PQS sequences of different topologies associated with functional sites

Topology		XPD	XPB	MCF7_ORI	K562_ORI	hf2	upstream1000	
PQS by topology and AAAA	374834	4338	5809	36594	17533	2174	34903	
AABB	69198	1058	1417			102	5468	
ABAA	142890	2385	3179			246	13149	
ABAB	55735	881	1227			65	4708	
ABBA	96163	1838	2445			165	8914	
ABBB	152329	2768	3679			289	15371	
BAAA	150294	2806	3684			256	16388	
BABA	49558	913	1263			89	4944	
BABB	128404	2417	3268			267	13494	
BBAA	53364	1045	1397			91	5697	
DDAA	55504	1045	1397	50/5	1020	91	5097	
ALL	1272769	20449	27368	145529	55946	3744	123036	
interstrand	897935	16111	21559	108935	38413	1570	88133	
Fraction of all guadru	inloves [04]							
Fraction of all quadru		21 210/	21 220/	<b>25</b> 150/	21 240/	EQ 070/	20.270/	
AAAA	29.45%	21.21%	21.23%			58.07%	28.37%	
AABB	5.44%	5.17%	5.18%			2.72%	4.44%	
ABAA	11.23%	11.66%	11.62%			6.57%	10.69%	
ABAB	4.38%	4.31%	4.48%			1.74%	3.83%	
ABBA	7.56%	8.99%	8.93%			4.41%	7.25%	
ABBB	11.97%	13.54%	13.44%			7.72%	12.49%	
BAAA	11.81%	13.72%	13.46%			6.84%	13.32%	
BABA	3.89%	4.46%	4.61%			2.38%	4.02%	
BABB	10.09%	11.82%	11.94%			7.13%	10.97%	
BBAA	4.19%	5.11%	5.10%	4.04%	3.25%	2.43%	4.63%	
Fraction of all PQS ir	n functional cate	egories, com	pared to g	enome-wide fr	actions			
AAAA	100.00%	72.03%	72.07%			197.17%	96.33%	
AABB	100.00%	95.16%	95.23%			50.11%	81.74%	
ABAA	100.00%	103.89%				58.53%	95.19%	
ABAB	100.00%		102.38%			39.65%	87.38%	
ABBA	100.00%	118.96%				58.33%	95.89%	
ABBB	100.00%	113.10%				64.50%	104.38%	
BAAA	100.00%	116.20%				57.90%	112.80%	
BABA	100.00%	114.67%				61.05%	103.20%	
BABB	100.00%	117.16%				70.69%	108.71%	
BBAA	100.00%	121.88%				57.97%	110.44%	

Fraction of Interstran	d [%]												
AABB	7.71%	6.57%	6.57%	6.33%	5.64%	6.50%	6.20%						
ABAA	15.91%	14.80%		15.55%	16.41%	15.67%	14.92%						
ABAB	6.21%	5.47%	5.69%	5.52%	5.15%	4.14%	5.34%						
ABBA	10.71%	11.41%	11.34%	10.04%	9.16%	10.51%	10.11%						
ABBB	16.96%	17.18%	17.06%	18.49%	19.11%	18.41%	17.44%						
BAAA	16.74%	17.42%	17.09%	17.49%	18.21%	16.31%	18.59%						
BABA	5.52%	5.67%		5.31%	4.69%	5.67%	5.61%						
BABB	14.30%	15.00%		15.90%	16.90%		15.31%						
BBAA	5.94%	6.49%		5.39%	4.74%	5.80%	6.46%						
Fraction of interstrand G4s in functional categories, compared to genome-wide fractions													
AABB	100.00%	85.21%	85.29%	82.10%	73.20%	84.30%	80.51%						
ABAA	100.00%	93.03%	92.66%	97.70%	103.11%	98.46%	93.76%						
ABAB	100.00%	88.10%	91.69%	88.85%	82.96%	66.70%	86.06%						
ABBA	100.00%	106.53%	105.90%	93.76%	85.52%	98.13%	94.44%						
ABBB	100.00%	101.28%	100.59%	108.98%	112.64%	108.51%	102.81%						
BAAA	100.00%	104.06%	102.09%	104.47%	108.78%	97.42%	111.09%						
BABA		102.68%		96.15%	85.00%	102.71%	101.64%						
BABB	100.00%	104.91%		111.16%		118.93%	107.07%						
BBAA	100.00%			90.75%	79.72%	97.53%	108.77%						
Estimated significance	e of enrichmen	t wrt genom	e-wide ratios	s (expressed i	n standard d	eviations) –	all PQS						
AAAA		-18.4		-28.0	8.5	45.3	-6.9						
AABB		-1.6	-1.8	-10.7	-13.4	-5.0	-13.5						
ABAA		1.9		4.8	0.3		-5.5						
ABAB		-0.5	0.8	-4.4	-8.6		-8.7						
ABBA		8.1		-0.5	-9.9	-5.4	-3.9						
ABBB		6.9	7.5	22.2	8.2	-6.0	5.4						
BAAA		8.6	8.5	15.0	4.9	-6.7	16.4						
BABA		4.4	6.6	1.5	-7.3		2.3						
BABB		8.4	10.5	23.6	12.1	-4.8	10.1						
BBAA		7.1	8.1	-2.8	-9.6	-4.0	7.9						
Estimated significance	e of enrichmen	t wrt genom	e-wide ratios	s (expressed i	n standard d	eviations) –	DS-PQS only						
AABB		-4.8	-5.5	-14.9			-14.4						
ABAA		-3.4		-3.0	2.5		-7.2						
ABAB		-3.5		-8.6	-7.6	-2.7	-9.6						
ABBA		2.8		-6.5	-8.6	-0.2	-5.2						
ABBB		0.7	0.4	12.7	10.8	1.4	3.5						
BAAA		2.1	1.3	6.2	7.3	-0.4	14.2						
BABA		0.8	2.2	-2.9	-6.4	0.3	1.2						
BABB		2.4	3.4	14.7	14.6	3.1	8.2						
BBAA		3.0	3.4	-7.1	-8.6	-0.2	6.6						
· — · · ·		2.0		· ·-									