

Table S5. Oligonucleotides used in the work

Name	Sequence (5'-3')	Description
PSMB5pr for	CGATTCCTGGCTCTTCTGGG	PSMB5 promoter region
PSMB5pr rev	AGGTCCAGGGAGTCTCAGTG	
PSMB5g for	ACATACCACCCCATCTCACC	Non-promoter intragenic region of PSMB5
PSMB5g rev	GCTTGAAACCTAAGTCATTTGGA	
PSMB2pr for	ACCTCAGAGCGAAGATTGGC	PSMB2 promoter region
PSMB2pr rev	ACTGAACATAAGGCACCCGG	
PSMB2o for	TGTGTCCAGAGTGCCTTTCA	Non-promoter intergenic region of PSMB5 locus
PSMB2o rev	TCAGGGCAGCAACTGTGTAG	
PSMB2g2 for	TGCCAGACCACCACTACAAA	Non-promoter intragenic region of PSMB2
PSMB2g2 rev	GGGAAAACCTCCCTAGCAAA	
COPZ1pr for	GAACGTATGGCCAATCAGCG	COPZ1 promoter region
COPZ1pr rev	ACCAAAATCAGCGCCTCCAT	
COPZ1g for	CCGTCAGTTCTTCCCGAGT	Non-promoter intragenic region of COPZ1
COPZ1g rev	AGATTCAAAAAGCACAGCTCA	
oligo 1	CTCGAGGACTTC	Adapter oligos. Adapter contains library primer annealing region and XhoI restriction site for cloning ChIP DNA
oligo 2	GCTGAGGTCGACTATCGTAGAAGTCCTCGAGT	
Library Primer	GCTGAGGTCGACTATCGTAGAAGT	Library Primer are used for PCR amplification ChIP DNA fragments with adapters on the ends
P1	CAGGAAACACGTATGAC	Inner Forward primer (nested PCR)
P2	GTAAAACGACGGCCAG	Inner Reverse primer (nested PCR)
P3	GTAAAACGACGGCCAG	Outer Forward primer (nested PCR)
P4	GTAAAACGACGGCCAG	Outer Reverse primer (nested PCR)
R1M15f	TCGTCGGCAGCGTCAGATGTGTATAAAGAGACA GGTAAAACGACGGCCAGGC	PCR rescue
R2M15r	GTCTCGTGGGCTCGGAGATGTGTATAAAGAGAC AGCAGGAAACACGTATGACCT	PCR rescue
P5S502	AATGATACGGCGACCACCGAGATCTACACCTC TCTATTTCGTCGGCAGCGTC	PCR rescue
P7N70X	CAAGCAGAAGACGGCATACGAGAT[i7]GTCTCG TGGGCTCGG	PCR rescue