

B.

PIP PBD

Human_ING1b	MLSPANG EQ L	HLVNY VE DYL	DSIESL P FDL	QRNVSL M REI	DAKY Q EILKE	LDECYERFSR	60
Mouse_ING1a	-----	-----	-----	-----	-----	-----	-----
Mouse_ING1b	MLSPANG EQ I	HLVNY VE DYL	DSIESL P FDL	QRNVSL M REI	DAKY Q EILKE	LDDY Y EKFKR	60
Mouse_ING1c	-----	-----	-----	-----	-----	-----	-----

NCR

Human_ING1b	ETDGAQKRRM	LHC V Q R ALIR	S Q ELG D E K IQ	IVS Q M V ELVE	NR T R Q VD S HV	EL F E A Q Q ELG	120
Mouse_ING1a	-----	-----	-----	---- M VELVE	N R S R Q V D S HV	EL F E A H Q DIS	26
Mouse_ING1b	ETDGTQKRRV	LHC I Q R ALIR	S Q ELG D E K IQ	IVS Q M V ELVE	N R S R Q V D S HV	EL F E A H Q DIS	120
Mouse_ING1c	-----	-----	-----	---- M VELVE	N R S R Q V D S HV	EL F E A H Q DIS	26

NTS

NLS

NTS

Human_ING1b	D TAGNSGKAG	AD R PK G EAAA	Q A D K P N SKRS	RR Q R N N E NR	N A SS N H D H D	G A S G T P KEKK	180
Mouse_ING1a	D GTGGSGKAG	Q D K S K S EAIT	Q A D K P N SKRS	RR Q R N N E NR	N A SS N H D H D	I T S G T P KEKK	86
Mouse_ING1b	D GTGGSGKAG	Q D K S K S EAIT	Q A D K P N SKRS	RR Q R N N E NR	N A SS N H D H D	I T S G T P KEKK	180
Mouse_ING1c	D GTGGSGKAG	Q D K S K S EAIT	Q A D K P N SKRS	RR Q R N N E NR	N A SS N H D H D	I T S G T P KEKK	86

NTS

REASP

PHD

Human_ING1b	A K T S K K K KRS	K A K A E R E A SP	AD L P I D P NEP	TY C L C N Q V S Y	G E M I G C D N D E	C P I E W F H F S C	240
Mouse_ING1a	A K T S K K K KRS	K A K A E R E A SP	AD L P I D P NEP	TY C L C N Q V S Y	G E M I G C D N D E	C P I E W F H F S C	146
Mouse_ING1b	A K T S K K K KRS	K A K A E R E A SP	AD L P I D P NEP	TY C L C N Q V S Y	G E M I G C D N D E	C P I E W F H F S C	240
Mouse_ING1c	A K T S K K K KRS	K A K A E R E A SP	AD L P I D P NEP	TY C L C N Q V S Y	G E M I G C D N D E	C P I E W F H F S C	146

PBR

Human_ING1b	V GL N H K P	KGK	W Y CP K CRGEN	E K T M D K A L E K	S K K E R A Y N R	279
Mouse_ING1a	V GL N H K P	KGK	W Y CP K CRGES	E K T M D K A L E K	S K K E R A Y N R	185
Mouse_ING1b	V GL N H K P	KGK	W Y CP K CRGES	E K T M D K A L E K	S K K E R A Y N R	279
Mouse_ING1c	V GL N H K P	KGK	W Y CP K CRGES	E K T M D K A L E K	S K K E R A Y N R	185

D.

LZI

Human_ING2a	MLGQQQQQL-	YSSAALLTGE	RSRLLTTCYVQ	DYLECVESLP	HDMQRNVSVL	RELDNKYQET	59
Human_ING2b	-----	-----	-----	-----	-MDQDGDQQL	GPSRILAPQT	19
Mouse_ING2a	MLGQQQQQQL	YSSAALLTGE	RSRLLSYVQ	DYLECVESLP	HDMQRNVSVL	RELDNKYQET	60
Mouse_ING2b	-----	-----	-----	-----	-----	-----	---

NCR

Human_ING2a	LKEIDDVYEK	YKEDDLNQK	KRLQQLQRA	LINSQELGDE	KIQIVTQMLE	LVENRARQME	119
Human_ING2b	LKEIDDVYEK	YKEDDLNQK	KRLQQLQRA	LINSQELGDE	KIQIVTQMLE	LVENRARQME	79
Mouse_ING2a	LKEIDDVYEK	YKEDDSNQK	KRLQQLQRA	LINSQELGDE	KIQIVTQMLE	LVENRARQME	120
Mouse_ING2b	-----	-----	-----	-----	-----MLE	LVENRARQME	13
	*****	*****	*****	*****	***	*****	***

NTS

NLS

Human_ING2a	LHSQCFQDPA	ESERASDKAK	MDSSQPERSS	RRRRRQRTSE	SRDLCHMANG	IEDCDDQPPK	179
Human_ING2b	LHSQCFQDPA	ESERASDKAK	MDSSQPERSS	RRRRRQRTSE	SRDLCHMANG	IEDCDDQPPK	139
Mouse_ING2a	LHSQCFQDPA	ESERASDKSK	MDSSQPERSS	RRRRRQRTSE	SRDLCHMTNG	IDDCDDQPPK	180
Mouse_ING2b	LHSQCFQDPA	ESERASDKSK	MDSSQPERSS	RRRRRQRTSE	SRDLCHMTNG	IDDCDDQPPK	73
	*****	*****	*****	*****	*****	*****	*****

NTS

REASP

Human_ING2a	EKKKSAKKK	KRSKAKQERE	ASPVFAIDP	NEPTYCLCNQ	VSYGEMIGCD	NEQCPIEFWFH	239
Human_ING2b	EKKKSAKKK	KRSKAKQERE	ASPVFAIDP	NEPTYCLCNQ	VSYGEMIGCD	NEQCPIEFWFH	199
Mouse_ING2a	EKRKSAKKK	KRSKAKQERE	ASPVFAIDP	NEPTYCLCNQ	VSYGEMIGCD	NEQCPIEFWFH	240
Mouse_ING2b	EKRKSAKKK	KRSKAKQERE	ASPVFAIDP	NEPTYCLCNQ	VSYGEMIGCD	NEQCPIEFWFH	133
	*****	*****	*****	*****	*****	*****	*****

PHD

PBR

Human_ING2a	FSCVSLTYKP	KGKWCYCPKCR	GDNEKTMDKS	TEKTKKDRRS	R	280
Human_ING2b	FSCVSLTYKP	KGKWCYCPKCR	GDNEKTMDKS	TEKTKKDRRS	R	240
Mouse_ING2a	FSCVSLTYKP	KGKWCYCPKCR	GDNEKTMDKS	TEKTKKERRA	R	281
Mouse_ING2b	FSCVSLTYKP	KGKWCYCPKCR	GDNEKTMDKS	TEKTKKERRA	R	174
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