RIMS2_FW	AGTGAGACCTCCACCACCAA	cassette	Yes
RIMS2_RV	GATGGTTGCCAGGTTACAGG	cassette	Yes
SFRS11_FW	GAGAAGCCTTTTCCGTTGC	3'UTR	Yes
SFRS11_RV1	CAGGGCACTTAAGAGAAACTGG	3'UTR	Yes
SFRS11_RV2	TGGGTTAGGAGTAGGCAGGA	3'UTR	Yes
SFRS6_FW	TTACGAGCTGAACGGCAAG	cassette	Yes
SFRS6_RV1	CGAACAGGTGGTCCGTATTT	cassette	Yes
SFRS6_RV2	ATAGGGCAAGGGTCACACAA	cassette	Yes
SLK_FW	TGAAGCCAAACGCATCAA	cassette	Yes
SLK_RV	TGCCTTCTGCTGCTGGAT	cassette	Yes
SPTBN1_FW	AGCACGAAGGTTTCAGAGGA	3'UTR	Yes
SPTBN1_RV1	ACTCGTGTTTCCGATTGAGG	3'UTR	Yes
SPTBN1_RV2	GGTGAAGTGGAAGCCAAAAA	3'UTR	Yes
SPTBN1_RV3	TGTCTCCCTCCTCATACACCA	3'UTR	Yes
TSC2_FW	CGGTCCAATGTCCTCTTGTC	cassette	Yes
TSC2_RV	TCCAGGTGGAGGTTTTTCAG	cassette	Yes
ZNF532_FW	TTGTGAACCTTGACCTTTTGG	cassette	Yes
ZNF532_RV	GCCTTGCTTCCTTCCACTC	cassette	Yes
CTNND1		cassette	No
KIAA0377		cassette	No
KIAA0433		cassette	No
NASP		cassette	No
TRA2A		cassette	No
UBE4B		cassette	No

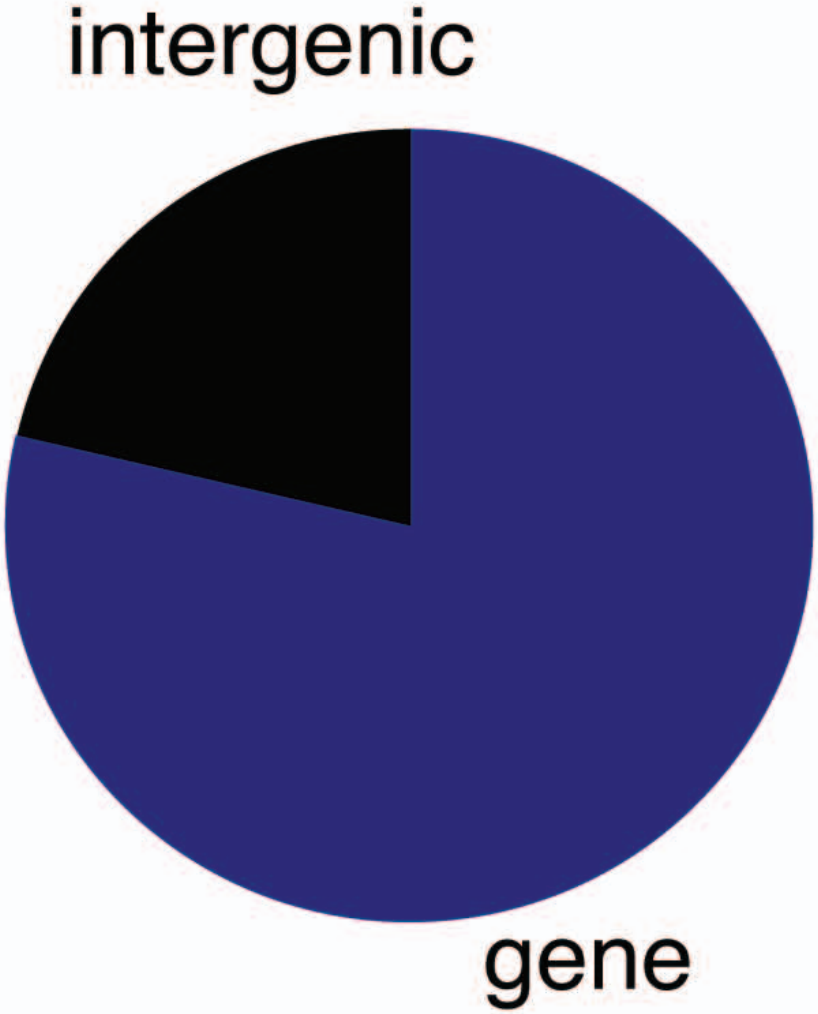
YEO_SUPPLEMENTARY_FIGURE_1

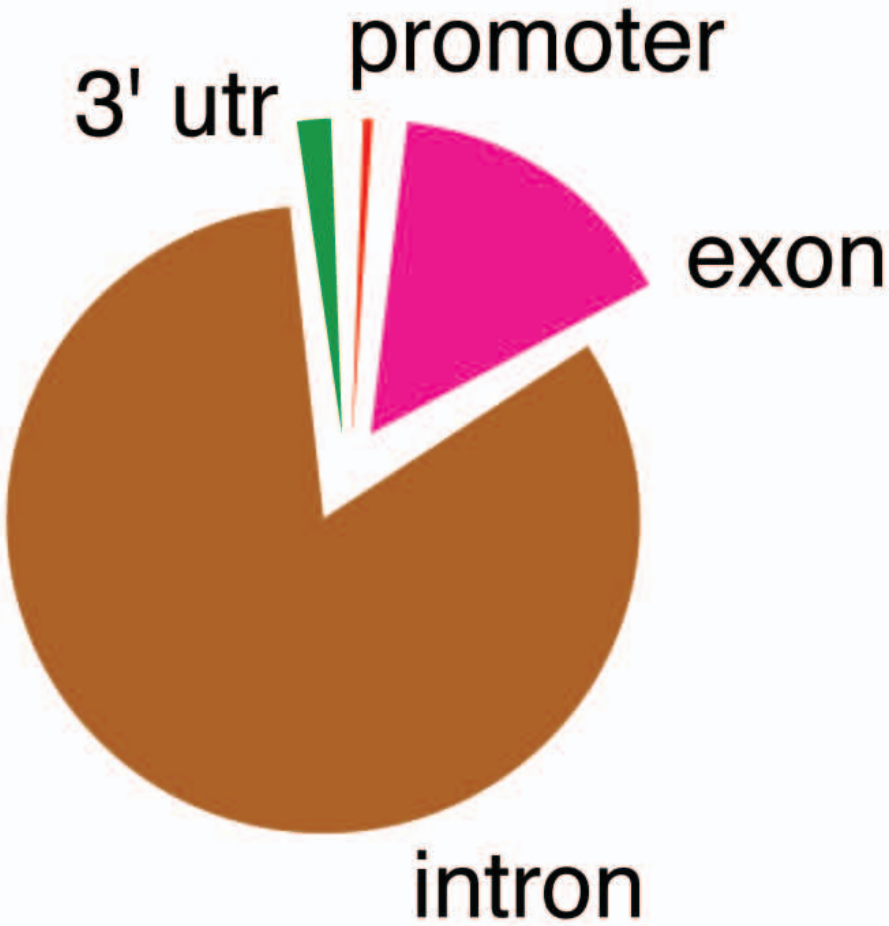


YEO_SUPPLEMENTARY_FIGURE_2

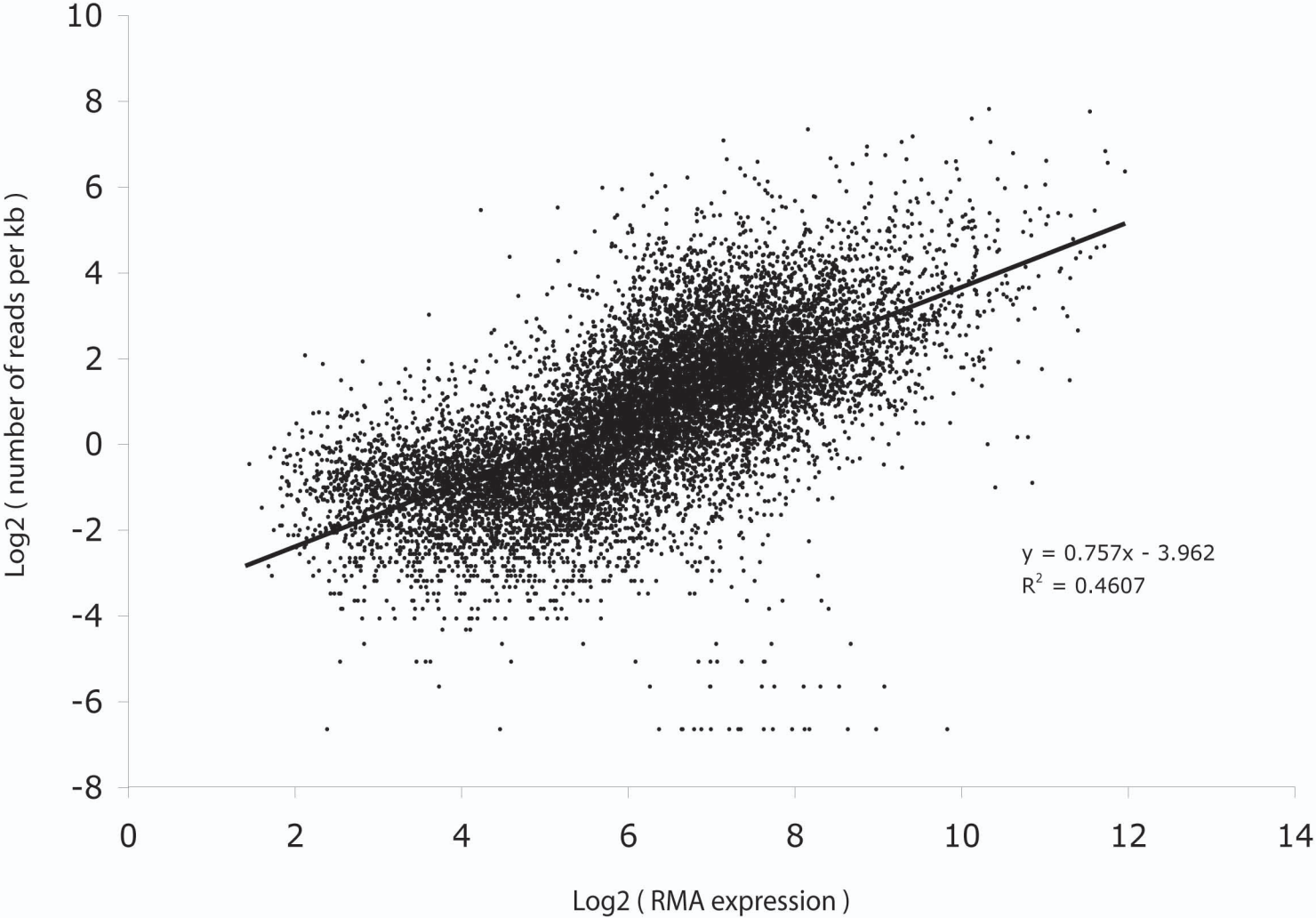


YEO_SUPPLEMENTARY_FIGURE_3

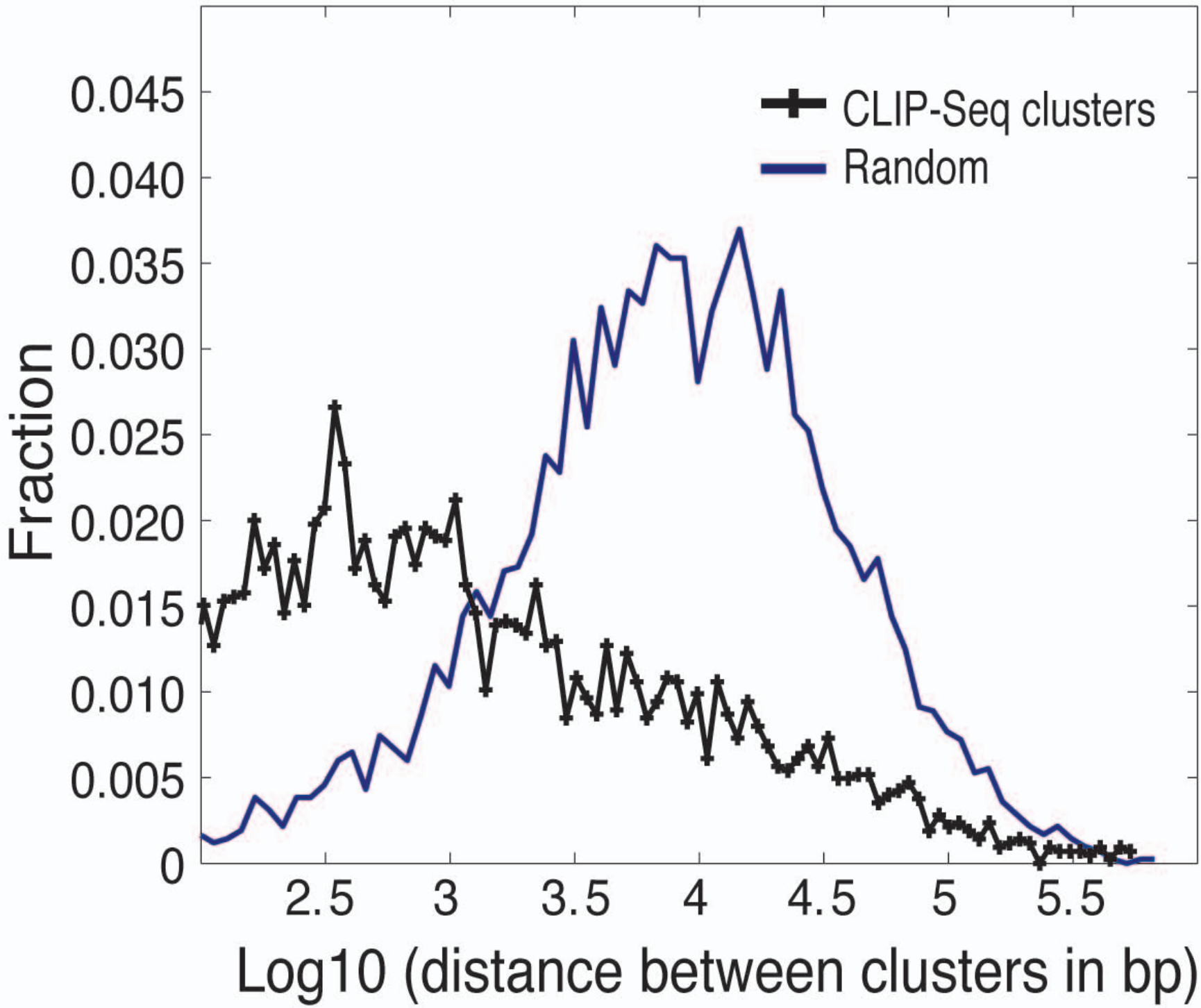




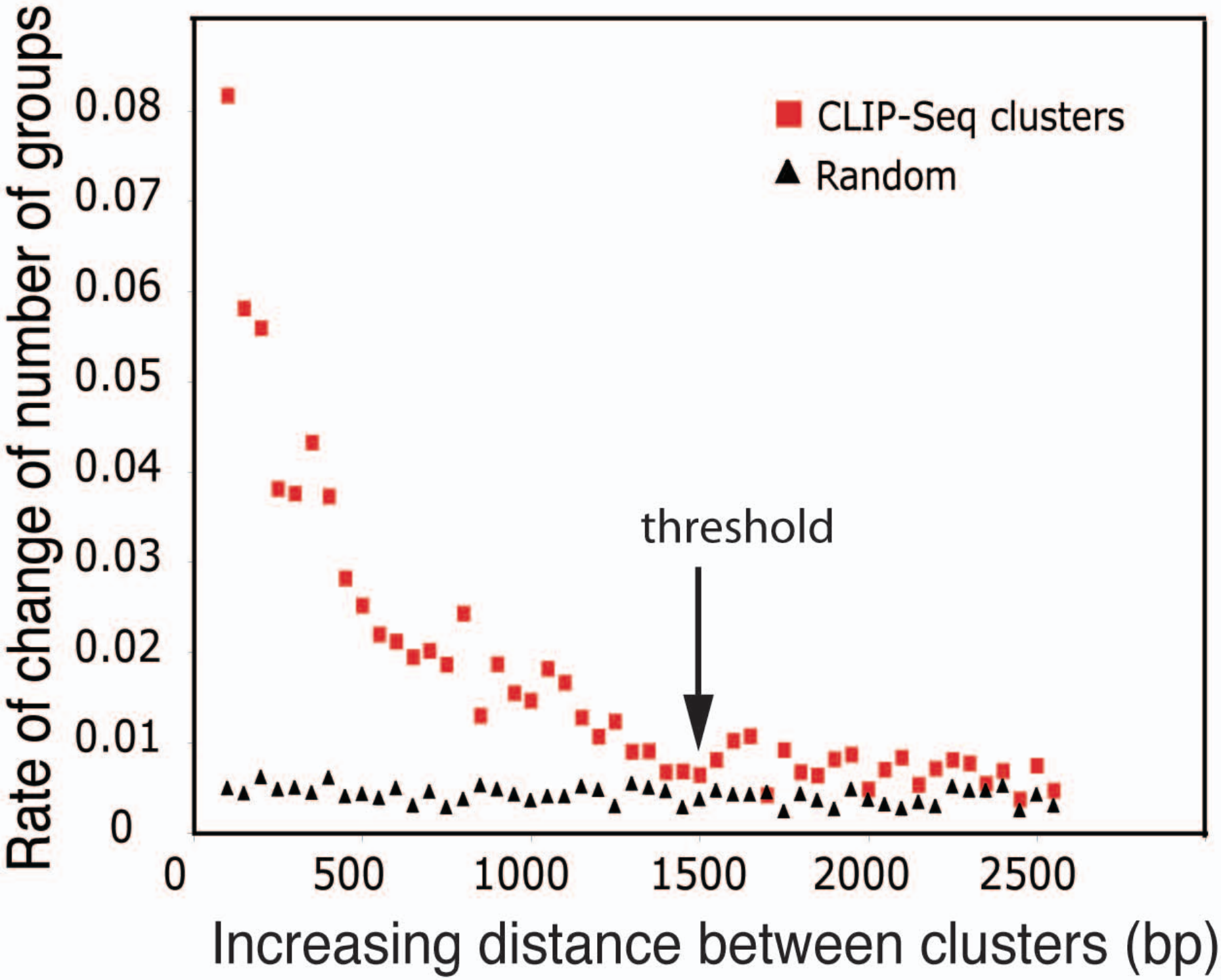
YEO_SUPPLEMENTARY_FIGURE_4



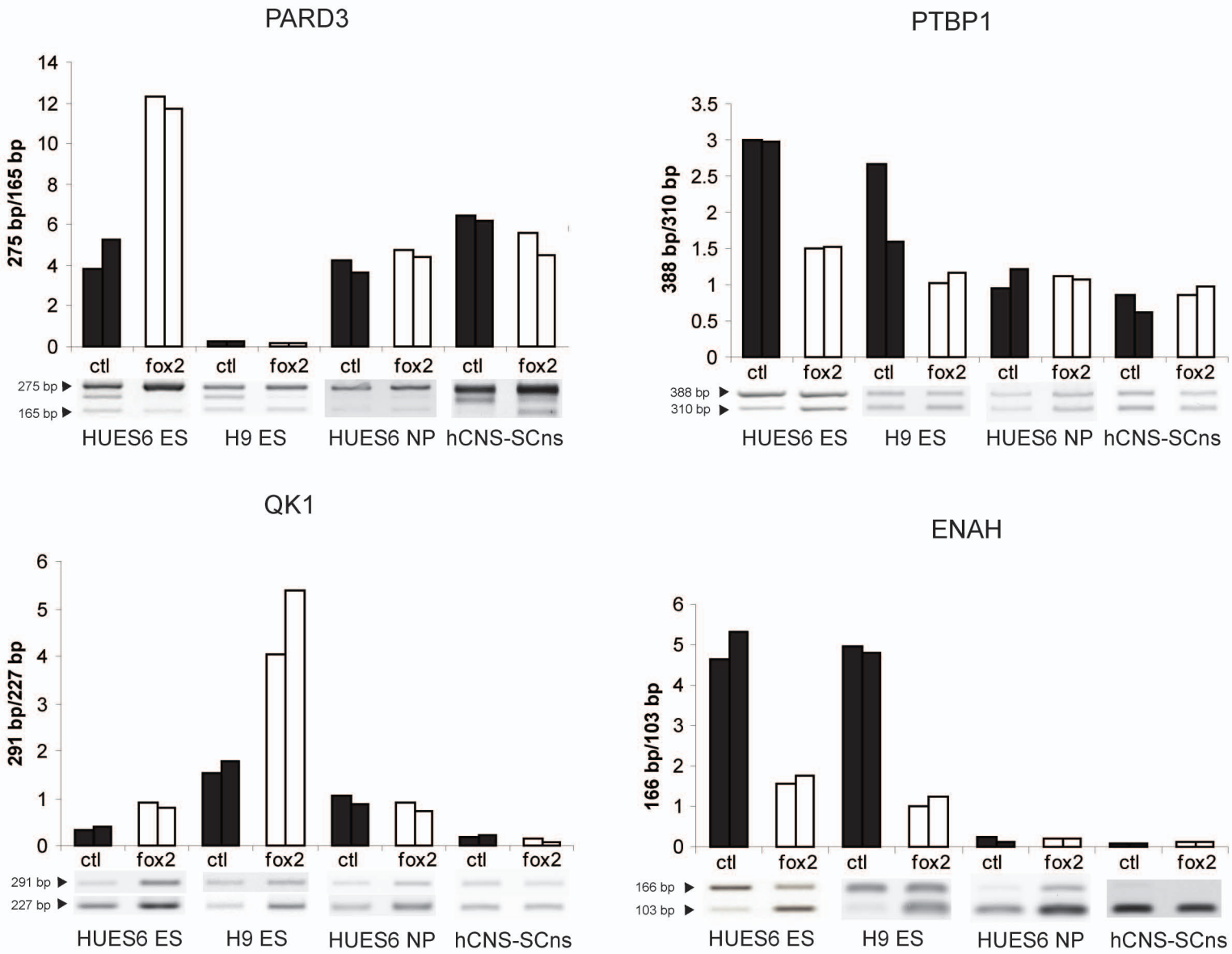
YEO_SUPPLEMENTARY_FIGURE_5



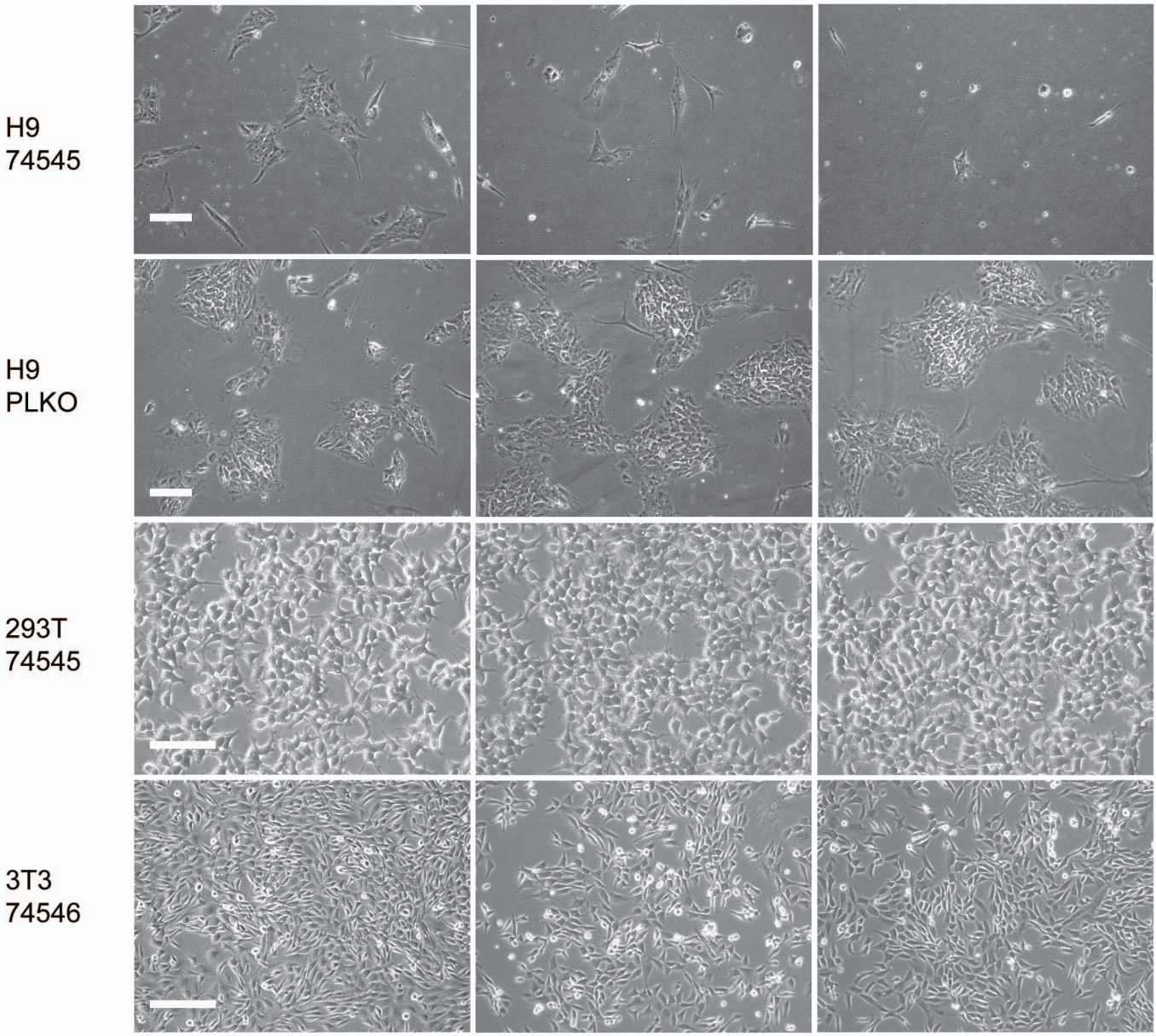
YEO_SUPPLEMENTARY_FIGURE_6

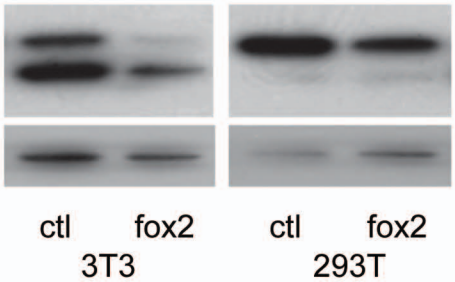


YEO_SUPPLEMENTARY_FIGURE_7

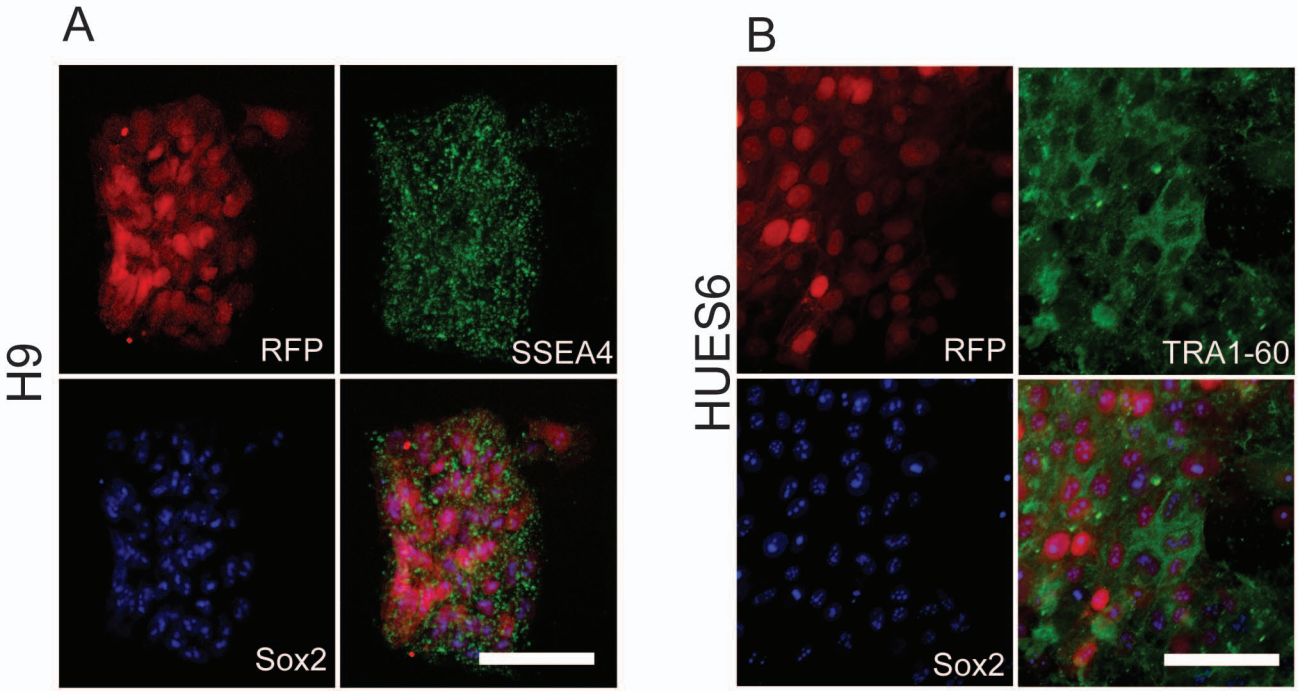


YEO_SUPPLEMENTARY_FIGURE_8

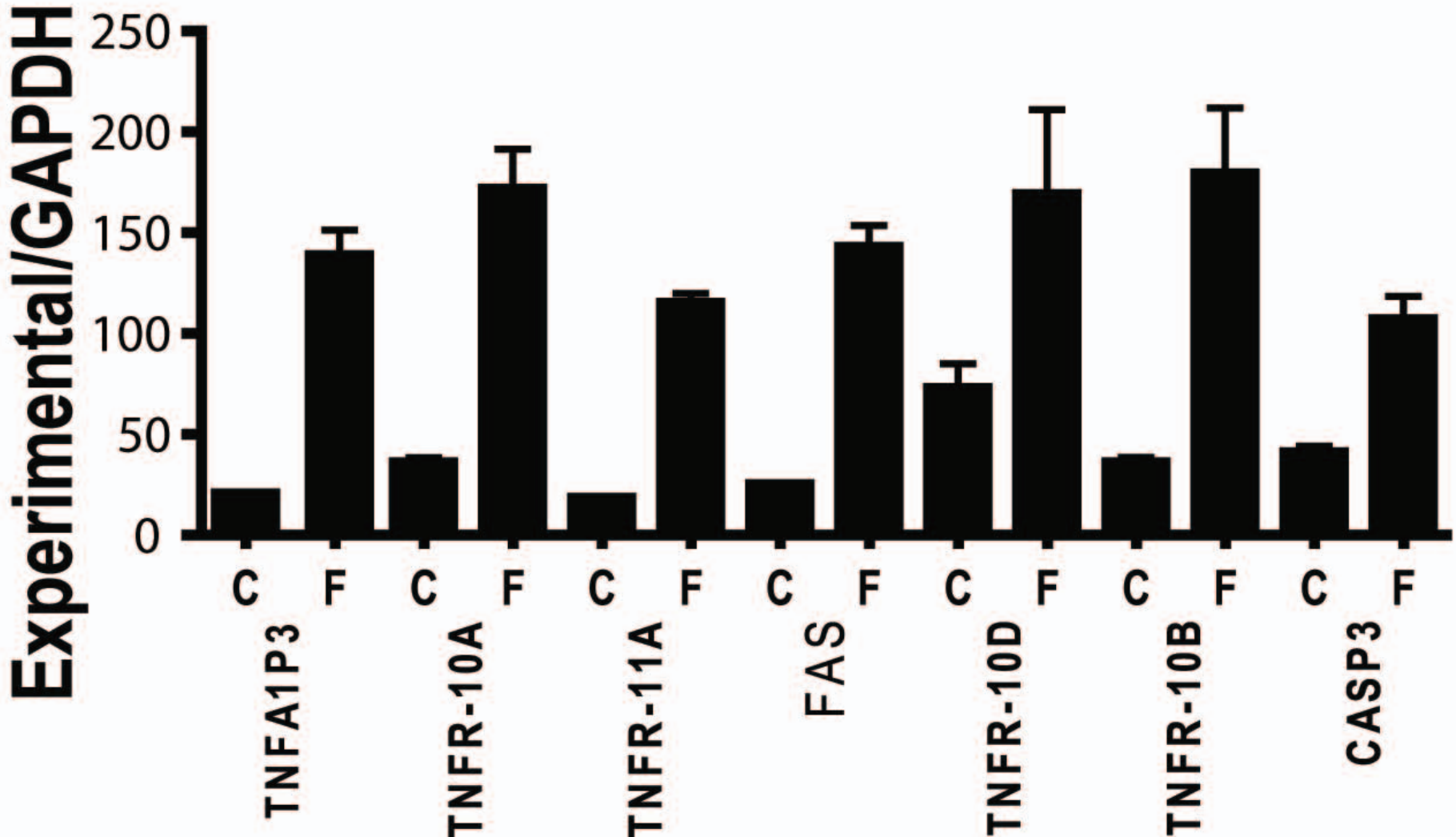




YEO_SUPPLEMENTARY_FIGURE_9

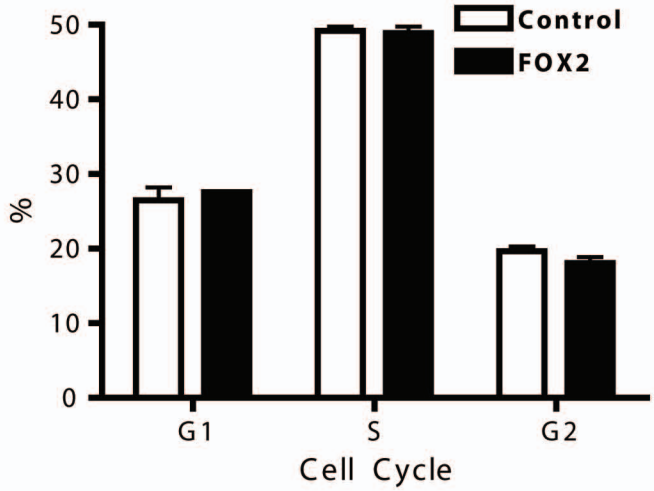


YEO_SUPPLEMENTARY_FIGURE_10

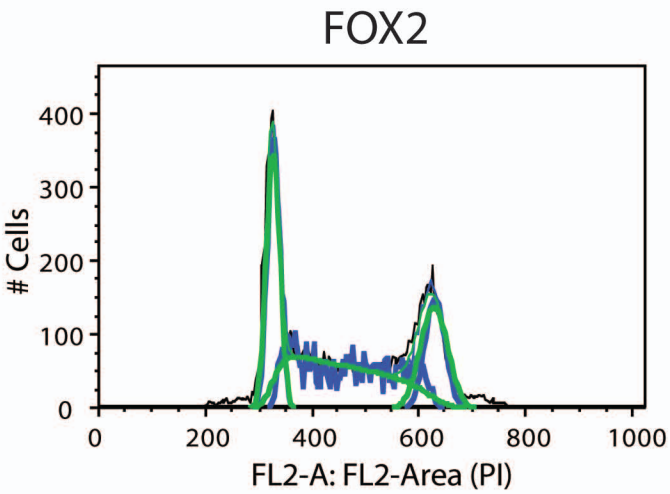


YEO_SUPPLEMENTARY_FIGURE_11

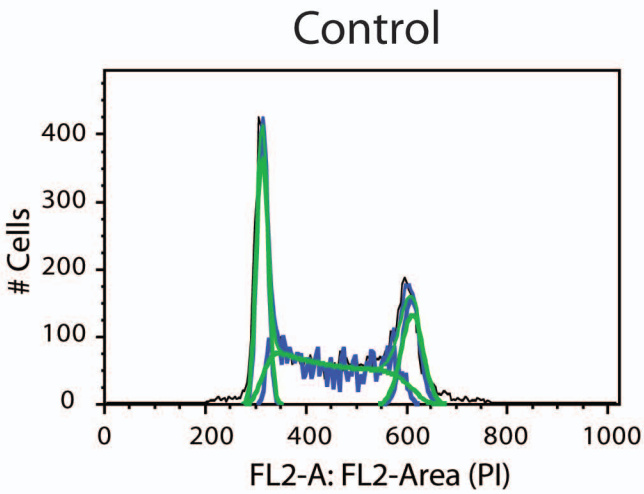
A



B



Watson Pragmatic: %G1 = 27.9; %S = 47.8; %G2 = 18.6.
Dean/Jett/Fox: %G1 = 28.2; %S = 44.4; %G2 = 23.5.
Cell Cycle
HUES6 ES Fox2 5ul #1
Event Count: 10000



Watson Pragmatic: %G1 = 27.2; %S = 48.3; %G2 = 19.
Dean/Jett/Fox: %G1 = 27.3; %S = 49; %G2 = 20.2.
Cell Cycle
HUES6 ES control 5ul #1
Event Count: 10000