

**Supplementary Table 1 Quantitation statistics of the large scale SMC and HUVEC TAILS**

**experiments.** TMT labeled peptides filtered for redundancy, species, and DeltaForwtoRev > 0.

Peptides with unmodified or acetylated N-termini containing internal TMT labeled lysine

residues were also included in the analysis.

	<b>SMC1</b>		<b>SMC2</b>		<b>HUVEC</b>	
	Peptides	Proteins	Peptides	Proteins	Peptides	Proteins
Quantified TMT labeled peptides	<b>8818</b>	<b>3152</b>	<b>10964</b>	<b>3579</b>	<b>13276</b>	<b>3826</b>
Peptides N-terminally labeled with TMT	7325	2618	6482	2349	7716	2685
Peptides with unmodified N-termini	926	483	3579	1231	4873	1567
N-terminally acetylated peptides	567	529	903	831	687	636