

**S4 Table.** Lysine acetylated peptides containing  $^{13}\text{C}$ -acetyllysine from nuclear protein fractions of HuH7-derived CD13<sup>+</sup> cells

Protein name	gi	Peptide sequence	No. of sites	Molecular function
<b>Transcription/Translation</b>				
p29ING4	gi18873723	QIESSDYDSSSSK*GK*K	2 Acetyl(K)	DNA binding
p29ING4	gi18873723	SK*GK*NSDEEAPK	2 Acetyl(K)	DNA binding
Foxd3	gi6912372	PYYREK*FPAWQ	1 Acetyl(K)	DNA binding
HMG-1	gi968888	K*HPDASVNFSEFSK	1 Acetyl(K)	DNA binding
MLL3	gi10864041	TLVLSDK*HSPQK	1 Acetyl(K)	DNA binding
eIF-5A	gi42659529	K*YEDICPSTHNMDVPNIK	1 Acetyl(K)	Translating initiation factor
CREB-binding protein	gi631119	K*TNK*NK*SSISR	3 Acetyl(K)	Translation coactivator
EF1 alpha	gi62896589	NVSVK*DVR	1 Acetyl(K)	Elongation factor
<b>Chaperones</b>				
FK506 binding protein 4	gi4503729	LEQSTIVK*ER	1 Acetyl(K)	Chaperone
Heat shock 90kDa protein 1 beta	gi34304590	K*HLEINPDHPIVETLR	1 Acetyl(K)	Chaperone
<b>Structural</b>				

Thymosin beta 10	gi16876901	ADK*PDMGEIASFDK	1 Acetyl(K)	Actin binding
<b>Signaling transduction</b>				
Rho GDI alpha	gi30582607	IDK*TDYMVGSYGPR	1 Acetyl(K)	
Phospholipase C beta 1	gi9438229	K*DSKK*K	2 Acetyl(K)	Liberates inositol 1,4,5-triphosphate
<b>Cell cycle</b>				
PCNP	gi9966827	GK*HGFSNQK	1 Acetyl(K)	
<b>Miscellaneous</b>				
Huntingtin interacting protein K	gi27692116	K*HDSGAADLER	1 Acetyl(K)	Protein binding

---

Identified proteins were functionally classified based on their annotation in the NCBI protein database (<http://www.ncbi.nlm.nih.gov>) and NIAIDs DAVID

1,2.