

Table S-1

Mass Spectrometry Ion Annotations					
Figure 1D Left			Figure 1D Right		
Annotation	Ion Mass	K71me	Annotation	Ion Mass	K71me
a5	598.006		a11	1462.734	
a17	2045.872		a20	2424.704	
b8	1066.25		b3	341.807	
b10	1378.103		b4	483.942	
b11	1475.142		b5	639.89	
b12	1573.218		b8	1080.918	
b13	1700.565		b13	1714.677	
b14	1757.853		c2	230.763	
b16	1973.135		c7	941.733	
b17	2074.58		c17	2105.045	
b20	2438.38		c18	2242.017	
c2	230.989		c20	2469.389	
c3	358.925		c21	2557.104	
c4	487.056		c22	2668.924	
c7	2091.397		c23	2755.972	
c17	2091.397		c24	2899.376	*
c18	2228.051		y3	376.818	
c20	2456.066		y4	489.843	
c21	2543.063		y6	674.883	
c24	2884.518	*	y8	940.85	
y1	146.336		y13	1441.42	
y3	375.866		y14	1538.768	
y4	489.001		y15	1635.712	
y8	940.094		y16	1791.815	
y14	1538.294		y17	1947.602	
y15	1635.481		y18	2103.61	
y16	1791.304		y19	2232.26	
y17	1948.125		y20	2387.675	
y18	2104.376		y21	2545.118	
y19	2232.49		y24	2970.69	
y20	2388.953		M+H ⁺	3027.712	*
y22	2672.778				
y23	2799.973				
y24	2956.1				
M+H ⁺	3013.764	*			

* ions that contain K71me

Table S-1: Mass annotations for ions produced by MS/MS for the indicated figures.

Table S-2

Mass Spectrometry Ion Annotations					
Figure 3B			Figure 3D		
Annotation	Ion Mass	K71me	Annotation	Ion Mass	K71me
a1	129.022		a1	59.492	
a2	226.059		a8	830.203	
a3	323.011		b1	87.782	
a4	451.103		b5	556.341	*
a5	508.115		b7	770.89	*
a6	595.14		b9	1014.543	*
a7	723.253		c7	788.592	*
a8	824.378		c8	875.437	*
a9	961.359		M+H ⁺	1032.623	*
a11	1188.68				
b2	254.011				
b4	479.077				
b5	536.121				
b6	623.169				
b7	751.173				
b8	852.191				
b9	989.36				
c4	496.104				
c8	869.144				
y2	248.04	*			
y3	361.104	*			
y4	448.081	*			
y5	547.128	*			
y6	675.185	*			
y7	812.298	*			
y8	913.326	*			
y13	1410.747	*			
y14	1507.844	*			

* ions that contain K71me

Table S-2: Mass annotations for ions produced by MS/MS for the indicated figures.