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sp Q9UQL6 HDAC5_HUMAN													-				-	-	-	-	-	-	Ρ	D	Q	Ρ	V		- 704	
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sp O15379 HDAC3_HUMAN	Ρ	Μ	ΚI	Ρŀ	1 R	Ł	Α	L	Τ	H S	SL	. V	L	H)	Y (ЭL	Υ	Κ	ΚI	M	۱ ا	V	F	K	Ρ	Υ	Q	Α	<u>S</u> 84	
sp Q92769 HDAC2_HUMAN	Ρ	Μ	ΚI	Ρŀ	1 R	l S	R	Μ	Τ	И	N L	L	L	N	Y (ЭL	Υ	R	ΚI	M	Ε	Ι.	Υ	R	Ρ	Η	Κ	Α	T 91	
sp Q13547 HDAC1_HUMAN	Ρ	Μ	ΚI	Ρŀ	1 R	l S	R	Μ	Τ	И	N L	L	L	N	Y (ЭL	Υ	R	ΚI	M	Ε	Ι.	Υ	R	Ρ	Η	Κ	Α	N 90	
■ sp Q9UBN7 HDAC6_HUMAN	Ρ	Ε	V	P (Q R	l S	L	R		M (CF	l L	Ε	Εl	L (ЭL	Α	G	R	С	Γ.	Τ	L	Τ	Ρ	R	Ρ	Α	T 559	
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✓ § sp Q9UQL6 HDAC5_HUMAN	Ρ	Ε	Н	A (3 R	l S	Q	S	1	W S	SF	l L	Q	E	Γ(ЭL	L	S	K	C	Εŀ	R		R	G	R	Κ	Α	T 767	
sp P56524 HDAC4_HUMAN	Ρ	Ε	Н	A (3 R	1	Q	S	1	W S	SF	R L	Q	Ε .	Γ(ЭL	R	G	K	C	Ε (С	I	R	G	R	Κ	Α	T 738	
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sp Q92769 HDAC2_HUMAN	-	-	-	- 1	ΛC	R (F	Ν	V	GΙ	ΕC) C	Ρ				V	F	D	G	L	F	Ε	F	С	Q	-	-	_ 139	
sp Q13547 HDAC1_HUMAN	-	-	-	- 1	ΛC	R	F	Ν	V	GΙ	ΕC) C	Ρ				V	F	D	G	L	F	Ε	F	С	Q	-	-	_ 138	
sp Q9UBN7 HDAC6_HUMAN	Η	R	Ε		-	-	-	-	-	-		-	-		- 3	SS	Ν	F	D	S	Ι'	Υ		С	Ρ	S	Τ	F	∆ 608	
✓ № sp Q8WUI4 HDAC7_HUMAN	Α	G	L	L A	A C	R (Μ	F	V	ΜI	L F	C	G	G١	V (ЭV	D	Τ	D	Τ	I١	Ν	Ν	Ε	L	Η	S	S	∖ 667	
✓ § sp Q9UKV0 HDAC9_HUMAN	L	G	DΙ	D S	SC) K	F	F	S	SI	L F	C	G	GΙ	L (ЭV	D	S	D	Τ	I١	Ν	Ν	Ε	L	Η	S	S	€ 780	
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SpiP56524 HDAC4_HUMAN Q8WUI4:Sequence conflict \$\int_{\text{3}}^{\text{5}} \spiQ9BY41 HDAC8_HUMAN \$\int_{\text{3}}^{\text{5}} \spiQ015379 HDAC3_HUMAN	W L L	G H H H	S H H H	A P A P	K K K K K K K K K K K K K K K K K K K	DF	V E E E	A A A	S S S	G I G I	F ()	; Y ; Y ; Y	L V V	N [N [N [4 V I V	L I L	G G A	I I	L I	R I	L I	R L	E R K	·	- -	-	K Y Y	F201 -193	
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SpiQ9BY41 HDAC4_HUMAN SpiQ9BY41 HDAC8_HUMAN SpiQ15379 HDAC3_HUMAN SpiQ92769 HDAC2_HUMAN SpiQ13547 HDAC1_HUMAN	W L L L G	G H H H H H	H H H H H	A	K K	D F S D	V EEEEA	A A A A	SSSSC	G I G I G I	F C	Y Y Y Y F	L V V F	N [N [N [N [N [A V I V I V I V	L L L V	G A A	 	L I L I L I	R I E I H I	L L L	R L L	R K K K T	· · · · · · · · · · · · · · · · · · ·	S	- - G	K Y Y H	F201 F193 F200 F199	
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SpiQ9BY41 HDAC4_HUMAN SpiQ9BY41 HDAC8_HUMAN SpiQ15379 HDAC3_HUMAN SpiQ92769 HDAC2_HUMAN SpiQ13547 HDAC1_HUMAN SpiQ9UBN7 HDAC6_HUMAN SpiQ9UBN7 HDAC6_HUMAN SpiQ8WUI4 HDAC7_HUMAN	W L L G G G	G /HHHHHHHHHHHH	H / H / H / H / H / H / H / H / H / H /	A	(K (K (K (K (K (K (K (K (K (K	D F S D D S S	V EEEEATT	A A A A A A	S S S C M M	G I G I G I G I	F () F () F () F ()	Y Y Y Y Y Y F F F F F F F F F	L V V F F F	N [N [N [N [N] N]		A V I V I V V A V A	L	G G A A A T	 A C A	L I L I R I R (R E E H	L L L L	R L L L Q R	R K K K T Q D	V Q Q	S S L	- - G -	K Y Y H K N	F201 -193 -200 -199 -672 -4730	
Sp Q9BY41 HDAC4_HUMAN Sp Q9BY41 HDAC8_HUMAN Sp Q9BY41 HDAC8_HUMAN Sp Q92769 HDAC3_HUMAN Sp Q92769 HDAC2_HUMAN Sp Q915547 HDAC1_HUMAN Sp Q9UBN7 HDAC6_HUMAN Sp Q9UBN7 HDAC6_HUMAN Sp Q9UBN7 HDAC7_HUMAN Sp Q9UKV0 HDAC9_HUMAN	WLLLGGGG	G HHHHHHHHH	H / H / H / H / H / H / H / H / H / H /	A	(K (K (K (K (K (K (K (K (K (K	D F S D I S S S	V EEEEATTT	A A A A A A A	S S S S C M M M	G G G G G G	F () F () F () F ()	Y Y Y Y F F F F F F F	L V V F F F F	N [N [N [N 3 N 3 N 3		A V I V I V V A V A	L	G G A A A T T		L I L I R I K K	R E E H Q Y L	L L L L L L	R L L L Q Q R Q	RKKKTQDQ	V Q Q K	S S L L	- - - - -	K Y Y H K N N	F201 F193 F200 F199 A672 A730 [843]	
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SpiQ9BY41 HDAC4_HUMAN SpiQ9BY41 HDAC8_HUMAN SpiQ9BY41 HDAC8_HUMAN SpiQ92769 HDAC3_HUMAN SpiQ92769 HDAC2_HUMAN SpiQ9UBN7 HDAC6_HUMAN SpiQ9UBN7 HDAC6_HUMAN SpiQ9UBN7 HDAC9_HUMAN SpiQ9UKV0 HDAC9_HUMAN SpiQ9UKV0 HDAC5_HUMAN SpiQ9UQL6 HDAC5_HUMAN SpiQ9UQL6 HDAC4_HUMAN	W L L G G G G	G /HHHHHHHHHHHH	H H H H H H H H H H H H	A	K K K K K K K K K K K K K K K K K K K	DFSSDSSS	VEEEEATTTT	AAAAAAAP	S S S S C M M M	G G G G G G G G G G	F 0 F 0 F 0 F 0	Y Y Y Y F F F F Y Y Y Y Y Y Y Y Y Y Y Y	L V V F F F F F	N [N [N [N 3 N 3 N 3 N 3		A V I V I V A / A / A / A / A	L	G G A A A T T A	I I I A C A A A	L I L I R I K K	R I E I Q I L I	LLLLLL	R L L Q Q R Q Q	RKKKTQDQQ	V I Q Q K R	S S L L L	G 	K Y Y Y H K N N S	F201 -193 -200 -199 	
SpiP56524 HDAC4_HUMAN Q8WUI4:Sequence conflict SpiQ9BY41 HDAC8_HUMAN SpiQ15379 HDAC3_HUMAN SpiQ92769 HDAC2_HUMAN SpiQ13547 HDAC1_HUMAN SpiQ9UBN7 HDAC6_HUMAN SpiQ9UBN7 HDAC6_HUMAN SpiQ9UKV0 HDAC9_HUMAN SpiQ9UKV0 HDAC5_HUMAN SpiQ9UKV0 HDAC5_HUMAN SpiQ9UQL6 HDAC5_HUMAN SpiQ9UQL6 HDAC4_HUMAN SpiP56524 HDAC4_HUMAN Q8WUI4:Sequence conflict	L WLLLGGGGG K	G HHHHHHHHH	H H H H H H H H H H H H H H H H H H H	A	KKKKKK GHEEEE	D F S D S S S F	V EEEEATTTT F	AAAAAAA P	S S S S C M M M M	G G G G G G G G G G	F C F C F C F C F C F C F C F C F C F C	YYYYY	LVVVFFFFF	N I N I N I N S N S N S		A V A V I V I V I V A V A V A V A V A V	LILVIIIV	G G A A A T T A	I I I A C A A A	L I L I R I K K	R I E I I I I I I I I I I I I I I I I I	LLLLLL	R L L L Q Q R Q Q	R K K T Q D Q Q	V Q Q K R S	S S L L L V	G N	KYYYHKNNS	F201 F193 F200 F199 A672 A730 [843 \893 \863	
■ sp P56524 HDAC4_HUMAN Q8WUI4:Sequence conflict \$\frac{3}{2}\text{ sp Q9BY41 HDAC8_HUMAN}\$\$ \$\frac{3}{2}\text{ sp Q9BY41 HDAC3_HUMAN}\$\$ \$\frac{3}{2}\text{ sp Q92769 HDAC2_HUMAN}\$\$ \$\frac{3}{2}\text{ sp Q91BN7 HDAC6_HUMAN}\$\$\$ \$\frac{3}{2}\text{ sp Q9UBN7 HDAC6_HUMAN}\$\$\$\$ \$\frac{3}{2}\text{ sp Q9UKV0 HDAC9_HUMAN}\$	W L L L G G G G G K K	G HHHHHHHHH FY	HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH	A	KKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK	D S D S S S F F	V EEEEATTTT FF	AAAAAAAP PP	SSSSCMMMM GG	G G G G G G G G G G G G G G G G G G G	F C F C F C F C F C F C F C F C F C F C	YYYFFFY	LVVVFFFFF	N I N I N I N I N I N I N I N I		A V A V I V I V I V A V A V A V A V A V	LILLVIIIV	G G A A A T T A L A	IIIIACAAA	LI LI RI K K	R I E I I I I I I I I I I I I I I I I I	LLLLL	R L L L Q Q R Q Q Y Y	E RKKKTQDQQ YY	VIQQKR SC	H SSLLL	G N N	KYYYHKNNS VV	F201 -193 -200 -199 	
SpiP56524 HDAC4_HUMAN Q8WUI4:Sequence conflict \$\frac{3}{2}\text{ spiQ9BY41 HDAC8_HUMAN}\$\$ \$\frac{3}{2}\text{ spiQ9BY41 HDAC3_HUMAN}\$\$ \$\frac{3}{2}\text{ spiQ92769 HDAC2_HUMAN}\$\$ \$\frac{3}{2}\text{ spiQ9UBN7 HDAC6_HUMAN}\$\$\$ \$\frac{3}{2}\text{ spiQ9UBN7 HDAC6_HUMAN}\$\$\$ \$\frac{3}{2}\text{ spiQ9UKV0 HDAC9_HUMAN}\$\$\$\$\$\$ \$\frac{3}{2}\text{ spiQ9UKV0 HDAC9_HUMAN}\$	WLLLGGGGG KKK	G HHHHHHHHH FYY	H H H H H H H H H H H H H H H H H H H	A	KKKKKCHEEE	D S D S S S F F -	V EEEEATTTT FFF	AAAAAAAP PPP	SSSSCMMMM GGG	G G G G G G G G G G G G G G G G G G G	F C F C F C F C F C F C F C F C F C F C	YYYFFFFFF	L V V V F F F F F D D D	N I N I N I N I N I N I N I		A V	LILLVIIIV	GGAAATTA LAA	IIIIACAAA GEG	LI LI RI KK KK	R E E H Q Y L L G G G G I	LLLLLLRRK	R L L L Q Q R Q Q Y Y Y	E RKKKTQDQQ YYY	VIQQKR SCA	H SSLLL VLV	G NNN	KYYYHKNNS VVF	F201 F193 F200 F199 A672 A730 [843 \893 \863	
SpiQ9BY41 HDAC8_HUMAN SpiQ9BY41 HDAC8_HUMAN SpiQ9BY41 HDAC8_HUMAN SpiQ92769 HDAC3_HUMAN SpiQ92769 HDAC2_HUMAN SpiQ9UBN7 HDAC6_HUMAN SpiQ9UBN7 HDAC6_HUMAN SpiQ9UBN7 HDAC5_HUMAN SpiQ9UKV0 HDAC9_HUMAN SpiQ9UKV0 HDAC5_HUMAN SpiQ9UKV0 HDAC4_HUMAN SpiQ9UQL6 HDAC5_HUMAN SpiQ9UQL6 HDAC4_HUMAN SpiQ9BY41 HDAC8_HUMAN SpiQ9BY41 HDAC8_HUMAN SpiQ9BY41 HDAC3_HUMAN SpiQ92769 HDAC3_HUMAN	WLLLGGGGG KKKK	G HHHHHHHHH FYYY	HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH	A A A A A A A A A A A A A A A A A A A	KKKKKCHEEE	D F S D S S S F F	V EEEEATTTT FFFF	AAAAAAAP PPPP	SSSSCMMMM GGGG	G G G G G G G G G G	F C F C F C F C F C F C F C F C F C F C	YYYYFF FFY GGG	L V V V F F F F F D D D D	N I N I N I N I N I N I N I N I I		A V I V I V A V A V A V A V A V A V A V	L I L L V I I I V G G G G	GGAAAATTA LAAA	I I I I A C A A A G E G G	LILI LILI RKK KK	REEHQYLL	LLLLLL	R L L L Q Q R Q Q Y Y Y Y	E RKKKTQDQQ YYYY	VIQQKR SCAA	H SSLLL VLVV	G NNN	KYYYHKNNS VVFY	F201 -193 -200 -199 	
■ sp P56524 HDAC4_HUMAN Q8WUI4:Sequence conflict \$\frac{1}{2}\text{ sp Q9BY41 HDAC8_HUMAN}\$\$ \$\frac{1}{2}\text{ sp Q9BY41 HDAC8_HUMAN}\$\$ \$\frac{1}{2}\text{ sp Q92769 HDAC2_HUMAN}\$\$ \$\frac{1}{2}\text{ sp Q9UBN7 HDAC6_HUMAN}\$\$\$ \$\frac{1}{2}\text{ sp Q9UBN7 HDAC6_HUMAN}\$\$\$\$ \$\frac{1}{2}\text{ sp Q9UKV0 HDAC9_HUMAN}\$	WLLLGGGGG KKKKR	G HHHHHHHH FYYYY	HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH	A A A A A A A A A A A A A A A A A A A	KKKKKCHEEE	DFSSDSSS FF F	V EEEEATTTT FFFFF	AAAAAAAP PPPPP	SSSSCMMMM GGGGM	G G G G G G G G G G G G G G G G G G G	F C F C F C F C F C F C F C F C F C F C	Y Y Y F F F F F G G G G G G G G G G G G	LVVVFFFFF DDDDA	NININI NINI NINI NINI NINI NINI NINI N		A V V I V V A V A V A V A V A V A V A V	LILLVIIIV GGGGG	GGAAATTA LAAAR	IIIIACAAA GEGGA	LILLIRKK KSKKK	REELHALL GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	LLLLLLL	R L L L Q Q R Q Y Y Y Y G	E RKKKTQDQQ YYYYF	VIQQKR SCAAT	H SSLLL VLVVV	G NNNN	KYYYHKNNS VVFYV	F201 H193 H200 H199 A672 A730 I843 \893 \863 F258 F250 F256 F255 A733	
■ sp P56524 HDAC4_HUMAN Q8WUI4:Sequence conflict □ sp Q9BY41 HDAC8_HUMAN □ sp Q9E769 HDAC3_HUMAN □ sp Q92769 HDAC2_HUMAN □ sp Q9UBN7 HDAC6_HUMAN □ sp Q9UBN7 HDAC6_HUMAN □ sp Q9UKV0 HDAC9_HUMAN □ sp Q9UKV0 HDAC9_HUMAN □ sp Q9UQL6 HDAC5_HUMAN □ sp P56524 HDAC4_HUMAN □ sp Q9BY41 HDAC8_HUMAN □ sp Q9BY41 HDAC8_HUMAN □ sp Q9E769 HDAC3_HUMAN □ sp Q92769 HDAC3_HUMAN □ sp Q92769 HDAC1_HUMAN □ sp Q9UBN7 HDAC6_HUMAN	WLLLGGGGG KKKKRR	G HHHHHHHHH FYYYH	HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH	A A A A A A A A A A A A A A A A A A A	KKKKKGHEEE	DFSSDSSS FF - FF	V EEEEATTTT FFFFF	AAAAAAAP PPPPP	SSSSCMMMM GGGGMG	G G G G G G G G G G G G G G G G G G G	F C F C F C F C F C F C F C F C F C F C	YYYYFFY	LVVVFFFFF DDDDAA	NININI NINI NINI NINI NINI NINI		A V I V I V I V A A A V A A A V A A V A A V A A V A A V A A V A A V A A V A A V A A A V A A A V A A A V A A A V A A A A V A A A V A A A A V A A A A A V A	LILLVIIIV GGGGGG	GGAAAATTA LAAARA	IIIIACAAA GEGGAG	LILI LILI RKK KKK KKK KKK KKK KKK KKK KKK KKK KK	REEHQYLL GGGGGG	LLLLLLRRKKTE	R L L L Q Q R Q Q Y Y Y Y G G	E RKKKTQDQQ YYYYFF	VIQQKR SCAATN	H SSLLL VLVVV	G NNNNN	KYYYHKNNS VVFYVV	F201 -193 -200 -199 	
■ Sp P56524 HDAC4_HUMAN Q8WUI4:Sequence conflict Sp Q9BY41 HDAC8_HUMAN Sp Q15379 HDAC3_HUMAN Sp Q92769 HDAC2_HUMAN Sp Q9UBN7 HDAC6_HUMAN Sp Q9UBN7 HDAC6_HUMAN Sp Q9UBN7 HDAC6_HUMAN Sp Q9UKV0 HDAC9_HUMAN Sp Q9UKV0 HDAC5_HUMAN Sp Q9UKV0 HDAC4_HUMAN Sp Q9UQL6 HDAC5_HUMAN Sp Q9UQL6 HDAC4_HUMAN Sp Q9BY41 HDAC8_HUMAN Sp Q9BY41 HDAC3_HUMAN Sp Q9BY41 HDAC3_HUMAN Sp Q92769 HDAC2_HUMAN Sp Q9UBN7 HDAC6_HUMAN Sp Q9UBN7 HDAC6_HUMAN Sp Q9UBN7 HDAC6_HUMAN Sp Q9UBN7 HDAC6_HUMAN	WLLLGGGGG KKKKRRR	G HHHHHHHHH FYYYHY	HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH	AAAAAAA PNYY	KKKKCHEEETNN	DISSIS FF FIF	V EEEEATTTT FFFFFF	AAAAAAAP PPPPPP	SSSSCMMMM GGGGMGG	G G G G G G G G G G G G G G G G G G G	F C F C F C F C F C F C F C F C F C F C	YYYFFFY	LVVVFFFFF DDDDAAA	N [N [N [N [N [N [N [N [N [N [A V V I V V A V A V A V A V A V A V A V	LILLVIIIV GGGGGG	GGAAATTA LAAARAT	I I I I A C A A A G E G G A G G	LILLIRKK KSKK KSKK KSKK KSKK KSKK KSKK KSKK	REEHQYLL GGGGGGG	LLLLLLL	R L L L Q Q R Q Y Y Y Y G G G	E RKKKTQDQQ YYYYFFY	VIQQKR SCAATNN	H SSLLL VLVVVI	G NNNNNN	KYYYHKNNS VVFYVVI	F201 -193 -200 -199 	
■ Sp P56524 HDAC4_HUMAN Q8WUI4:Sequence conflict Sp Q9BY41 HDAC8_HUMAN Sp Q15379 HDAC3_HUMAN Sp Q92769 HDAC2_HUMAN Sp Q9UBN7 HDAC6_HUMAN Sp Q9UBN7 HDAC6_HUMAN Sp Q9UKV0 HDAC9_HUMAN Sp Q9UKV0 HDAC5_HUMAN Sp Q9UQL6 HDAC5_HUMAN Sp Q9UQL6 HDAC4_HUMAN Sp Q9BY41 HDAC8_HUMAN Sp Q9BY41 HDAC8_HUMAN Sp Q9BY41 HDAC3_HUMAN Sp Q92769 HDAC2_HUMAN Sp Q92769 HDAC2_HUMAN Sp Q92769 HDAC1_HUMAN Sp Q9UBN7 HDAC6_HUMAN Sp Q9UBN7 HDAC6_HUMAN Sp Q9UBN7 HDAC6_HUMAN Sp Q9UBN7 HDAC6_HUMAN Sp Q9UKV0 HDAC9_HUMAN	WLLLGGGGG KKKKRRRR	G HHHHHHHHH FYYYHYY	HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH	AAAAAAA PNYY	KKKKGHEEETNNN	DFSSDSSS FF - FFIF	V EEEEATTTT FFFFFFF	AAAAAAAP PPPPPPP	SSSSCMMMM GGGGMGGG	G G G G G G G G G G G G G G G G G G G	F C F C F C F C F C F C F C F C F C F C	YYYYFFY GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	LVVVFFFFF DDDDAAAA	N [N [N] N] N] N] N] N] N]		A V V I V V A V A V A V A V A V A V A V	LILLVIIIV GGGGGGGG	GGAAAATTA LAAARATG	IIIIACAAA GEGGAGGG	LILIRRKK KSKKASLP	REEH QYLL GGGGGGGGG	LLLLLLL	R L L L Q Q R Q Q Y Y Y Y G G G G	E RKKKTQDQQ YYYYFFYY	VQQKR SCAATNNN	H SSLLL VLVVVIV	G NNNNNNN	KYYYHKNNS VVFYVVIV	F201 H193 H200 H199 A672 A730 843 \893 \863 F258 F250 F256 F256 F255 A733 A792 A905	

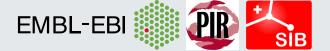
Q8WUI4:Sequence conflict AVVLQLGADTIAGD - - PMCSFNMTPVGIGKCL319 sp|Q9BY41|HDAC8_HUMAN CIVLQCGADSLGCD - - RLGCFNLSIRGHGEC V311 sp|O15379|HDAC3_HUMAN AVVLQCGADSLSGD - - RLGCFNLTVKGHAKC 1/317 sp|Q92769|HDAC2_HUMAN AVVLQCGSDSLSGD - - RLGCFNLTIKGHAKC V316 sp|Q13547|HDAC1_HUMAN L V L V S A G F D A A R G D - - P L G G C Q V S P E G Y A H L 1795 sp|Q9UBN7|HDAC6_HUMAN L V L V S A G F D A A E G H P A P L G G Y H V S A K C F G Y M T856 ✓ № sp|Q8WUI4|HDAC7_HUMAN M V L V S A G F D A L E G H T P P L G G Y K V T A K C F G H L T969 🗸 🐉 sp|Q9UKV0|HDAC9_HUMAN VVLVSAGFDAVEGHLSPLGGYSVTARCFGHLT1019 🗸 🐉 sp|Q9UQL6|HDAC5_HUMAN V V L V S S G F D A V E G H P T P L G G Y N L S A R C F G Y L 1989 sp|P56524|HDAC4_HUMAN **Q8WUI4:Sequence conflict** GVILGKTLSSEIPDHEFFTAYGPDYVLEITF377 sp|Q9BY41|HDAC8_HUMAN S L L V E E A I S E E L P Y S E Y F E Y F A P D F T L H P D \372 sp|O15379|HDAC3_HUMAN AVALDCEIPNELPYNDYFEYFGPDFKLHISF377 spiQ92769|HDAC2 HUMAN AVALDTEIPNELPYNDYFEYFGPDFKLHIS [376 sp|Q13547|HDAC1_HUMAN R S L L G D P P - - - - - - - - - - - P L L T L P R P F840 sp|Q9UBN7|HDAC6_HUMAN A A L L G N R V D P - L - - - - - - - - S E E G W K Q K F904 ✓ № sp|Q8WUI4|HDAC7_HUMAN N A L L G N E L E P - L - - - - - - - A E D | L H Q S F1011 🗸 🐉 sp|Q9UKV0|HDAC9_HUMAN S A L L S V E L Q P - L - - - - - - - - D E A V L Q Q K F1067 🗸 🐉 sp|Q9UQL6|HDAC5_HUMAN SALLGNELDP-L-----PEKVLQQR F1037 ✓ № sp|P56524|HDAC4_HUMAN **Q8WUI4:Sequence conflict** sp|Q9BY41|HDAC8_HUMAN PSVQIH-----DVPADLLTYDRTDEADA [412 sp|O15379|HDAC3_HUMAN PGVQMQ----AIPEDAVHEDSGDEDGE[420 sp|Q92769|HDAC2_HUMAN PGVQMQ----AIPEDAIPEESGDEDED[419 sp|Q13547|HDAC1_HUMAN DREGPSSSKLVTKKAPQPAKPR----LAERN899 sp|Q9UBN7|HDAC6_HUMAN PDSWV - - PR - - - - - VP - GADKE - - - - EVEA \942 ✓ № sp|Q8WUI4|HDAC7_HUMAN V sp|Q9UKV0|HDAC9_HUMAN LGRSL - - RE - - - - AQ - AGETE - - - - EAET \1114 sp|Q9UQL6|HDAC5_HUMAN AGRSL - - | E - - - - AQ - TCENE - - - - EAET \1076 ✓ № sp|P56524|HDAC4_HUMAN **Q8WUI4:Sequence conflict** sp|Q9BY41|HDAC8_HUMAN ----FYDGDHDNDK------428 sp|O15379|HDAC3_HUMAN - - - - - F S D S E D E G E G G R R N V A D H K - - - K (463 sp|Q92769|HDAC2_HUMAN ----FSDSEEEGEGGRKNSSNFK---K/461 sp|Q13547|HDAC1_HUMAN T A V V A L T Q D Q P S E A A T G G A T L A Q T I S E A A I (963 sp|Q9UBN7|HDAC6_HUMAN - - - L V E E E E P M N L - - - - - - - - - - - -🗸 🐉 sp|Q8WUI4|HDAC7_HUMAN V sp|Q9UKV0|HDAC9_HUMAN - - PMEQEPAL 🗸 🐉 sp|Q9UQL6|HDAC5_HUMAN _ _ _ _ _ .1122 sp|P56524|HDAC4_HUMAN **Q8WUI4:Sequence conflict** sp|Q9BY41|HDAC8_HUMAN 377 sp|O15379|HDAC3_HUMAN 428

EDKSKDNSGEKTDTKGTKSE--------

☐ № sp Q92769 HDAC2_HUMAN	F	F	K	Т	K	F	F	_	-	_	K	Р	F	А	K	G	V	K	F	F	-			-		_	_	-	_	-	_	488
sp Q13547 HDAC1_HUMAN																						V (3 (3	Α	т	ı	А	O	т	Т	482
sp Q9UBN7 HDAC6_HUMAN	_	` -			-		_		_		_		-		_				-	_ ′	_`	_ `	_	_	_		-	_	_			1027
✓ № sp Q8WUI4 HDAC7_HUMAN	_	_	_		_		_	_	_	_	_	_	_	_		_				_	_			_	_	_	_		_	_		952
✓ № sp Q9UKV0 HDAC9_HUMAN	_	_		_	_	_	_	_		_	_	_	_	_	_	_	_	_	_	_	_		_	_	_	_	_		_	_	_	1011
✓ № sp Q9UQL6 HDAC5_HUMAN	_	_	_		_		_	_	_	_	_	_	_	_		_	_	_		_	_			_	_	_	_		_	_	_	1122
sp P56524 HDAC4_HUMAN																																1084
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spiQ9BY41 HDAC8_HUMAN	_	_									_			_						_	_		_	_		_				_		377
sp O15379 HDAC3_HUMAN	_	_			_	_	_	_		_	_	_	_	_	_	_	_	_	_	_	_			_	_	_	_		_	_	_	428
sp Q92769 HDAC2_HUMAN	_		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_		_		_	_	_	_	_	_	_		_	488
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✓ № sp Q9UQL6 HDAC5_HUMAN	_	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		_	-	-	-	-	-	-	-	-	1122
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sp Q92769 HDAC2_HUMAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	488
sp Q13547 HDAC1_HUMAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	- :	- :	-	-	-	-	-	-	-	_	482
sp Q9UBN7 HDAC6_HUMAN	M	I Q	G	S	R	G	L	Т	D	Q	Α	ı	F	Y	A	V	Τ	Ρ	L	Р١	N	C F	P	Η	L	V	Α	V	С	Ρ		1155
✓ № sp Q8WUI4 HDAC7_HUMAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	952
✓ № sp Q9UKV0 HDAC9_HUMAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	1011
✓ № sp Q9UQL6 HDAC5_HUMAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-		1122
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sp Q92769 HDAC2_HUMAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-		-			488
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sp Q8WUI4 HDAC7_HUMAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-			.952
✓ § sp Q9UKV0 HDAC9_HUMAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-			.1011
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