# Histone Set 4 - Acetyl Library

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|---|---|---|---|---|---|---|---|
| **A1** | | **Control 1** | | **E1** | $H2b_{1-21}$K11acK12ac | PEPAKSAPAPΔΔGSKKAVTKA | *-spacer-Biotin* |
| **A2** | $H4_{1-21}$ | SGRGKGGKGLGKGGAKRHRKV | *-spacer-Biotin* | **E2** | $H2b_{1-21}$K11acK15ac | PEPAKSAPAPΔKGSΔKAVTKA | *-spacer-Biotin* |
| **A3** | $H4_{1-21}$K5ac | SGRGΔGGKGLGKGGAKRHRKV | *-spacer-Biotin* | **E3** | $H2b_{1-21}$K11acK16ac | PEPAKSAPAPΔKGSKΔAVTKA | *-spacer-Biotin* |
| **A4** | $H4_{1-21}$K8ac | SGRGKGGΔGLGKGGAKRHRKV | *-spacer-Biotin* | **E4** | $H2b_{1-21}$K5acK11acK12ac | PEPAΔSAPAPΔΔGSKKAVTKA | *-spacer-Biotin* |
| **A5** | $H4_{1-21}$K12ac | SGRGKGGKGLGΔGGAKRHRKV | *-spacer-Biotin* | **E5** | $H2b_{1-21}$K5acK15acK16ac | PEPAΔSAPAPKKGSΔΔAVTKA | *-spacer-Biotin* |
| **A6** | $H4_{1-21}$K16ac | SGRGKGGKGLGKGGAΔRHRKV | *-spacer-Biotin* | **E6** | $H2b_{1-21}$K11acK12acK15acK16ac | PEPAKSAPAPΔΔGSΔΔAVTKA | *-spacer-Biotin* |
| **A7** | $H4_{1-21}$K5acK8ac | SGRGΔGGΔGLGKGGAKRHRKV | *-spacer-Biotin* | **E7** | $H2b_{1-21}$K11acK15acK16ac | PEPAKSAPAPΔKGSΔΔAVTKA | *-spacer-Biotin* |
| **A8** | $H4_{1-21}$K5acK12ac | SGRGΔGGKGLGΔGGAKRHRKV | *-spacer-Biotin* | **E8** | $H2b_{1-21}$K12acK15acK16ac | PEPAKSAPAPKΔGSΔΔAVTKA | *-spacer-Biotin* |
| **A9** | $H4_{1-21}$K5acK16ac | SGRGΔGGKGLGKGGAΔRHRKV | *-spacer-Biotin* | **E9** | $H2b_{1-21}$K11acK12acK15ac | PEPAKSAPAPΔΔGSΔKAVTKA | *-spacer-Biotin* |
| **A10** | $H4_{1-21}$K8acK12ac | SGRGKGGΔGLGΔGGAKRHRKV | *-spacer-Biotin* | **E10** | $H2b_{1-21}$K11acK12acK16ac | PEPAKSAPAPΔΔGSKΔAVTKA | *-spacer-Biotin* |
| **A11** | $H4_{1-21}$K8acK16ac | SGRGKGGΔGLGKGGAΔRHRKV | *-spacer-Biotin* | **E11** | $H2b_{1-21}$K5acK11acK12acK15acK16ac | PEPAΔSAPAPΔΔGSΔΔAVTKA | *-spacer-Biotin* |
| **A12** | $H4_{1-21}$K12acK16ac | SGRGKGGKGLGΔGGAΔRHRKV | *-spacer-Biotin* | **E12** | $H2b_{13-33}$ | Ac-GSKKAVTKAQKKDGKKRKRSR | *-spacer-Biotin* |
| **B1** | $H4_{1-21}$K5acK8acK12ac | SGRGΔGGΔGLGΔGGAKRHRKV | *-spacer-Biotin* | **F1** | $H2b_{13-33}$K20ac | Ac-GSKKAVTΔAQKKDGKKRKRSR | *-spacer-Biotin* |
| **B2** | $H4_{1-21}$K8acK12acK16ac | SGRGKGGΔGLGΔGGAΔRHRKV | *-spacer-Biotin* | **F2** | $H2b_{13-33}$K23ac | Ac-GSKKAVTKAQΔKDGKKRKRSR | *-spacer-Biotin* |
| **B3** | $H4_{1-21}$K5acK12acK16ac | SGRGΔGGKGLGΔGGAΔRHRKV | *-spacer-Biotin* | **F3** | $H2b_{13-33}$K24ac | Ac-GSKKAVTKAQKΔDGKKRKRSR | *-spacer-Biotin* |
| **B4** | $H4_{1-21}$K5acK8acK16ac | SGRGΔGGΔGLGKGGAΔRHRKV | *-spacer-Biotin* | **F4** | $H2b_{13-33}$K20acK23acK24ac | Ac-GSKKAVTΔAQΔΔDGKKRKRSR | *-spacer-Biotin* |
| **B5** | $H4_{1-21}$K5acK8acK12acK16ac | SGRGΔGGΔGLGΔGGAΔRHRKV | *-spacer-Biotin* | **F5** | $H3_{1-21}$ | ARTKQTARKSTGGKAPRKQLA | *-spacer-Biotin* |
| **B6** | $H4_{9-29}$ | Ac-GLGKGGAKRHRKVLRDNIQGI | *-spacer-Biotin* | **F6** | $H3_{1-21}$K4ac | ARTΔQTARKSTGGKAPRKQLA | *-spacer-Biotin* |
| **B7** | $H4_{9-29}$K20ac | Ac-GLGKGGAKRHRΔVLRDNIQGI | *-spacer-Biotin* | **F7** | $H3_{1-21}$K9ac | ARTKQTARΔSTGGKAPRKQLA | *-spacer-Biotin* |
| **B8** | $H4_{9-29}$K16ac | Ac-GLGKGGAΔRHRKVLRDNIQGI | *-spacer-Biotin* | **F8** | $H3_{1-21}$K14ac | ARTKQTARKSTGGΔAPRKQLA | *-spacer-Biotin* |
| **B9** | $H4_{9-29}$K12acK16ac | Ac-GLGΔGGAΔRHRKVLRDNIQGI | *-spacer-Biotin* | **F9** | $H3_{1-21}$K4acK9ac | ARTΔQTARΔSTGGKAPRKQLA | *-spacer-Biotin* |
| **B10** | $H4_{9-29}$K16acK20ac | Ac-GLGKGGAΔRHRΔVLRDNIQGI | *-spacer-Biotin* | **F10** | $H3_{1-21}$K4acK14ac | ARTΔQTARKSTGGΔAPRKQLA | *-spacer-Biotin* |
| **B11** | $H4_{9-29}$K12acK16acK20ac | Ac-GLGΔGGAΔRHRΔVLRDNIQGI | *-spacer-Biotin* | **F11** | $H3_{1-21}$K9acK14ac | ARTKQTARΔSTGGΔAPRKQLA | *-spacer-Biotin* |
| **B12** | $H2a_{1-21}$ | SGRGKQGGKARAKAKTRSSRA | *-spacer-Biotin* | **F12** | $H3_{1-21}$K4acK9acK14ac | ARTΔQTARΔSTGGΔAPRKQLA | *-spacer-Biotin* |
| **C1** | $H2a_{1-21}$K5ac | SGRGΔQGGKARAKAKTRSSRA | *-spacer-Biotin* | **G1** | $H3_{11-31}$ | Ac-TGGKAPRKQLATKAARKSAPA | *-spacer-Biotin* |
| **C2** | $H2a_{1-21}$K9ac | SGRGKQGGΔARAKAKTRSSRA | *-spacer-Biotin* | **G2** | $H3_{11-31}$K14ac | Ac-TGGΔAPRKQLATKAARKSAPA | *-spacer-Biotin* |
| **C3** | $H2a_{1-21}$K13ac | SGRGKQGGKARAΔAKTRSSRA | *-spacer-Biotin* | **G3** | $H3_{11-31}$K18ac | Ac-TGGKAPRΔQLATKAARKSAPA | *-spacer-Biotin* |
| **C4** | $H2a_{1-21}$K15ac | SGRGKQGGKARAKAΔTRSSRA | *-spacer-Biotin* | **G4** | $H3_{11-31}$K23ac | Ac-TGGKAPRKQLATΔAARKSAPA | *-spacer-Biotin* |
| **C5** | $H2a_{1-21}$K5acK9ac | SGRGΔQGGΔARAKAKTRSSRA | *-spacer-Biotin* | **G5** | $H3_{11-31}$K27ac | Ac-TGGKAPRKQLATKAARΔSAPA | *-spacer-Biotin* |
| **C6** | $H2a_{1-21}$K5acK13ac | SGRGΔQGGKARAΔAKTRSSRA | *-spacer-Biotin* | **G6** | $H3_{11-31}$K14acK18ac | Ac-TGGΔAPRΔQLATKAARKSAPA | *-spacer-Biotin* |
| **C7** | $H2a_{1-21}$K5acK15ac | SGRGΔQGGKARAKAΔTRSSRA | *-spacer-Biotin* | **G7** | $H3_{11-31}$K14acK23ac | Ac-TGGΔAPRKQLATΔAARKSAPA | *-spacer-Biotin* |
| **C8** | $H2a_{1-21}$K9acK13ac | SGRGKQGGΔARAΔAKTRSSRA | *-spacer-Biotin* | **G8** | $H3_{11-31}$K14acK27ac | Ac-TGGΔAPRKQLATKAARΔSAPA | *-spacer-Biotin* |
| **C9** | $H2a_{1-21}$K9acK15ac | SGRGKQGGΔARAKAΔTRSSRA | *-spacer-Biotin* | **G9** | $H3_{11-31}$K18acK23ac | Ac-TGGKAPRΔQLATΔAARKSAPA | *-spacer-Biotin* |
| **C10** | $H2a_{1-21}$K13acK15ac | SGRGKQGGKARAΔAΔTRSSRA | *-spacer-Biotin* | **G10** | $H3_{11-31}$K18acK27ac | Ac-TGGKAPRΔQLATKAARΔSAPA | *-spacer-Biotin* |
| **C11** | $H2a_{1-21}$K5acK9acK13ac | SGRGΔQGGΔARAΔAKTRSSRA | *-spacer-Biotin* | **G11** | $H3_{11-31}$K23acK27ac | Ac-TGGKAPRKQLATΔAARΔSAPA | *-spacer-Biotin* |
| **C12** | $H2a_{1-21}$K5acK13acK15ac | SGRGΔQGGKARAΔAΔTRSSRA | *-spacer-Biotin* | **G12** | $H3_{11-31}$K14acK23acK27ac | Ac-TGGΔAPRKQLATΔAARΔSAPA | *-spacer-Biotin* |
| **D1** | $H2a_{1-21}$K9acK13acK15ac | SGRGKQGGΔARAΔAΔTRSSRA | *-spacer-Biotin* | **H1** | $H3_{11-31}$K18acK23acK27ac | Ac-TGGKAPRΔQLATΔAARΔSAPA | *-spacer-Biotin* |
| **D2** | $H2a_{1-21}$K5acK9acK15ac | SGRGΔQGGΔARAKAΔTRSSRA | *-spacer-Biotin* | **H2** | $H3_{11-31}$K14acK18acK27ac | Ac-TGGΔAPRΔQLATKAARΔSAPA | *-spacer-Biotin* |
| **D3** | $H2a_{1-21}$K5acK9acK13acK15ac | SGRGΔQGGΔARAΔAΔTRSSRA | *-spacer-Biotin* | **H3** | $H3_{11-31}$K14acK18acK23acK27ac | Ac-TGGΔAPRΔQLATΔAARΔSAPA | *-spacer-Biotin* |
| **D4** | $H2b_{1-21}$ | PEPAKSAPAPKKGSKKAVTKA | *-spacer-Biotin* | **H4** | $H3_{23-43}$ | Ac-KAARKSAPATGGVKKPHRYRP | *-spacer-Biotin* |
| **D5** | $H2b_{1-21}$K5ac | PEPAΔSAPAPKKGSKKAVTKA | *-spacer-Biotin* | **H5** | $H3_{23-43}$K36ac | Ac-KAARKSAPATGGVΔKPHRYRP | *-spacer-Biotin* |
| **D6** | $H2b_{1-21}$K11ac | PEPAKSAPAPΔKGSKKAVTKA | *-spacer-Biotin* | **H6** | $H3_{23-43}$K37ac | Ac-KAARKSAPATGGVKΔPHRYRP | *-spacer-Biotin* |
| **D7** | $H2b_{1-21}$K12ac | PEPAKSAPAPKΔGSKKAVTKA | *-spacer-Biotin* | **H7** | $H3_{23-43}$K36acK37ac | Ac-KAARKSAPATGGVΔΔPHRYRP | *-spacer-Biotin* |
| **D8** | $H2b_{1-21}$K15ac | PEPAKSAPAPKKGSΔKAVTKA | *-spacer-Biotin* | **H8** | $H3_{23-43}$K27ac | Ac-KAARΔSAPATGGVKKPHRYRP | *-spacer-Biotin* |
| **D9** | $H2b_{1-21}$K5acK11acK16ac | PEPAΔSAPAPΔKGSKΔAVTKA | *-spacer-Biotin* | **H9** | $H3_{23-43}$K27acK36ac | Ac-KAARΔSAPATGGVΔKPHRYRP | *-spacer-Biotin* |
| **D10** | $H2b_{1-21}$K5acK12ac | PEPAΔSAPAPKΔGSKKAVTKA | *-spacer-Biotin* | **H10** | $H3_{23-43}$K27acK37ac | Ac-KAARΔSAPATGGVKΔPHRYRP | *-spacer-Biotin* |
| **D11** | $H2b_{1-21}$K5acK15ac | PEPAΔSAPAPKKGSΔKAVTKA | *-spacer-Biotin* | **H11** | $H3_{23-43}$K27acK36acK37ac | Ac-KAARΔSAPATGGVΔΔPHRYRP | *-spacer-Biotin* |
| **D12** | $H2b_{1-21}$K5acK16ac | PEPAΔSAPAPKKGSKΔAVTKA | *-spacer-Biotin* | **H12** | | **Control 2** | |

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|---|---|
| Δ = acetyl-Lysine | |
| Spacer = aminohexanoic acid, Ahx | Ac- = N-terminal acetylation |