

## Histone Set 4 - Acetyl Library

<b>A1</b>		<b>Control 1</b>		<b>E1</b>	H2b <sub>1-21</sub> K11acK12ac	PEPAKSAPAP $\Delta$ GSKKAVTKA	-spacer-Biotin
<b>A2</b>	H4 <sub>1-21</sub>	SGRGKGGKGLGKGGAKRHRKV	-spacer-Biotin	<b>E2</b>	H2b <sub>1-21</sub> K11acK15ac	PEPAKSAPAP $\Delta$ KGS $\Delta$ KAVTKA	-spacer-Biotin
<b>A3</b>	H4 <sub>1-21</sub> K5ac	SGRG $\Delta$ GGKGLGKGGAKRHRKV	-spacer-Biotin	<b>E3</b>	H2b <sub>1-21</sub> K11acK16ac	PEPAKSAPAP $\Delta$ KGS $\Delta$ AVTKA	-spacer-Biotin
<b>A4</b>	H4 <sub>1-21</sub> K8ac	SGRGKGG $\Delta$ GLGKGGAKRHRKV	-spacer-Biotin	<b>E4</b>	H2b <sub>1-21</sub> K5acK11acK12ac	PEPA $\Delta$ SAPAP $\Delta$ GSKKAVTKA	-spacer-Biotin
<b>A5</b>	H4 <sub>1-21</sub> K12ac	SGRGKGGKGLG $\Delta$ GGAKRHRKV	-spacer-Biotin	<b>E5</b>	H2b <sub>1-21</sub> K5acK15acK16ac	PEPA $\Delta$ SAPAPKKGS $\Delta$ AVTKA	-spacer-Biotin
<b>A6</b>	H4 <sub>1-21</sub> K16ac	SGRGKGGKGLGKGG $\Delta$ RHRKV	-spacer-Biotin	<b>E6</b>	H2b <sub>1-21</sub> K11acK12acK15acK16ac	PEPAKSAPAP $\Delta$ GS $\Delta$ AVTKA	-spacer-Biotin
<b>A7</b>	H4 <sub>1-21</sub> K5acK8ac	SGRG $\Delta$ GG $\Delta$ GLGKGGAKRHRKV	-spacer-Biotin	<b>E7</b>	H2b <sub>1-21</sub> K11acK15acK16ac	PEPAKSAPAP $\Delta$ KGS $\Delta$ AVTKA	-spacer-Biotin
<b>A8</b>	H4 <sub>1-21</sub> K5acK12ac	SGRG $\Delta$ GGKGLG $\Delta$ GGAKRHRKV	-spacer-Biotin	<b>E8</b>	H2b <sub>1-21</sub> K12acK15acK16ac	PEPAKSAPAPK $\Delta$ GS $\Delta$ AVTKA	-spacer-Biotin
<b>A9</b>	H4 <sub>1-21</sub> K5acK16ac	SGRG $\Delta$ GGKGLGKGG $\Delta$ RHRKV	-spacer-Biotin	<b>E9</b>	H2b <sub>1-21</sub> K11acK12acK15ac	PEPAKSAPAP $\Delta$ GS $\Delta$ KAVTKA	-spacer-Biotin
<b>A10</b>	H4 <sub>1-21</sub> K8acK12ac	SGRGKGG $\Delta$ GLG $\Delta$ GGAKRHRKV	-spacer-Biotin	<b>E10</b>	H2b <sub>1-21</sub> K11acK12acK16ac	PEPAKSAPAP $\Delta$ GSK $\Delta$ AVTKA	-spacer-Biotin
<b>A11</b>	H4 <sub>1-21</sub> K8acK16ac	SGRGKGG $\Delta$ GLGKGG $\Delta$ RHRKV	-spacer-Biotin	<b>E11</b>	H2b <sub>1-21</sub> K5acK11acK12acK15acK16ac	PEPA $\Delta$ SAPAP $\Delta$ GS $\Delta$ AVTKA	-spacer-Biotin
<b>A12</b>	H4 <sub>1-21</sub> K12acK16ac	SGRGKGGKGLG $\Delta$ GG $\Delta$ RHRKV	-spacer-Biotin	<b>E12</b>	H2b <sub>13-33</sub>	Ac-GSKKAVTKAQQKDGKKRKRSR	-spacer-Biotin
<b>B1</b>	H4 <sub>1-21</sub> K5acK8acK12ac	SGRG $\Delta$ GG $\Delta$ GLG $\Delta$ GGAKRHRKV	-spacer-Biotin	<b>F1</b>	H2b <sub>13-33</sub> K20ac	Ac-GSKKAVT $\Delta$ AQKKDGKKRKRSR	-spacer-Biotin
<b>B2</b>	H4 <sub>1-21</sub> K8acK12acK16ac	SGRGKGG $\Delta$ GLG $\Delta$ GG $\Delta$ RHRKV	-spacer-Biotin	<b>F2</b>	H2b <sub>13-33</sub> K23ac	Ac-GSKKAVTKAQQKDGKKRKRSR	-spacer-Biotin
<b>B3</b>	H4 <sub>1-21</sub> K5acK12acK16ac	SGRG $\Delta$ GGKGLG $\Delta$ GG $\Delta$ RHRKV	-spacer-Biotin	<b>F3</b>	H2b <sub>13-33</sub> K24ac	Ac-GSKKAVTKAQQ $\Delta$ DGKKRKRSR	-spacer-Biotin
<b>B4</b>	H4 <sub>1-21</sub> K5acK8acK16ac	SGRG $\Delta$ GG $\Delta$ GLGKGG $\Delta$ RHRKV	-spacer-Biotin	<b>F4</b>	H2b <sub>13-33</sub> K20acK23acK24ac	Ac-GSKKAVT $\Delta$ AQ $\Delta$ DGKKRKRSR	-spacer-Biotin
<b>B5</b>	H4 <sub>1-21</sub> K5acK8acK12acK16ac	SGRG $\Delta$ GG $\Delta$ GLG $\Delta$ GG $\Delta$ RHRKV	-spacer-Biotin	<b>F5</b>	H3 <sub>1-21</sub>	ARTKQTARKSTGGKAPRKQLA	-spacer-Biotin
<b>B6</b>	H4 <sub>9-29</sub>	Ac-GLGKGGAKRHRKVLDRDNIQGI	-spacer-Biotin	<b>F6</b>	H3 <sub>1-21</sub> K4ac	ART $\Delta$ QTARKSTGGKAPRKQLA	-spacer-Biotin
<b>B7</b>	H4 <sub>9-29</sub> K20ac	Ac-GLGKGGAKRHR $\Delta$ AVLRDNIQGI	-spacer-Biotin	<b>F7</b>	H3 <sub>1-21</sub> K9ac	ARTKQTAR $\Delta$ STGGKAPRKQLA	-spacer-Biotin
<b>B8</b>	H4 <sub>9-29</sub> K16ac	Ac-GLGKGG $\Delta$ A $\Delta$ RHRKVLDRDNIQGI	-spacer-Biotin	<b>F8</b>	H3 <sub>1-21</sub> K14ac	ARTKQTARKSTGG $\Delta$ APRKQLA	-spacer-Biotin
<b>B9</b>	H4 <sub>9-29</sub> K12acK16ac	Ac-GLG $\Delta$ GG $\Delta$ A $\Delta$ RHRKVLDRDNIQGI	-spacer-Biotin	<b>F9</b>	H3 <sub>1-21</sub> K4acK9ac	ART $\Delta$ QTAR $\Delta$ STGGKAPRKQLA	-spacer-Biotin
<b>B10</b>	H4 <sub>9-29</sub> K16acK20ac	Ac-GLGKGG $\Delta$ A $\Delta$ RHR $\Delta$ AVLRDNIQGI	-spacer-Biotin	<b>F10</b>	H3 <sub>1-21</sub> K4acK14ac	ART $\Delta$ QTARKSTGG $\Delta$ APRKQLA	-spacer-Biotin
<b>B11</b>	H4 <sub>9-29</sub> K12acK16acK20ac	Ac-GLG $\Delta$ GG $\Delta$ A $\Delta$ RHR $\Delta$ AVLRDNIQGI	-spacer-Biotin	<b>F11</b>	H3 <sub>1-21</sub> K9acK14ac	ARTKQTAR $\Delta$ STGG $\Delta$ APRKQLA	-spacer-Biotin
<b>B12</b>	H2a <sub>1-21</sub>	SGRGKQGGKARAKAKTRSSRA	-spacer-Biotin	<b>F12</b>	H3 <sub>1-21</sub> K4acK9acK14ac	ART $\Delta$ QTAR $\Delta$ STGG $\Delta$ APRKQLA	-spacer-Biotin
<b>C1</b>	H2a <sub>1-21</sub> K5ac	SGRG $\Delta$ QGGKARAKAKTRSSRA	-spacer-Biotin	<b>G1</b>	H3 <sub>11-31</sub>	Ac-TGGKAPRKQLATKAARKSAPA	-spacer-Biotin
<b>C2</b>	H2a <sub>1-21</sub> K9ac	SGRGKQGG $\Delta$ ARAKAKTRSSRA	-spacer-Biotin	<b>G2</b>	H3 <sub>11-31</sub> K14ac	Ac-TGG $\Delta$ APRKQLATKAARKSAPA	-spacer-Biotin
<b>C3</b>	H2a <sub>1-21</sub> K13ac	SGRGKQGGKARA $\Delta$ AKTRSSRA	-spacer-Biotin	<b>G3</b>	H3 <sub>11-31</sub> K18ac	Ac-TGGKAPR $\Delta$ QLATKAARKSAPA	-spacer-Biotin
<b>C4</b>	H2a <sub>1-21</sub> K15ac	SGRGKQGGKARAKA $\Delta$ TRSSRA	-spacer-Biotin	<b>G4</b>	H3 <sub>11-31</sub> K23ac	Ac-TGGKAPRKQLAT $\Delta$ ARKSAPA	-spacer-Biotin
<b>C5</b>	H2a <sub>1-21</sub> K5acK9ac	SGRG $\Delta$ QGG $\Delta$ ARAKAKTRSSRA	-spacer-Biotin	<b>G5</b>	H3 <sub>11-31</sub> K27ac	Ac-TGGKAPRKQLATKAAR $\Delta$ SAPA	-spacer-Biotin
<b>C6</b>	H2a <sub>1-21</sub> K5acK13ac	SGRG $\Delta$ QGGKARA $\Delta$ AKTRSSRA	-spacer-Biotin	<b>G6</b>	H3 <sub>11-31</sub> K14acK18ac	Ac-TGG $\Delta$ APR $\Delta$ QLATKAARKSAPA	-spacer-Biotin
<b>C7</b>	H2a <sub>1-21</sub> K5acK15ac	SGRG $\Delta$ QGGKARAKA $\Delta$ TRSSRA	-spacer-Biotin	<b>G7</b>	H3 <sub>11-31</sub> K14acK23ac	Ac-TGG $\Delta$ APRKQLAT $\Delta$ ARKSAPA	-spacer-Biotin
<b>C8</b>	H2a <sub>1-21</sub> K9acK13ac	SGRGKQGG $\Delta$ ARA $\Delta$ AKTRSSRA	-spacer-Biotin	<b>G8</b>	H3 <sub>11-31</sub> K14acK27ac	Ac-TGG $\Delta$ APRKQLATKAAR $\Delta$ SAPA	-spacer-Biotin
<b>C9</b>	H2a <sub>1-21</sub> K9acK15ac	SGRGKQGG $\Delta$ ARAKA $\Delta$ TRSSRA	-spacer-Biotin	<b>G9</b>	H3 <sub>11-31</sub> K18acK23ac	Ac-TGGKAPR $\Delta$ QLAT $\Delta$ ARKSAPA	-spacer-Biotin
<b>C10</b>	H2a <sub>1-21</sub> K13acK15ac	SGRGKQGGKARA $\Delta$ $\Delta$ TRSSRA	-spacer-Biotin	<b>G10</b>	H3 <sub>11-31</sub> K18acK27ac	Ac-TGGKAPR $\Delta$ QLATKAAR $\Delta$ SAPA	-spacer-Biotin
<b>C11</b>	H2a <sub>1-21</sub> K5acK9acK13ac	SGRG $\Delta$ QGG $\Delta$ ARA $\Delta$ AKTRSSRA	-spacer-Biotin	<b>G11</b>	H3 <sub>11-31</sub> K23acK27ac	Ac-TGGKAPRKQLAT $\Delta$ APR $\Delta$ SAPA	-spacer-Biotin
<b>C12</b>	H2a <sub>1-21</sub> K5acK13acK15ac	SGRGKQGG $\Delta$ ARA $\Delta$ $\Delta$ TRSSRA	-spacer-Biotin	<b>G12</b>	H3 <sub>11-31</sub> K14acK23acK27ac	Ac-TGG $\Delta$ APRKQLAT $\Delta$ AR $\Delta$ SAPA	-spacer-Biotin
<b>D1</b>	H2a <sub>1-21</sub> K9acK13acK15ac	SGRGKQGG $\Delta$ ARA $\Delta$ $\Delta$ TRSSRA	-spacer-Biotin	<b>H1</b>	H3 <sub>11-31</sub> K18acK23acK27ac	Ac-TGGKAPR $\Delta$ QLAT $\Delta$ AR $\Delta$ SAPA	-spacer-Biotin
<b>D2</b>	H2a <sub>1-21</sub> K5acK9acK15ac	SGRG $\Delta$ QGG $\Delta$ ARAKA $\Delta$ TRSSRA	-spacer-Biotin	<b>H2</b>	H3 <sub>11-31</sub> K14acK18acK27ac	Ac-TGG $\Delta$ APR $\Delta$ QLATKAAR $\Delta$ SAPA	-spacer-Biotin
<b>D3</b>	H2a <sub>1-21</sub> K5acK9acK13acK15ac	SGRG $\Delta$ QGG $\Delta$ ARA $\Delta$ $\Delta$ TRSSRA	-spacer-Biotin	<b>H3</b>	H3 <sub>11-31</sub> K14acK18acK23acK27ac	Ac-TGG $\Delta$ APR $\Delta$ QLAT $\Delta$ AR $\Delta$ SAPA	-spacer-Biotin
<b>D4</b>	H2b <sub>1-21</sub>	PEPAKSAPAPKKGSKKAVTKA	-spacer-Biotin	<b>H4</b>	H3 <sub>23-43</sub>	Ac-KAARKSAPATGGVKKPHRYRP	-spacer-Biotin
<b>D5</b>	H2b <sub>1-21</sub> K5ac	PEPA $\Delta$ SAPAPKKGSKKAVTKA	-spacer-Biotin	<b>H5</b>	H3 <sub>23-43</sub> K36ac	Ac-KAARKSAPATGGV $\Delta$ KPHRYRP	-spacer-Biotin
<b>D6</b>	H2b <sub>1-21</sub> K11ac	PEPAKSAPAP $\Delta$ KGSKKAVTKA	-spacer-Biotin	<b>H6</b>	H3 <sub>23-43</sub> K37ac	Ac-KAARKSAPATGGVK $\Delta$ PHRYRP	-spacer-Biotin
<b>D7</b>	H2b <sub>1-21</sub> K12ac	PEPAKSAPAP $\Delta$ GSKKAVTKA	-spacer-Biotin	<b>H7</b>	H3 <sub>23-43</sub> K36acK37ac	Ac-KAARKSAPATGGV $\Delta$ $\Delta$ PHRYRP	-spacer-Biotin
<b>D8</b>	H2b <sub>1-21</sub> K15ac	PEPAKSAPAPKKGS $\Delta$ KAVTKA	-spacer-Biotin	<b>H8</b>	H3 <sub>23-43</sub> K27ac	Ac-KAAR $\Delta$ SAPATGGVKKPHRYRP	-spacer-Biotin
<b>D9</b>	H2b <sub>1-21</sub> K5acK11acK16ac	PEPA $\Delta$ SAPAP $\Delta$ KGS $\Delta$ AVTKA	-spacer-Biotin	<b>H9</b>	H3 <sub>23-43</sub> K27acK36ac	Ac-KAAR $\Delta$ SAPATGGV $\Delta$ KPHRYRP	-spacer-Biotin
<b>D10</b>	H2b <sub>1-21</sub> K5acK12ac	PEPA $\Delta$ SAPAPK $\Delta$ GSKKAVTKA	-spacer-Biotin	<b>H10</b>	H3 <sub>23-43</sub> K27acK37ac	Ac-KAAR $\Delta$ SAPATGGVK $\Delta$ PHRYRP	-spacer-Biotin
<b>D11</b>	H2b <sub>1-21</sub> K5acK15ac	PEPA $\Delta$ SAPAPKKGS $\Delta$ KAVTKA	-spacer-Biotin	<b>H11</b>	H3 <sub>23-43</sub> K27acK36acK37ac	Ac-KAAR $\Delta$ SAPATGGV $\Delta$ $\Delta$ PHRYRP	-spacer-Biotin
<b>D12</b>	H2b <sub>1-21</sub> K5acK16ac	PEPA $\Delta$ SAPAPKKGS $\Delta$ AVTKA	-spacer-Biotin	<b>H12</b>		<b>Control 2</b>	

$\Delta$  = acetyl-Lysine

Spacer = aminohexanoic acid, Ahx

Ac- = N-terminal acetylation