

TABLE S3 Reads Mapped to Y' Elements

Strain	Alias	% Reads Mapped to Y'	% Of Total Y' Reads Uniquely Mapped
JRY9316	Wild type	0.044	18.8
JRY9316	Wild type	0.055	17.3
JRY9316	Wild type	0.058	18.9
JRY9720	<i>sir2Δ</i>	0.053	20.0
JRY9721	<i>sir2Δ</i>	0.056	19.9
JRY9722	<i>sir2Δ</i>	0.052	19.4
JRY9723	<i>sir3Δ</i>	0.011	19.2
JRY9724	<i>sir3Δ</i>	0.010	19.2
JRY9725	<i>sir3Δ</i>	0.010	18.7
JRY9726	<i>sir4Δ</i>	0.048	18.8
JRY9727	<i>sir4Δ</i>	0.050	18.3
JRY9728	<i>sir4Δ</i>	0.056	18.9

Average % Uniquely-Mapped Y' reads: 18.95%