

Table S8. The differential histone H4 PTMs sites list in MCF-7 cells under estradiol stimulation

Sequence	Sequence begin (no M)	Acetyl sites (no M)	Methyl sites (no M)	Ratio E2+\\E2-	RSD (%)
SGRGKGGKGLGKGGAKR	1	5 16		2.04	5.2
SGRGKGGKGLGKGGAKR	1	8 16		2.10	0.5
GKGGKGLGKGGAKR	4	5 16		1.68	8.6
GKGGKGLGKGGAKR	4	8		1.68	32.3
GKGGKGLGKGGAKR	4	8 12		1.80	7.5
GKGGKGLGKGGAKR	4	12 16		1.80	8.8
GKGGKGLGKGGAKR	4	8 16		1.90	13.4

GKGGKGLGKGGAKR	4	5 12		1.94	6.8
GKGGKGLGKGGAKR	4	5 12 16		2.14	9.6
GKGGKGLGKGGAKR	4	8 12 16		2.16	3.8
GKGGKGLGKGGAKR	4	5 8 16		2.19	2.0
GKGGKGLGKGGAKR	4	5 8 12 16		2.38	6.5
KVLRDNIQGITKPAIR	20	20	23	0.51	5.1

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