

Chromatin Enrichment/Depletion Open Reading Frame				
Histone Modification	Rank Percentile	Trend*	P-value*	Ranked Gene List
H3K4 Di-Methylation	54.4 %	none	0.0598	
H3K36 Di-Methylation	36.3 %	Depleted	< 10 ⁻⁸	
H2AK7 Acetylation	63.0 %	none	0.0010	
H2AZK14 Acetylation	63.0 %	Enriched	< 10 ⁻⁶	
H2BK11 Acetylation	57.7 %	none	0.0536	
H2BK16 Acetylation	58.4 %	none	0.0346	
H3Nterm Acetylation	65.0 %	Enriched	< 10 ⁻⁹	
H3K9 Acetylation	64.0 %	Enriched	< 10 ⁻³	
H3K14 Acetylation	69.0 %	Enriched	< 10 ⁻⁵	
H3K18 Acetylation	70.8 %	Enriched	< 10 ⁻⁶	
H3K23 Acetylation	66.6 %	Enriched	< 10 ⁻⁴	
H3K27 Acetylation	67.0 %	Enriched	< 10 ⁻⁴	
H3K56 Acetylation	59.4 %	Enriched	< 10-3	
H4Nterm Acetylation	66.9 %	Enriched	< 10 ⁻¹²	
H4K8 Acetylation	61.0 %	none	0.0058	
H4K12 Acetylation	64.4 %	Enriched	< 10 ⁻³	
H4K16 Acetylation	45.8 %	none	0.2908	
H2A Occupancy	%			
H2B Occupancy	%			
H3 Occupancy	37.5 %	Depleted	< 10 ⁻⁷	
H4 Occupancy	42.3 %	none	< 10 ⁻³	
H2AZ Occupancy	59.0 %	Enriched	< 10 ⁻³	

Supplemental Figure S11: (**A,B**) Chromatin modifications associated with the open reading frame (ORF) of genes with slower repair on the non-transcribed strand in the $snf5\Delta$ and/or $snf6\Delta$ mutants relative to WT. Enrichment of histone modifications is derived from published chromatin IP-microarray data (ChIP-chip) and analyzed using the ChromatinDB database (O'Connor and Wyrick 2007).