Advanced | List

Align results

Map IDs Download © Resubmit	Overview Trees F	erc	ent	lde	entit	ty N	latr	ix	1	Гехt	i Oı	ıtpı	ıt	lr	npu	t Pa	arar	net	ers		ΑP	I Re	equ	est	:									
a sp(088749) IDAGE, HUMAN	Map IDs ± Download ⓒ	Re	sub	mit																														
a sp(0187789HDAC2_HUMAN	"Similarity" highlight ▼ S	how	ing	"Biı	ndin	ıg s	ite"	in "	sp 0	78W	/UI4	ΙHD	AC7	7_HI	UM	AN"	•	٧	iew	: C	0	verv	riew		N	/rap	ped							
\$ sp(027789/FDAC2_HUMAN 0	sp Q9BY41 HDAC8_HUMAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_	0
a sp)0281847 PDACE_HUMAN	sp O15379 HDAC3_HUMAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_	0
a sp(0808NT)PhOACE_HUMAN	sp Q92769 HDAC2_HUMAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
✓ ■ sp 038WU4 PIDACE_HUMAN	sp Q13547 HDAC1_HUMAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
✓ a spj0900Ucspj0AcCg_HUMAN M N S P N E S D G M S G R E P S L E I L P R T S L H S I P V T V 61 ✓ a spj090SEAPHDACE_HUMAN M N S P N E S D G M S G R E P S L E I L P R T S L H S I P V T V 61 ✓ a spj09SEAPHDACE_HUMAN M S S Q S H P D G L S G R D Q P V E L L N P A R V N H M P S T V 66 QBWU14:Binding site a spj015379HDAC3_HUMAN □ a spj015379HDAC3_HUMAN □ a spj015379HDAC3_HUMAN □ a spj015379HDAC2_HUMAN P P V E P P P E P T L L A L Q R P Q R L H H H L 44 ✓ a spj039UCspjHDAC2_HUMAN M M M P V V D P V V R E K Q L Q Q E L L A L K Q Q Q L Q K Q L 125 ✓ a spj039UCspjHDAC3_HUMAN A L V G S V D P T L R E Q Q L Q Q E L L A L K Q K Q Q L Q K Q L 125 QBWU14:Binding site P S L P V A E P A L R E Q Q L Q Q E L L A L K Q K Q Q I Q R Q I 120 □ a spj039USVijHDAC3_HUMAN M T S T G Q D S T T T R 17 ✓ a spj039USVijHDAC3_HUMAN M T S T G Q R Q E Q E V E R 149 ✓ a spj039USVijHDAC5_HUMAN M T S T G Q R Q E Q E V E R 149 ✓ a spj039USVijHDAC5_HUMAN M T S T G Q R Q E Q E V E R 149 ✓ a spj039USVijHDAC5_HUMAN R Q E Q E V E R 149 ✓ a spj039USVijHDAC5_HUMAN R Q E Q E V E L E K 157 QBWU14:Binding site M K H Q Q E L L E H Q R	sp Q9UBN7 HDAC6_HUMAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
▼ a sp(038UQLE,HIDACS,HUMAN M N S P N E S D G M S G R E P S L E I L P R T S L H S I P V T V 6 61 ▼ a sp(038P41 HDACS,HUMAN M S S Q S H P D G L S G R D Q P V E L L N P A R V N H M P S T V 5 65 Q8WU14:Binding site ▼ a sp(038P41 HDACS,HUMAN □ a sp(013879)HDACS,HUMAN □ 0 □ a sp(0318AT)HDACS,HUMAN □ 0 ▼ a sp(038V41 HDACS,HUMAN □ 0 ▼ a sp(038V41 HDACS,HUMAN □	✓ № sp Q8WUI4 HDAC7_HUMAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8
© 8 Sp)PG8524 HDAC3, HUMAN □ 8 Sp)CG857 HDAC3, HUMAN □ 8 SP)CG857 HD	sp Q9UKV0 HDAC9_HUMAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	M	Н	S	M	I	S	S	V	31
3 sp 038741 HDAC8_HUMAN	sp Q9UQL6 HDAC5_HUMAN																		_	I		-								Ρ	V		•	
3s sp(Q8BY41 HDAC8_HUMAN	sp P56524 HDAC4_HUMAN	M	S	S	Q	S	Н	Ρ	D	G	L	S	G	R	D	Q	Ρ	V	Ε	L	L	N	Ρ	A	R	V	Ν	Η	M	Ρ	S	Т	V	56
□ a spi015379jHDAC3_HUMAN □ spi029769jHDAC2_HUMAN □ spi029769jHDAC2_HUMAN □ spi02910400jHDAC6_HUMAN □ 0 □ a spi028WUHIPDAC7_HUMAN □ 0	Q8WUI4:Binding site																																	ack
□ a spi015379jHDAC3_HUMAN □ spi029769jHDAC2_HUMAN □ spi029769jHDAC2_HUMAN □ spi02910400jHDAC6_HUMAN □ 0 □ a spi028WUHIPDAC7_HUMAN □ 0	sp Q9BY41 HDAC8_HUMAN																					_		_		_						_		-eedk
a spiQ33769HDAC2_HUMAN	sp O15379 HDAC3_HUMAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	١.	
□ a spiQauBa7ifhDAC6_HUMAN P V E P P P E P T L L A L Q R P Q R L H H H L 44 ✓ a spiQauBa7ifhDAC9_HUMAN P P V E P P P E P T L L A L Q R P Q R L H H H L 44 ✓ a spiQauBa7ifhDAC9_HUMAN M M M P V V D P V V R E K Q L Q Q E L L L I Q Q Q Q I Q K Q L 92 ✓ a spiQauBa7ifhDAC9_HUMAN A L V G S V D P T L R E Q Q L Q Q E L L A L K Q Q Q Q L Q K Q L 125 ✓ a spiQauBa7ifhDAC4_HUMAN F S L P V A E P A L R E Q Q L Q Q E L L A L K Q K Q Q I Q R Q I 120 Q8WUI4:Binding site □ a spiQauBa7ifhDAC6_HUMAN	sp Q92769 HDAC2_HUMAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
✓ 3 sp QB8WUI4 HDAC7 HUMAN P P V E P P P E P T L L A L Q R P Q R L H H H L 44 ✓ 3 sp QB9UKV0 HDAC9 HUMAN M M M M P V V D P V V R E K Q L Q Q E L L L I Q Q Q Q I Q K Q L 92 ✓ 3 sp QB9UG6 HDAC5 HUMAN A L V G S V D P T L R E Q Q L Q Q E L L A L K Q Q Q Q L Q K Q L 125 ✓ 3 sp QB9E41 HDAC4 HUMAN F S L P V A E P A L R E Q Q L Q Q E L L A L K Q K Q Q I Q R Q I 120 Q8WUI4:Binding site	sp Q13547 HDAC1_HUMAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
✓ a spiQaukvojihdac9_Human M M M P V V D P V V R E K Q L Q Q E L L L I Q Q Q Q Q I Q K Q L 125 ✓ a spiQauque,iihdac5_Human A L V G S V D P T L R E Q Q L Q Q E L L A L K Q Q Q Q L Q K Q L 125 ✓ a spiQastai,indac4_Human F S L P V A E P A L R E Q Q L Q Q E L L A L K Q K Q Q I Q R Q I 120 Q8WU14:Binding site B spiQastai,indac4_Human □ a spiQastai,indac4_Human M T S T G Q D S T T T R 17 ✓ a spiQastai,indac4_Human M T S T G Q D S T T T R 17 ✓ a spiQastai,indac5_Human M T S T G Q D S T T T R 17 ✓ a spiQastai,indac5_Human M T S T G Q R Q E Q E V E R 149 ✓ a spiQastai,indac5_Human P M R L S M D T P M P E L Q V 91 ✓ a spiQastai,indac4_Human A K Q Q Q E M L A A K R Q Q E L E Q Q R Q R Q R Q E E L E K 189 ✓ a spiQastai,indac4_Human M K H Q Q E L L E H Q R K L E R H R Q E Q E L E K 177 Q8WU14:Binding site	sp Q9UBN7 HDAC6_HUMAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
✓ a spiglogualejhdacs_human A L V G S V D P T L R E Q Q L Q Q E L L A L K Q Q Q Q L Q K Q L 125 ✓ a spiplosszejhdaca_human F S L P V A E P A L R E Q Q L Q Q E L L A L K Q K Q Q I Q R Q I 120 Q8WUI4:Binding site □ a spiplosszejhdaca_human	✓ № sp Q8WUI4 HDAC7_HUMAN	Ρ	-	-	-	Ρ	٧	-	-	-	-	-	Ε	Ρ	Ρ	Ρ	Ε	Ρ	Т	L	L	Α	L	Q	R	Ρ	Q	R	L	Η	Η	Н	L	44
	sp Q9UKV0 HDAC9_HUMAN	Μ	Μ	Μ	Ρ	V	٧	D	Ρ	٧	٧	R	Ε	Κ	Q	L	Q	Q	Е	L	L	L	I	Q	Q	Q	Q	Q	I	Q	Κ	Q	L	92
Q8WUI4:Binding site □ a splQ9BY41 HDAC8_HUMAN 0 □ a splQ15379 HDAC3_HUMAN 0 □ a splQ92769 HDAC2_HUMAN 0 □ a splQ9BN7 HDAC6_HUMAN 0 □ a splQ9BN7 HDAC6_HUMAN 0 □ a splQ9BN7 HDAC6_HUMAN 0 □ a splQ9BNV0 HDAC9_HUMAN 0 □ a splQ9BV40 HDAC9_HUMAN 0 □ a splQ9BV40 HDAC9_HUMAN 0 □ a splQ9BV41 HDAC4_HUMAN 0 □ a splQ9BY41 HDAC4_HUMAN 0 □ a splQ9BY41 HDAC8_HUMAN 0 □ a splQ32769 HDAC2_HUMAN 0 □ a splQ34547 HDAC1_HUMAN 0	sp Q9UQL6 HDAC5_HUMAN	Α	L	٧	G	S	٧	D	Ρ	Τ	L	R	Ε	Q	Q	L	Q	Q	Е	L	L	Α	L	Κ	Q	Q	Q	Q	L	Q	Κ	Q	L	125
□ 3 SP QBBY41 HDAC8_HUMAN	sp P56524 HDAC4_HUMAN	F	S	L	Ρ	V	Α	Ε	Ρ	Α	L	R	Е	Q	Q	L	Q	Q	Е	L	L	Α	L	K	Q	K	Q	Q	I	Q	R	Q	I	120
38 SPIO15379 HDAC3_HUMAN	Q8WUI4:Binding site																																	
3 sp Q92769 HDAC2_HUMAN	sp Q9BY41 HDAC8_HUMAN	_	_	_		_	_	_	_	_	_	_	_		_	_		_	_	_	_	_	_	_	_	_	_	_	_	_	_		_	0
S SP Q313547 HDAC1_HUMAN M T S T G Q D S T T T R 17 ✓ S SP Q9WUI4 HDAC7_HUMAN M T S T G Q M R L S M D T P M P E L Q V 91 ✓ S SP Q9UKV0 HDAC9_HUMAN I K Q Q Q E L L E K E Q K L E Q Q R Q E Q E V E R 149 ✓ S SP Q9UQL6 HDAC5_HUMAN A K Q Q Q E M L A A K R Q Q E L E Q Q R Q R E Q Q R Q E E L E K 189 ✓ S SP P56524 HDAC4_HUMAN M K H Q Q E L L E H Q R K L E R H R Q E Q E L E K 177 Q8WUI4:Binding site	sp O15379 HDAC3_HUMAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_	0
3 sp Q9UBN7 HDAC6_HUMAN MTSTGQ DSTTTR17 ✓ 3 sp Q8WUI4 HDAC7_HUMAN MRLSMDTPMPELQV91 ✓ 3 sp Q9UKV0 HDAC9_HUMAN I KQQQELLEKEQKLEQQ RQEQEVER149 ✓ 3 sp Q9UQL6 HDAC5_HUMAN A KQQQEMLAAKRQQELEQQRQREQQRQEELEK189 ✓ 3 sp P56524 HDAC4_HUMAN MKHQQELLEHQRKLERH RQEQELEK177 Q8WUI4:Binding site	sp Q92769 HDAC2_HUMAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_	0
✓ 3a SPJQ8WUI4 HDAC7_HUMAN P MRLSMDTPMPELQV91 ✓ 3a SPJQ9UKV0 HDAC9_HUMAN I KQQQELLEKEQKLEQQ RQEQEVER149 ✓ 3a SPJQ9UQL6 HDAC5_HUMAN A KQQQEMLAAKRQQELEQQRQREQQEELEK 189 ✓ 3a SPJQ956524 HDAC4_HUMAN MKHQQELLEHQRKLERH RQEQELEK 177 Q8WUI4:Binding site	sp Q13547 HDAC1_HUMAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_	0
✓ 3 sp Q9UKV0 HDAC9_HUMAN I K Q Q Q E L L E K E Q K L E Q Q R Q E Q E V E R 149 ✓ 3 sp Q9UQL6 HDAC5_HUMAN A K Q Q Q E M L A A K R Q Q E L E Q Q R Q R E Q Q R Q E E L E K 189 ✓ 3 sp P56524 HDAC4_HUMAN M K H Q Q E L L E H Q R K L E R H R Q E Q E L E K 177 Q8WUI4:Binding site R Q E Q E L E K 177 □ 3 sp Q9BY41 HDAC8_HUMAN	sp Q9UBN7 HDAC6_HUMAN	-	-	-	-	-	-	Μ	Τ	S	Τ	G	Q	-	-	-	-	-	-	-	-	-	-	-	-	-	-	D	S	Τ	Τ	Т	R	17
✓ 3 sp Q9UQL6 HDAC5_HUMAN ✓ 3 sp P56524 HDAC4_HUMAN ✓ MKHQQELLEHQRKLERH RQEQELEK 177 Q8WUI4:Binding site 3 sp Q9BY41 HDAC8_HUMAN	✓ № sp Q8WUI4 HDAC7_HUMAN	-	-	-	-	-	-	-	-	-	Ρ	-	-	-	-	-	-	-	-	Μ	R	L	S	Μ	D	Τ	Ρ	Μ	Ρ	Е	L	Q	V	91
✓ \$ sp P56524 HDAC4_HUMAN MKHQQELLEHQRKLERH RQEQELEK 177 Q8WU14:Binding site	sp Q9UKV0 HDAC9_HUMAN		Κ	Q	Q	Q	Ε	L	L	Ε	Κ	Ε	Q	Κ	L	Ε	Q	Q	-	-	-	-	-	-	-	R	Q	Ε	Q	Е	٧	Ε	R	149
Q8WUI4:Binding site \$\frac{1}{20} \text{ sp Q9BY41 HDAC8_HUMAN}\$ 0 \$\frac{1}{20} \text{ sp Q15379 HDAC3_HUMAN}\$ 0 \$\frac{1}{20} \text{ sp Q92769 HDAC2_HUMAN}\$ 0 \$\frac{1}{20} \text{ sp Q13547 HDAC1_HUMAN}\$ 0	sp Q9UQL6 HDAC5_HUMAN	Α	Κ	Q	Q	Q	Ε	Μ	L	Α	Α	Κ	R	Q	Q	Ε	L	Ε	Q	Q	R	Q	R	Ε	Q	Q	R	Q	Ε	Е	L	Ε	K	189
SpiQ9BY41 HDAC8_HUMAN 0 SpiQ15379 HDAC3_HUMAN 0 SpiQ92769 HDAC2_HUMAN 0 SpiQ13547 HDAC1_HUMAN 0	sp P56524 HDAC4_HUMAN	M	K	Н	Q	Q	Е	L	L	Е	Н	Q	R	K	L	Е	R	Н	-	-	-	-	-	-	-	R	Q	Е	Q	Е	L	Е	K	177
S sp O15379 HDAC3_HUMAN 0 S sp Q92769 HDAC2_HUMAN 0 S sp Q13547 HDAC1_HUMAN 0	Q8WUI4:Binding site																																	
SpiQ15379 HDAC3_HUMAN 0 SpiQ92769 HDAC2_HUMAN 0 SpiQ13547 HDAC1_HUMAN 0	sp Q9BY41 HDAC8_HUMAN					_			_	_	_	_			_					_		_		_		_		_	_				_	0
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spiQ13547 HDAC1_HUMAN	=	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_	0
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▼ 3 SPIQ8WUI4 HDAC7_HUMAN VILKKQQAALERT V HPNSPGIPYRTLE 144	✓ № sp Q8WUI4 HDAC7_HUMAN	٧	1	L	Κ	K	Q	Q	Α	Α	L	Е	R	Т	-	-	V	-	-	-	Н	Ρ	Ν	S	P	G	I	Ρ	Υ	R	Т	L	Е	144

✓ SpiQ9UKV0 HDAC9_HUMAN ✓ SpiQ9UQL6 HDAC5_HUMAN ✓ SpiP56524 HDAC4_HUMAN ✓ Market ✓ Mark	F	L	L	S	Κ	S	K	-	-	Ε	Ρ	Т	Ρ	G	G	LI	N	Н :	SL	/ S - P S	Q	Н	Ρ	Κ	С	W	G	Α	-	-	Н	
Q8WUI4:Binding site																																
sp Q9BY41 HDAC8_HUMAN	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_			_	_	_	_	_	_	_	_	_	_	_ (0
sp O15379 HDAC3_HUMAN	_	_	-	_	_	_	-	_	_	_	_	_	_	_	_	_	_	_			-		-	_	-	_	_	_			_ (0
sp Q92769 HDAC2_HUMAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	-	-	-	-	-	_ (0
sp Q13547 HDAC1_HUMAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	-	-	-	-	-	_ (0
sp Q9UBN7 HDAC6_HUMAN	-	-	-	-	-	-	-	-	-	Т	S	K	R	Ν	I	-	-	-			K	Κ	G	-	Α	V	Ρ	R	S	П	Р	68
✓ № sp Q8WUI4 HDAC7_HUMAN	Ρ	Ε	Н	F	Ρ	L	R	Κ	Τ	٧	S	Ε	Ρ	Ν	L	K	L	R'	Υŀ	(P	K	Κ	S	-	L	Ε	R	R	Κ	N	P	200
✓ № sp Q9UKV0 HDAC9_HUMAN	Κ	D	D	F	Ρ	L	R	Κ	Τ	Α	S	Ε	Ρ	Ν	L	K	V	R S	SF	R L	K	Q	Κ	V	Α	Ε	R	R	S	S	P	266
sp Q9UQL6 HDAC5_HUMAN	R	D	D	F	Ρ	L	R	Κ	Τ	Α	S	Ε	Ρ	Ν	L	K	V	R S	SF	R L	K	Q	Κ	V	Α	Ε	R	R	S	S	Ρ	310
sp P56524 HDAC4_HUMAN	Κ	D	D	F	Р	L	R	Κ	Τ	Α	S	Ε	Ρ	Ν	L	K	L	R S	SF	R L	K	Q	Κ	V	Α	Ε	R	R	S	S	Р	291
Q8WUI4:Binding site																																
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✓ 🐉 sp Q8WUI4 HDAC7_HUMAN																Εŀ				-	-	-	-	-	-	-	-		N	Ρ	2	254
✓ № sp Q9UKV0 HDAC9_HUMAN																				/ T											Ρ	330
sp Q9UQL6 HDAC5_HUMAN																				Α												372
sp P56524 HDAC4_HUMAN	С	S	S	A	Р	G	S	G	Р	S	S	Р	N	N	S	S (G :	S	V S	3 A	Ε	N	G	I	Α	Р	Α	V	Ρ	S	:	354
Q8WUI4:Binding site																																
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✓ № sp Q8WUI4 HDAC7_HUMAN	Т	L	G	L	Ρ	Α	Ρ	Α	R	Α	D	S	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	- 2	284
sp Q9UKV0 HDAC9_HUMAN					Р											-	-	-		-										Q		
sp Q9UQL6 HDAC5_HUMAN																		-	- H	1 L	Т	A	S	Ρ	K							
✓ № sp P56524 HDAC4_HUMAN	Т	L	G	L	Р	Α	Τ	G	Р	S	Α	G	Т	-	-	-	-	-		-	-	-	-	-	-	-	Α	G	Q	Q	D	388
Q8WUI4:Binding site																																
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sp Q9BY41 HDAC8_HUMAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	- (0 n
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sp Q9UKV0 HDAC9_HUMAN sp Q9UQL6 HDAC5_HUMAN	G S					-	-	-																								
✓ SpiQ9UKV0 HDAC9_HUMAN ✓ SpiQ9UQL6 HDAC5_HUMAN ✓ SpiP56524 HDAC4_HUMAN ✓ Market ✓ Mark	S	Т	S T	S	-	-	-	-	-	I	Ρ	G	С	L	L	G '	V	Α	L E	G	D	G	S	Ρ	Н	G	Н	Α	S	L	L	463

\$\frac{1}{2} \sp Q9BY41 HDAC8_HUMAN\$\$\frac{1}{2} \sp Q15379 HDAC3_HUMAN\$\$\frac{1}{2} \sp Q92769 HDAC2_HUMAN\$\$\frac{1}{2} \sp Q9UBN7 HDAC1_HUMAN\$\$\frac{1}{2} \sp Q9UBN7 HDAC6_HUMAN\$\$\$\frac{1}{2} \sp Q9UKV0 HDAC9_HUMAN\$\$\$\$\frac{1}{2} \sp Q9UKV0 HDAC9_HUMAN\$	- · · · · · · · · · · · · · · · · · · ·		Q	- Q	- - - K - -	- - H - -	- - R - -		- - R - -	- - R - -	- - - - - -	L			- - D		-	P P P	F L L	H H H	F P G	QAQQQ	Q S S	S P P	L L L	M A V	T T T	T K G	E E E	R R R	-	- P L V	0 0 0 300 367 458 507
\$\frac{1}{2}\$ sp \Q9BY41 HDAC8_HUMAN \$\frac{1}{2}\$ sp \Q15379 HDAC3_HUMAN \$\frac{1}{2}\$ sp \Q92769 HDAC2_HUMAN \$\frac{1}{2}\$ sp \Q13547 HDAC1_HUMAN \$\frac{1}{2}\$ sp \Q9UBN7 HDAC6_HUMAN \$\frac{1}{2}\$ sp \Q9UBN7 HDAC7_HUMAN \$\frac{1}{2}\$ sp \Q9UKV0 HDAC9_HUMAN \$\frac{1}{2}\$ sp \Q9UQL6 HDAC5_HUMAN \$\frac{1}{2}\$ sp \Q9UQL6 HDAC4_HUMAN \$\frac{1}{2}\$ sp \P56524 HDAC4_HUMAN	L L	P A Q	P Q Q	P L L	- - T G V V V	P I M	M Q Q	Q Q Q	P Q Q	R H H	L Q Q	E Q Q	Q F F	L L L	K E E	T K K	H Q Q	K K	Q Q	- Y -	- - -	- - -	- Q -	Q Q	Q Q	V I L	Q H Q	V M L	N G	K K K	I	- L S L	411
\$\frac{1}{2} \sp\Q9BY41\rightarrow \text{HUMAN}\$\$ \$\frac{1}{2} \sp\Q92769\rightarrow \text{HUMAN}\$\$ \$\frac{1}{2} \sp\Q92769\rightarrow \text{HDAC2}\rightarrow \text{HUMAN}\$\$\$ \$\frac{1}{2} \sp\Q9UBN7\rightarrow \text{HDAC6}\rightarrow \text{HUMAN}\$	F A L	- L	- - T	- M	Ρ	s R	D S E	G G G	G N S	G S T	- Т Е	R -	s -	D -	P S	S	Q A -	V C	V V	D D	D D	-	L L	G S	Q E	V S	G T	A Q	V E	-	-	- G -	430
\$\sq\Q9BY41\ HDAC8_HUMAN\$\ \$\sq\Q9BY41\ HDAC3_HUMAN\$\ \$\sq\Q92769\ HDAC2_HUMAN\$\ \$\sq\Q13547\ HDAC1_HUMAN\$\ \$\sq\Q9UBN7\ HDAC6_HUMAN\$\ \$\sq\Q9UBN7\ HDAC7_HUMAN\$\ \$\sq\Q9UKV0\ HDAC9_HUMAN\$\ \$\sq\Q9UKV0\ HDAC5_HUMAN\$\ \$\sq\Q9UQL6\ HDAC4_HUMAN\$\ \$\sq\Q9UQL6\ HDAC4_HUMAN\$\ \$\sq\Q9UQL6\ HDAC4_HUMAN\$\ \$\sq\Q9UU14:Binding site\$	H - G	G - E	Q - S	P - G	- M E - A	- L A - E	- E R - E	S G G	P P	- G A - D	- A P L	- P - Q E	- C - E	R -	- S -	- A -	- Q - M P	- A - E	S .	- V - G	- S - E	L Q -	- A Q A G	L Q A	E H F G	A P M Y	L Q Q K	E V Q K	- P L P	- F L F	W L S	E E D	0 0 0 0 459 484 609 659
sp Q9BY41 HDAC8_HUMAN sp O15379 HDAC3_HUMAN sp Q92769 HDAC2_HUMAN sp Q13547 HDAC1_HUMAN sp Q9UBN7 HDAC6_HUMAN	E			- - -	-		- - -		- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -		- - -	- - -	-	-	-	M	A M	Y A	s Q	Q T	S G Q L	-	22 29

✓ SpiQ8WUI4 HDAC7_HUMAN ✓ SpiQ9UKV0 HDAC9_HUMAN ✓ SpiQ9UQL6 HDAC5_HUMAN ✓ SpiP56524 HDAC4_HUMAN	H	S S	SSSS	P P	A A	A A	S P	V G	L G	Ρ	H K	P S	Α		- -	A - -	-	-	A - -	-	v - -	- -	-	-	-	M P	D D	R Q	P P P	L V	- - -	-	541 654 704 675	
Q8WUI4:Binding site sp Q9BY41 HDAC8_HUMAN sp O15379 HDAC3_HUMAN sp Q92769 HDAC2_HUMAN sp Q13547 HDAC1_HUMAN sp Q9UBN7 HDAC6_HUMAN sp Q8WUI4 HDAC7_HUMAN sp Q9UKV0 HDAC9_HUMAN sp Q9UKV0 HDAC5_HUMAN sp Q9UQL6 HDAC5_HUMAN sp Q9UQL6 HDAC4_HUMAN	PPPPPP	M M E E E	K K K	PPPAAA	HHHQGGG	RRRRRR		ARRLQQQ	L M M R S S	T T I I	H H M W W	SNNCSSS	LLLRRRR	V L L L L L	LLLEQQQ	HNNEEEE	YYYLRTT	GGGGGG		Y Y A R L	K R R G S N S	K K K R Q K	M M C C C	IEELEE	VIITCRR	F Y L L	KRRTRQR	PPPGGG	YHHRRRR	QKKPKKK	A A A	STNTSST	84 91 90 559 604 717	
Q8WUI4:Binding site Sp Q9BY41 HDAC8_HUMAN Sp Q9BY41 HDAC3_HUMAN Sp Q92769 HDAC2_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 P56524 HDAC4_HUMAN Q8WUI4:Binding site	H A L L	R G G G	E L D P	L D I	S L M M · A S S	N Q Q - Q Q Q	EARR - RKK	Y F F M F M	G N N N - F F Y	L V V V · V S A	G G G - M S V	Y D E E L L	D D D D P P P	C C C C C	P P P G G G	G G G	- - - V L	S G G G	S V V V	A	TFFFTSS	E P D D D D D D D	G G G G G S T T	 	F F F F W W	D E E I N N	YFFFCEEE	A C C C P L L M	A S Q Q S H H H	T S S S	F S S	- A N G S	830	
sp Q9BY41 HDAC8_HUMAN sp Q15379 HDAC3_HUMAN sp Q92769 HDAC2_HUMAN sp Q13547 HDAC1_HUMAN sp Q9UBN7 HDAC6_HUMAN sp Q8WUI4 HDAC7_HUMAN sp Q9UKV0 HDAC9_HUMAN sp Q9UKV0 HDAC5_HUMAN sp Q9UQL6 HDAC5_HUMAN sp P56524 HDAC4_HUMAN Q8WUI4:Binding site	L L G G G	H H H H H	H H H H H	AAAAAA	KKKEDEE	KKKQHEE	F S S D S S S	EEEATTT	A A A A A A	S S S C M M	G G G G G G	F F F F F	CCCCCC	Y Y F F F	V V F F F	N N N N N	D D S S S	 	V V A A A	 	G A A A A T T	I I A C A	L L R K K	E E H Q Y L	L L L L L	L L Q Q R Q	K K K T Q D Q	- - - Q K	- S S L L	- G -		HHAAIV	193 200 199 672 730 843 893	
\$\sp\Q9BY41\ HDAC8_HUMAN\$\\ \$\sp\Q9BY41\ HDAC3_HUMAN\$\\ \$\sp\Q92769\ HDAC2_HUMAN\$\\ \$\sp\Q92769\ HDAC2_HUMAN\$\\ \$\sp\Q9UBN7\ HDAC6_HUMAN\$\\ \$\sp\Q9UBN7\ HDAC7_HUMAN\$\\ \$\sp\Q9UBN7\ HDAC7_HUMAN\$\\ \$\sp\Q9UKV0\ HDAC9_HUMAN\$\\ \$\sp\Q9UKV0\ HDAC5_HUMAN\$\\ \$\sp\Q9UQL6\ HDAC5_HUMAN\$\\ \$\sp\Q9UQL6\ HDAC4_HUMAN\$\\	KKKRRRR	Y Y Y H Y Y	GGGDDD	NEEHDEN	YYYGGGG	- - T N N	F - F F F F	FFFFFF	PPPPP	G G G M G G	- - G -	- D -	TTESSS	G G G G G G	D D A A A	M L L S V P	Y R S D N E	E D D Q E E E	V 	G G G G G G	AAARATG	E G G G G G	SKKASLP	GGGGGG	R K K T E E V	YYYGGGG	YYYFFYY	CAATNN	L V V V I V	7 7 7 7 7 7	V V F Y V I V	P P A A A	250 256 255 733 792 905 955	

Q8WUI4:Binding site A V V L Q L G A D T I A G D - - P M C S F N M T P V G I G K C L 319 sp|Q9BY41|HDAC8_HUMAN C | V L Q C G A D S L G C D - - R L G C F N L S | R G H G E C V 311 sp|O15379|HDAC3_HUMAN A V V L Q C G A D S L S G D - - R L G C F N L T V K G H A K C V 317 sp|Q92769|HDAC2 HUMAN AVVLQCGSDSLSGD - - RLGCFNLTIKGHAKCV316 sp|Q13547|HDAC1_HUMAN LVLVSAGFDAARGD - - PLGGCQVSPEGYAHLT 795 sp|Q9UBN7|HDAC6_HUMAN LVLVSAGFDAAEGHPAPLGGYHVSAKCFGYMT 856 🗸 🐉 sp|Q8WUI4|HDAC7_HUMAN MVLVSAGFDALEGHTPPLGGYKVTAKCFGHLT spiQ9UKV0|HDAC9 HUMAN sp|Q9UQL6|HDAC5_HUMAN V V L V S A G F D A V E G H L S P L G G Y S V T A R C F G H L T 1019 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 T 989 sp|P56524|HDAC4_HUMAN **Q8WUI4:Binding site** GVILGKTLSSEIPDHEFFTAYGPDYVLEITPS377 sp|Q9BY41|HDAC8_HUMAN 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 V S 372 sp|O15379|HDAC3_HUMAN A V A L D C E I P N E L P Y N D Y F E Y F G P D F K L H I S P S 377 spiQ92769|HDAC2 HUMAN A V A L D T E I P N E L P Y N D Y F E Y F G P D F K L H I S P S 376 sp|Q13547|HDAC1_HUMAN RSLLGDPP - sp|Q9UBN7|HDAC6_HUMAN LGNRVDP-L-----SEEGWKQKPN904 ✓ № sp|Q8WUI4|HDAC7_HUMAN LGNELEP-L-----AEDILHQSPN 1011 🗸 🐉 sp|Q9UKV0|HDAC9_HUMAN S A L L S V E L Q P - L - - - - - - - D E A V L Q Q K P N 1067 🗸 🐉 sp|Q9UQL6|HDAC5_HUMAN S A L L G N E L D P - L - - - - - - - P E K V L Q Q R P N 1037 sp|P56524|HDAC4_HUMAN **Q8WUI4:Binding site** sp|Q9BY41|HDAC8 HUMAN P S V Q | H - - - - - - D V P A D L L T Y D R T D E A D A E E 412 sp|O15379|HDAC3_HUMAN - - - - - A | PEDAVHEDSGDEDGED - 420 sp|Q92769|HDAC2_HUMAN PGVQMQ - - - - - AIPEDAIPEESGDEDEDD - 419 sp|Q13547|HDAC1_HUMAN DREGPSSSKLVTKKAPQPAKPR----LAERMT899 sp|Q9UBN7|HDAC6_HUMAN - - - V P - G A D K E - - - E V E A V T 942 ✓ № sp|Q8WUI4|HDAC7_HUMAN V sp|Q9UKV0|HDAC9_HUMAN L G R S L - - R E - - - - A Q - A G E T E - - - E A E T V S 1114 🗸 🐉 sp|Q9UQL6|HDAC5_HUMAN AGRSL - - | E - - - - AQ - TCENE - - - EAETVT 1076 ✓ № sp|P56524|HDAC4_HUMAN **Q8WUI4:Binding site** sp|Q9BY41|HDAC8_HUMAN - FYDGDHDNDK sp|O15379|HDAC3_HUMAN - FSDSEDEGEGGRRNVADHK - - - KGA 463 sp|Q92769|HDAC2_HUMAN - FSDSEEEGEGGRKNSSNFK - - - KAK 461 sp|Q13547|HDAC1_HUMAN TQDQPSEAATGGATLAQTISEAAIGG963 sp|Q9UBN7|HDAC6_HUMAN ✓ № sp|Q8WUI4|HDAC7_HUMAN V sp|Q9UKV0|HDAC9_HUMAN 🗸 🐉 sp|Q9UQL6|HDAC5_HUMAN sp|P56524|HDAC4_HUMAN - PMEEEPPL **Q8WUI4:Binding site**

DKSKDNSGEKTDTKGTKSE------

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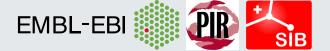
sp|Q9BY41|HDAC8_HUMAN

sp|O15379|HDAC3 HUMAN

sp Q92769 HDAC2_HUMAN	Е	Е	Κ	Т	Κ	Ε	Е	_	_	_	K	Ρ	Е	Α	K	G	V	K	Е	Е	_	_	_	_	_	_	_	_	_	_	_	_	488
sp Q13547 HDAC1_HUMAN	Q																						G	G	Α	Т	L	Α	Q	Т	Т	S	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
Q8WUI4:Binding site																																	
sp Q9BY41 HDAC8_HUMAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	377
sp O15379 HDAC3_HUMAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	428
sp Q92769 HDAC2_HUMAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	488
sp Q13547 HDAC1_HUMAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	482
sp Q9UBN7 HDAC6_HUMAN	D	Н	Q	Τ	Ρ	Ρ	Τ	S	Ρ	V	Q	G	Τ	Τ	Ρ	Q	I	S	Ρ	S	Τ	L		G	S	L	R	Τ	L	Ε	L	G	1091
✓ § sp Q8WUI4 HDAC7_HUMAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	952
sp Q9UKV0 HDAC9_HUMAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1011
sp Q9UQL6 HDAC5_HUMAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1122
sp P56524 HDAC4_HUMAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1084
Q8WUI4:Binding site																																	
sp Q9BY41 HDAC8_HUMAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		377
sp O15379 HDAC3_HUMAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		428
sp Q92769 HDAC2_HUMAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		488
sp Q13547 HDAC1_HUMAN	٠.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	<u>-</u>	-	.,	-	-	-		482
sp Q9UBN7 HDAC6_HUMAN	M	Q	G	S	R	G	L	I	D	Q	A	ı	F	Y	Α	V	I	Ρ	L	Ρ	۷V	C	Р	Н	L	V	Α	V	С	Р	ı		1155
sp Q8WUI4 HDAC7_HUMAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		952
sp Q9UKV0 HDAC9_HUMAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		1011
sp Q9UQL6 HDAC5_HUMAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1122
sp P56524 HDAC4_HUMAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1084
Q8WUI4:Binding site																																	
sp Q9BY41 HDAC8_HUMAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	377
sp O15379 HDAC3_HUMAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	428
sp Q92769 HDAC2_HUMAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	488
sp Q13547 HDAC1_HUMAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		482
sp Q9UBN7 HDAC6_HUMAN	Υ		Ν	G	Н	M	L	Q	Н	Η	G	Ν	S	G	Н	Ρ	L	V	L	S	Υ	I	D	L	S	Α	W	С	Υ	Υ	C	Q	1215
✓ § sp Q8WUI4 HDAC7_HUMAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		952
sp Q9UKV0 HDAC9_HUMAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1011
sp Q9UQL6 HDAC5_HUMAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1122
sp P56524 HDAC4_HUMAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1084

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