

Supplemental Figure S4. Position and pattern of introns within the basic and hinge regions of bZIP domains of the ZmbZIP transcription factors.

Group	bZIP No.	PUBLISHED	BASIC REGION		HINGE	Pattern of introns					
			-30	-25	-20		-15	-10	-5	0	
A	Os bZIP66	TRAB1	KV	VERR	QRRMIK	NRESAARS	SRARKQ	AY	TM	EL	a
	Os bZIP5	OSBZ8	DK	ESKRE	RRKQ	SNRESA	RRSRLR	KQ	AE	TEEL	
	Os bZIP80	OsZIP-2a	EK	EAKRL	RRVLAN	RESARQ	TILRRQ	AI	R	DEL	
	ZmbZIP14		KV	VERR	QRRMIK	NRESAARS	SRARKQ	AY	TM	EL	
	ZmbZIP23	ZmbZIP72	KV	VERR	RRRMIK	NRESAARS	SRARKQ	AY	TM	EL	
	ZmbZIP37.1		RA	AMQR	QKRMIK	NRESAARS	SRERKQ	AY	IA	E	
	ZmbZIP37.2		RA	AMQR	QKRMIK	NRESAARS	SRERKQ	AY	IA	E	
	ZmbZIP39		KL	VERR	QKRMIK	NRESAARS	SRARKQ	AY	TN	EL	
	ZmbZIP46.1		KV	VERR	QRRMIK	NRESAARS	SRARKQ	AY	TM	EL	
	ZmbZIP46.2		KV	VERR	QRRMIK	NRESAARS	SRARKQ	AY	TM	EL	
	ZmbZIP71		RA	VMQR	QKRMIK	NRESAASS	SRDRKQ	AA	LE	E	
	ZmbZIP73		YD	DERKN	IRMMRN	NRESALRS	SRARKQ	AY	VQ	EL	
	ZmbZIP75		SG	DDRRS	IRMMRN	NRESALRS	SRARKQ	AY	VEN	L	
	ZmbZIP81.1		RA	VMQR	QKRMIK	NRESAARS	SRDRKQ	AY	IA	E	
	ZmbZIP81.2		RA	VMQR	QKRMIK	NRESAARS	SRDRKQ	AY	IA	E	
	ZmbZIP94		RT	VERR	QKRMIK	NRESAARS	SRARKQ	AY	TN	EL	
	ZmbZIP98		RA	VMQR	QKRMIK	NRESAARS	SRDRKQ	AY	VA	E	
	ZmbZIP99		KV	VERR	QKRMIK	NRESAARS	SRARKQ	AY	TN	EL	
	ZmbZIP102		RS	AIQRE	KRMIKN	NRESAARS	SRERKQ	AY	IA	E	
	ZmbZIP104		KT	VERR	QRRMIK	NRESAARS	SRARKQ	AY	TV	EL	
	ZmbZIP107		KV	VERR	QRRMIK	NRESAARS	SRARKQ	AY	TM	EL	
	ZmbZIP48		TV	IHS	GHAAAY	NREAAK	SLLRKQ	AY	IQ	QL	
	ZmbZIP18.2		---	---	---	---	---	---	---	---	
	ZmbZIP68		TS	DAKT	LRRLAQ	NREAAK	SLLRKQ	AY	IQ	QL	
	ZmbZIP2		GR	E	LKRQ	KRKQ	SNRESA	RRSRLR	KQ	AE	
ZmbZIP21.1		ER	E	LKRERR	KQSNRESA	RRSRLR	KQ	QE	CEEL		
ZmbZIP21.2		ER	E	LKRERR	KQSNRESA	RRSRLR	KQ	QE	CEEL		
ZmbZIP32		ER	E	LKREKR	KQSNRESA	RRSRLR	KQ	AE	TEEL		
ZmbZIP33		ER	E	LKRQ	KRKQ	SNRESA	RRSRLR	KQ	AE		
ZmbZIP42		ER	E	LKREKR	KQSNRESA	RRSRLR	KQ	AE	TEEL		
ZmbZIP43		DK	ESKRE	RRKQ	SNRESA	RRSRLR	KQ	AE	TEEL		
ZmbZIP58		ER	E	LKQ	KRKQ	SNRESA	RRSRLR	KQ	AE		
ZmbZIP63		ER	E	LKQ	KRKQ	SNRESA	RRSRLR	KQ	AE		
ZmbZIP83.1	ZmGBF1	ER	E	LKREKR	KQSNRESA	RRSRLR	KQ	AE	TEEL		
ZmbZIP83.2		ER	E	LKREKR	KQSNRESA	RRSRLR	KQ	AE	TEEL		
ZmbZIP86.1	mEmBP-1a	ER	E	IKRE	RRKQ	SNRESA	RRSRLR	KQ	QE		
ZmbZIP86.2		ER	E	IKRE	RRKQ	SNRESA	RRSRLR	KQ	QE		
ZmbZIP120		E	H	LKQ	RRKQ	SNRESA	RRSRLR	KQ	AE		
ZmbZIP122		ER	E	LKRE	RRKQ	SNRESA	RRSRLR	KQ	QE		
ZmbZIP124		ER	E	LKRE	RRKQ	SNRESA	RRSRLR	KQ	AE		
ZmbZIP118		E	K	EAKRL	RRVLAN	RESARQ	TILRRQ	AI	R		
D	Os bZIP11		SV	DAK	TERR	LAQNRE	AARKSRLR	KQ	AY	VQ	b
	ZmbZIP4		PM	DQK	VLRR	LAQNRE	AARKSRLR	KQ	AY	VQ	
	ZmbZIP18.1		ER	VRT	VMRR	LAQNRE	AARKSRLR	KQ	AY	IQ	
	ZmbZIP18.3		R	PPER	VMRR	LAQNRE	AARKSRLR	KQ	AY	IQ	
	ZmbZIP25		ER	DPK	T	LRRLAQ	NREAAK	SRLR	KQ	AY	
	ZmbZIP38.1	LG2	L	VDAK	TERR	LAQNRE	AARKSRLR	KQ	AY	VQ	
	ZmbZIP38.2		L	VDAK	TERR	LAQNRE	AARKSRLR	KQ	AY	VQ	
	ZmbZIP40.1	OB	K	L	DQK	T	LRRLAQ	NREAAK	SRLR	KQ	
	ZmbZIP40.2	F3.1	K	L	DQK	T	LRRLAQ	NREAAK	SRLR	KQ	
	ZmbZIP50		A	L	DPK	V	IRRLAQ	NREAAK	SRLR	KQ	
	ZmbZIP77.1		P	R	DHK	A	QRR	LAQNRE	AARKSR	MRKQ	
	ZmbZIP77.2		P	R	DHK	A	QRR	LAQNRE	AARKSR	MRKQ	
	ZmbZIP77.3		P	R	DHK	A	QRR	LAQNRE	AARKSR	MRKQ	
	ZmbZIP80.1		L	L	DAK	TERR	LAQNRE	AARKSRLR	KQ	AY	
	ZmbZIP80.2		L	L	DAK	TERR	LAQNRE	AARKSRLR	KQ	AY	
	ZmbZIP80.3		L	L	DAK	TERR	LAQNRE	AARKSRLR	KQ	AY	
	ZmbZIP89.1		ER	DPK	T	LRRLAQ	NREAAK	SRLR	KQ	AY	
	ZmbZIP89.2		ER	DPK	T	LRRLAQ	NREAAK	SRLR	KQ	AY	
	ZmbZIP89.3		ER	DPK	T	LRRLAQ	NREAAK	SRLR	KQ	AY	
	ZmbZIP93.1		P	L	DQK	T	MRRLAQ	NREAAK	SRLR	KQ	
	ZmbZIP93.2		P	L	DQK	T	MRRLAQ	NREAAK	SRLR	KQ	
	ZmbZIP93.3		P	L	DQK	T	MRRLAQ	NREAAK	SRLR	KQ	
	ZmbZIP93.4		P	L	DQK	T	MRRLAQ	NREAAK	SRLR	KQ	
	ZmbZIP96.1		H	G	DQK	T	LRRLAQ	NREAAK	SRLR	KQ	
	ZmbZIP96.2		H	G	DQK	T	LRRLAQ	NREAAK	SRLR	KQ	
ZmbZIP100.1		L	L	GQK	A	LRRLAQ	NREAAK	SRLR	KQ		
ZmbZIP100.2		L	L	GQK	A	LRRLAQ	NREAAK	SRLR	KQ		
ZmbZIP100.3		L	L	GQK	A	LRRLAQ	NREAAK	SRLR	KQ		
ZmbZIP103		L	V	DAK	TERR	LAQNRE	AARKSRLR	KQ	AY		
ZmbZIP105	OB	K	L	DQK	T	LRRLAQ	NREAAK	SRLR	KQ		
ZmbZIP111	F3.2	T	P	DPK	T	LRRLAQ	NREAAK	SRLR	KQ		
ZmbZIP114.1		P	M	DQK	V	LRRLAQ	NREAAK	SRLR	KQ		
ZmbZIP114.2		P	M	DQK	V	LRRLAQ	NREAAK	SRLR	KQ		
ZmbZIP117		L	K	H	F	L	T	IRRLAQ	NREAAK		
ZmbZIP121		R	P	R	DK	V	QRR	LAQNRE	AARKSRLR		
ZmbZIP125.1		R	P	P	E	A	QRR	LAQNRE	AARKSRLR		
ZmbZIP125.2		R	P	P	E	A	QRR	LAQNRE	AARKSRLR		
ZmbZIP125.3		R	P	P	E	A	QRR	LAQNRE	AARKSRLR		
B	Os bZIP30	RF2b	A	I	D	P	K	R	A	K	c
	Os bZIP33	REB	P	A	D	Q	R	L	Q	R	
	Os bZIP50		D	P	M	S	K	K	R	R	
	ZmbZIP110.1		D	P	I	S	K	K	M	R	
	ZmbZIP110.2		D	P	I	S	K	K	M	R	
	ZmbZIP9.1		P	A	N	A	K	M	R	R	
	ZmbZIP9.2		P	A	N	A	K	M	R	R	
	ZmbZIP9.4		P	A	N	A	K	M	R	R	
	ZmbZIP16.1		P	V	Q	H	R	L	Q	R	
	ZmbZIP16.2		P	V	Q	H	R	L	Q	R	
	ZmbZIP17	OHP1	P	V	Q	H	R	L	Q	R	
	ZmbZIP60.1	OHP2	P	V	Q	H	R	L	Q	R	
	ZmbZIP60.2		P	V	Q	H	R	L	Q	R	
	ZmbZIP65.1		P	Q	D	V	K	M	R	R	
	ZmbZIP85.1	Opaque2	P	T	E	R	V	R	K	R	
	ZmbZIP85.2		P	T	E	R	V	R	K	R	
	ZmbZIP85.3		P	T	E	R	V	R	K	R	
	ZmbZIP112.1		S	I	E	T	K	I	R	R	
	ZmbZIP112.2		S	I	E	T	K	I	R	R	
	ZmbZIP30		A	V	D	P	K	R	V	K	
	ZmbZIP41		I	R	D	P	K	R	V	K	
	ZmbZIP56		V	A	E	P	K	R	V	K	
	ZmbZIP69		A	A	D	P	K	R	V	K	
	ZmbZIP106.1		I	R	D	P	K	R	V	K	
	ZmbZIP106.2		I	R	D	P	K	R	V	K	
ZmbZIP67		D	K	E	H	R	L	K	R		
ZmbZIP108		D	K	E	H	R	L	K	R		
ZmbZIP1		L	A	D	P	K	R	V	K		
ZmbZIP5		A	I	D	P	K	R	A	K		
ZmbZIP6		L	A	D	P	K	R	V	K		
ZmbZIP12		L	I	D	P	K	A	K	R		
ZmbZIP13		L	T	D	P	K	R	V	K		
ZmbZIP19.1		L	V	D	P	K	R	A	K		
ZmbZIP19.2		L	V	D	P	K	R				