

Histone Set 5 - Phosphorylation and Arginine Methylation Library

A1		Control 1		E1	H3 ₁₋₂₀ R2me ₂ Ci8	AATKQTA \hat{C} KSTGGKAPRKQL	-spacer-Biotin
A2	H2a ₁₋₂₀	SGRGKQGGKARAKAKTRSSR	-spacer-Biotin	E2	H3 ₁₋₂₀ R2me ₂ aR8me	A Ψ TKQTA \hat{E} KSTGGKAPRKQL	-spacer-Biotin
A3	H2a ₁₋₂₀ S1phos	Σ GRGKQGGKARAKAKTRSSR	-spacer-Biotin	E3	H3 ₁₋₂₀ R2me ₂ aR8me ₂	A Ψ TKQTA \hat{A} KSTGGKAPRKQL	-spacer-Biotin
A4	H2a ₁₋₂₀ R3me	SG \hat{E} GKQGGKARAKAKTRSSR	-spacer-Biotin	E4	H3 ₁₋₂₀ R2me ₂ aR8me ₂ a	A Ψ TKQTA Ψ KSTGGKAPRKQL	-spacer-Biotin
A5	H2a ₁₋₂₀ R3me ₂	SG \hat{A} GKQGGKARAKAKTRSSR	-spacer-Biotin	E5	H3 ₁₋₂₀ R2me ₂ aCi8	A Ψ TKQTA \hat{C} KSTGGKAPRKQL	-spacer-Biotin
A6	H2a ₁₋₂₀ R3me ₂ a	SG Ψ GKQGGKARAKAKTRSSR	-spacer-Biotin	E6	H3 ₁₋₃₂	Ac-GKAPRKQLATKAARKSAPAT	-spacer-Biotin
A7	H2a ₁₋₂₀ Ci3	SG \hat{C} GKQGGKARAKAKTRSSR	-spacer-Biotin	E7	H3 ₁₋₃₂ R17me	Ac-GKAP \hat{E} KQLATKAARKSAPAT	-spacer-Biotin
A8	H2a ₁₁₀₋₁₂₈	Ac-NIQAVLLPKKTESHHKAKGK	-spacer-Biotin	E8	H3 ₁₋₃₂ R17me ₂	Ac-GKAP \hat{A} KQLATKAARKSAPAT	-spacer-Biotin
A9	H2a ₁₁₀₋₁₂₈ T120phos	Ac-NIQAVLLPKK \hat{Q} ESHKAKGK	-spacer-Biotin	E9	H3 ₁₋₃₂ R17me ₂ a	Ac-GKAP Ψ KQLATKAARKSAPAT	-spacer-Biotin
A10	H2b ₁₋₂₀	PEPAKSAPAPKKGSKKAVTK	-spacer-Biotin	E10	H3 ₁₋₃₂ Ci17	Ac-GKAP \hat{C} KQLATKAARKSAPAT	-spacer-Biotin
A11	H2b ₁₋₂₀ S6phos	PEPAK Σ APAPKKGSKKAVTK	-spacer-Biotin	E11	H3 ₁₋₃₂ R26me	Ac-GKAPRKQLATKAA \hat{A} KSAPAT	-spacer-Biotin
A12	H2b ₁₋₂₀ S14phos	PEPAKSAPAPKKG Σ KKAVTK	-spacer-Biotin	E12	H3 ₁₋₃₂ R26me ₂	Ac-GKAPRKQLATKAA \hat{A} KSAPAT	-spacer-Biotin
B1	H2b ₁₋₂₀ S6phosS14phos	PEPAK Σ APAPKKG \hat{E} KKAVTK	-spacer-Biotin	F1	H3 ₁₋₃₂ R26me ₂ a	Ac-GKAPRKQLATKAA Ψ KSAPAT	-spacer-Biotin
B2	H2b ₂₇₋₄₆	Ac-KKRKRSRKESYSVYVYKVLK	-spacer-Biotin	F2	H3 ₁₋₃₂ Ci26	Ac-GKAPRKQLATKAA \hat{C} KSAPAT	-spacer-Biotin
B3	H2b ₂₇₋₄₆ S32phos	Ac-KKRK \hat{R} SRKESYSVYVYKVLK	-spacer-Biotin	F3	H3 ₁₋₃₂ R17me ₂ R26me ₂	Ac-GKAP \hat{A} KQLATKAA \hat{A} KSAPAT	-spacer-Biotin
B4	H2b ₂₇₋₄₆ S38phos	Ac-KKRKRSRKESY Σ VYVYKVLK	-spacer-Biotin	F4	H3 ₁₋₃₂ R17me ₂ R26me ₂ a	Ac-GKAP \hat{A} KQLATKAA Ψ KSAPAT	-spacer-Biotin
B5	H2b ₂₇₋₄₆ S32phosS38phos	Ac-KKRK \hat{R} SRKESY Σ VYVYKVLK	-spacer-Biotin	F5	H3 ₁₋₃₂ R17me ₂ Ci26	Ac-GKAP \hat{A} KQLATKAA \hat{C} KSAPAT	-spacer-Biotin
B6	H2b ₂₇₋₄₆ S36phosS38phos	Ac-KKRKRSRKE Σ Y Σ VYVYKVLK	-spacer-Biotin	F6	H3 ₁₋₃₂ R17me ₂ aR26me ₂	Ac-GKAP Ψ KQLATKAA \hat{A} KSAPAT	-spacer-Biotin
B7	H2b ₂₇₋₄₆ S32phosS36phos	Ac-KKRK \hat{R} SRKE Σ Y Σ VYVYKVLK	-spacer-Biotin	F7	H3 ₁₋₃₂ R17me ₂ aR26me ₂ a	Ac-GKAP Ψ KQLATKAA \hat{C} KSAPAT	-spacer-Biotin
B8	H2b ₂₇₋₄₆ S32phosS36phosS38phos	Ac-KKRK \hat{R} SRKE Σ Y Σ VYVYKVLK	-spacer-Biotin	F8	H3 ₁₋₃₂ R17me ₂ aCi26	Ac-GKAP Ψ KQLATKAA \hat{C} KSAPAT	-spacer-Biotin
B9	H3 ₁₋₂₀	ARTKQTARKSTGGKAPRKQL	-spacer-Biotin	F9	H3 ₁₋₃₂ Ci17R26me ₂	Ac-GKAP \hat{C} KQLATKAA \hat{A} KSAPAT	-spacer-Biotin
B10	H3 ₁₋₂₀ T3phos	AR \hat{O} KQTARKSTGGKAPRKQL	-spacer-Biotin	F10	H3 ₁₋₃₂ Ci17R26me ₂ a	Ac-GKAP \hat{C} KQLATKAA Ψ KSAPAT	-spacer-Biotin
B11	H3 ₁₋₂₀ T6phos	ARTKQ \hat{O} ARKSTGGKAPRKQL	-spacer-Biotin	F11	H3 ₁₋₃₂ Ci17Ci26	Ac-GKAP \hat{C} KQLATKAA \hat{C} KSAPAT	-spacer-Biotin
B12	H3 ₁₋₂₀ T11phos	ARTKQTARKS \hat{O} GGKAPRKQL	-spacer-Biotin	F12	H3 ₂₂₋₄₁	Ac-TKAARKSAPATGGVKKPHRY	-spacer-Biotin
C1	H3 ₁₋₂₀ T3phosT6phos	AR \hat{O} KQ \hat{O} ARKSTGGKAPRKQL	-spacer-Biotin	G1	H3 ₂₂₋₄₁ S28phos	Ac-TKAARK Σ APATGGVKKPHRY	-spacer-Biotin
C2	H3 ₁₋₂₀ T3phosT11phos	AR \hat{O} KQTARKS \hat{O} GGKAPRKQL	-spacer-Biotin	G2	H3 ₂₂₋₄₁ T32phos	Ac-TKAARKSAPATGGVKKPHRY	-spacer-Biotin
C3	H3 ₁₋₂₀ T6phosT11phos	ARTKQ \hat{O} ARKS \hat{O} GGKAPRKQL	-spacer-Biotin	G3	H3 ₂₂₋₄₁ S28phosT32phos	Ac-TKAARK Σ APATGGVKKPHRY	-spacer-Biotin
C4	H3 ₁₋₂₀ T3phosT6phosT11phos	AR \hat{O} KQ \hat{O} ARKS \hat{O} GGKAPRKQL	-spacer-Biotin	G4	H3 ₃₄₋₅₃	Ac-GVKKPHRYRPGTVALREIRR	-spacer-Biotin
C5	H3 ₁₋₂₀ S10phos	ARTKQTARK Σ TGGKAPRKQL	-spacer-Biotin	G5	H3 ₃₄₋₅₃ Y41phos	Ac-GVKKPHR \hat{T} RPGTVALREIRR	-spacer-Biotin
C6	H3 ₁₋₂₀ T3phosS10phos	AR \hat{O} KQTARK Σ TGGKAPRKQL	-spacer-Biotin	G6	H3 ₅₀₋₆₉	Ac-EIRRYQKSTELLIRKLPFQR	-spacer-Biotin
C7	H3 ₁₋₂₀ T6phosS10phos	ARTKQ \hat{O} ARK Σ TGGKAPRKQL	-spacer-Biotin	G7	H3 ₅₀₋₆₉ S57phos	Ac-EIRRYQK $\hat{\Sigma}$ TELLIRKLPFQR	-spacer-Biotin
C8	H3 ₁₋₂₀ T3phosS10phosT11phos	AR \hat{O} KQTARK Σ GGKAPRKQL	-spacer-Biotin	G8	H4 ₁₋₂₀	SGRGKGGKGLGKGGAKRHRK	-spacer-Biotin
C9	H3 ₁₋₂₀ T6phosS10phosT11phos	ARTKQ \hat{O} ARK Σ GGKAPRKQL	-spacer-Biotin	G9	H4 ₁₋₂₀ R3me	SG \hat{E} GKGGKGLGKGGAKRHRK	-spacer-Biotin
C10	H3 ₁₋₂₀ T3phosT6phosS10phosT11phos	AR \hat{O} KQ \hat{O} ARK Σ GGKAPRKQL	-spacer-Biotin	G10	H4 ₁₋₂₀ R3me ₂	SG \hat{A} GKGGKGLGKGGAKRHRK	-spacer-Biotin
C11	H3 ₁₋₂₀ R2me	A \hat{E} TKQTARKSTGGKAPRKQL	-spacer-Biotin	G11	H4 ₁₋₂₀ R3me ₂ a	SG Ψ GKGGKGLGKGGAKRHRK	-spacer-Biotin
C12	H3 ₁₋₂₀ R2me ₂	AATKQTARKSTGGKAPRKQL	-spacer-Biotin	G12	H4 ₁₋₂₀ Ci3	SG \hat{C} GKGGKGLGKGGAKRHRK	-spacer-Biotin
D1	H3 ₁₋₂₀ R2me ₂ a	A Ψ TKQTARKSTGGKAPRKQL	-spacer-Biotin	H1	H4 ₁₋₂₀ S1phos	Σ GRGKGGKGLGKGGAKRHRK	-spacer-Biotin
D2	H3 ₁₋₂₀ R8me	ARTKQTA \hat{E} KSTGGKAPRKQL	-spacer-Biotin	H2	H4 ₄₀₋₅₉	Ac-RGGVKRISGLIYEETRGLVK	-spacer-Biotin
D3	H3 ₁₋₂₀ R8me ₂	ARTKQTA \hat{A} KSTGGKAPRKQL	-spacer-Biotin	H3	H4 ₄₀₋₅₉ S47phos	Ac-RGGVKRI Σ GLIYEETRGLVK	-spacer-Biotin
D4	H3 ₁₋₂₀ R8me ₂ a	ARTKQTA Ψ KSTGGKAPRKQL	-spacer-Biotin	H4	H4 ₄₀₋₅₉ Y51phos	Ac-RGGVKRISGLI \hat{T} EETRGLVK	-spacer-Biotin
D5	H3 ₁₋₂₀ Ci8	ARTKQTA \hat{C} KSTGGKAPRKQL	-spacer-Biotin	H5	H4 ₄₀₋₅₉ S47phosY51phos	Ac-RGGVKRI Σ GLI \hat{T} EETRGLVK	-spacer-Biotin
D6	H3 ₁₋₂₀ R2meR8me	A \hat{E} TKQTA \hat{E} KSTGGKAPRKQL	-spacer-Biotin	H6	H4 ₈₀₋₉₉	Ac-TVTAMDVVYALKRQGR \hat{T} LYG	-spacer-Biotin
D7	H3 ₁₋₂₀ R2meR8me ₂	A \hat{E} TKQTA \hat{A} KSTGGKAPRKQL	-spacer-Biotin	H7	H4 ₈₀₋₉₉ Y88phos	Ac-TVTAMDVV \hat{T} ALKRQGR \hat{T} LYG	-spacer-Biotin
D8	H3 ₁₋₂₀ R2meR8me ₂ a	A \hat{E} TKQTA Ψ KSTGGKAPRKQL	-spacer-Biotin	H8	H4 ₈₀₋₉₉ R92me	Ac-TVTAMDVVYALK \hat{E} QGR \hat{T} LYG	-spacer-Biotin
D9	H3 ₁₋₂₀ R2meCi8	A \hat{E} TKQTA \hat{C} KSTGGKAPRKQL	-spacer-Biotin	H9	H4 ₈₀₋₉₉ R92me ₂	Ac-TVTAMDVVYALK \hat{A} QGR \hat{T} LYG	-spacer-Biotin
D10	H3 ₁₋₂₀ R2me ₂ R8me	AATKQTA \hat{E} KSTGGKAPRKQL	-spacer-Biotin	H10	H4 ₈₀₋₉₉ R92me ₂ a	Ac-TVTAMDVVYALK Ψ QGR \hat{T} LYG	-spacer-Biotin
D11	H3 ₁₋₂₀ R2me ₂ R8me ₂	AATKQTA \hat{A} KSTGGKAPRKQL	-spacer-Biotin	H11	H4 ₈₀₋₉₉ Ci92	Ac-TVTAMDVVYALK \hat{C} QGR \hat{T} LYG	-spacer-Biotin
D12	H3 ₁₋₂₀ R2me ₂ R8me ₂ a	AATKQTA Ψ KSTGGKAPRKQL	-spacer-Biotin	H12		Control 2	

Σ = phospho-Ser	Ω = phospho-Thr	Γ = phospho-Tyr	
Ξ = monomethyl-Arg	Λ = sym dimethyl-Arg	Ψ = asym dimethyl-Arg	\hat{C} = citrulline
Spacer = aminohexanoic acid, Ahx		Ac- = N-terminal acetylation	