

Additional file 5. Alignment of basic and hinge regions of 95 peanut bZIP proteins. Conserved amino acids are boxed in red. The different amino acid residues at -10 and -18 positions like K and I are colored in blue.

GROUP	bZIP No.	← BASIC REGION →	← HINGE →
		-40 -25 -20 -15 -10 -5 -1	
		* * * * * * *	
A	AdbZIP13	QGIDRKQKRM	AKNRESAAKSR
	AdbZIP29	KTVERRQKRM	IKNRESAAARS
	AdbZIP33	VVVERRQRRM	LKNRESAAARS
	AdbZIP39	KAAQQRQRRM	LKNRESAAARS
	AdbZIP42	KVVERRQRRM	LKNRESAAARS
	AdbZIP48	KTVERRQKRM	IKNRESAAARS
	AibZIP12	KATLQKQRRM	LKNRESAAARS
	AibZIP2	RICENISKRM	MKNRESAAARS
	AibZIP23	KTVERRQKRM	IKNRESAAARS
	AibZIP28	VVVERRQRRM	LKNRESAAARS
	AibZIP31	KAAQQRQRRM	LKNRESAAARS
	AibZIP35	KVVERRQRRM	LKNRESAAARS
	AibZIP43	KTVERRQKRM	IKNRESAAARS
	AibZIP33	KASLQKQRRM	LKNRESAAARS
AdbZIP2	RICENISKRM	MKNRESAAARS	
B	AdbZIP45	DDDEK	RKARLMRNRESAQLSRQRK
	AibZIP40	DDDEK	RKARLMRNRESAQLSRQRK
C	AdbZIP23	PTDAKRVRRM	LSNRESARRSR
	AdbZIP30	PIDMKRLRRK	VSNRESARRSR
	AdbZIP37	PADVKKVRRM	LSNRESARRSR
	AdbZIP44	PVDVKRLRRK	ESNRESARRSR
	AibZIP24	---MKRLRRK	VSNRESARRSR
	AibZIP30	PADVKKVRRM	LSNRESARRSR
D	AdbZIP20	AVDQKTMRR	LAQNREAAARKS
	AdbZIP25	KADQKTLRR	LAQNREAAARKS
	AdbZIP34	PLDAKTLRR	LAQNREAAARKS
	AdbZIP35	KTDQKSLRR	LAQNREAAARKS
	AdbZIP38	HEDQKTLRR	LAQNREAAARKS
	AdbZIP40	KPIDKIQR	LAQNREAAARKS
	AdbZIP8	TPDPKTLRR	LAQNREAAARKS
	AdbZIP9	AVDAKTLRR	LAQNREAAARKS
	AibZIP18	AVDQKTMRR	LAQNREAAARKS
	AibZIP20	KADQKTLRR	LAQNREAAARKS
	AibZIP29	PLDAKTLRR	LAQNREAAARKS
G	AdbZIP15	NVTRDRKENS	LNRELARRSRLR
	AdbZIP17	ERELKRQRK	QSNRESARRSRLR
	AdbZIP19	ERELKRQRK	QSNRESARRSRLR
	AdbZIP4	ERELKRERRK	QSNRDSARRSRLR
	AdbZIP49	NDEIRKERK	RKLSNRESAKRSRLR
	AdbZIP50	ERDLKRQRK	QSNRESARKSRLR
	AdbZIP6	ERELKRERRK	QSNRESARRSRLR
	AdbZIP7	ERDLKRQRK	QSNRESARKSRLR
	AibZIP15	ERELKRQRK	QSNRESARRSRLR
	AibZIP17	ERELKRQRK	QSNRESARRSRLR
H	AdbZIP14	DKEYRRLK	RLLRNRVSAQQARERK
	AdbZIP41	DKENKRLK	RLLRNRVSAQQARERK
	AdbZIP47	DKENKRLK	RLLRNRVSAQQARERK
	AibZIP36	DKENKRLK	RLLRNRVSAQQARERK
	AibZIP42	DKENKRLK	RLLRNRVSAQQARERK
I	AdbZIP1	TIDPKRAKR	ILANRQSAARS
	AdbZIP11	MMDPKRAKR	ILANRQSAARS
	AdbZIP22	TIDPKRAKR	ILANRQSDTRS
	AdbZIP27	MADPKRAKR	ILANRVSAARS
	AdbZIP32	TIDPKRAKR	ILANRQSAARS
	AdbZIP43	TVDPKRAKR	ILANRKSAAARS
	AibZIP11	MMDPKRAKR	ILANRQSAARS
	AibZIP19	MADPKRAKR	ILANRVSAARS
	AibZIP26	TIDLKRAKR	ILANRQSAARS
	AibZIP3	TIDPKRAKR	ILANRQSAARS
S	AdbZIP10	LMDQKRKR	KRMISNRESARRSR
	AdbZIP12	IMDQKRKR	KRMQSNRESARRSR
	AdbZIP16	ILNERKHRR	MISNRESARRSR
	AdbZIP18	VMNERKRRR	KISNRESARRSR
	AdbZIP21	VIDERKQRR	MISNRESARRSR
	AdbZIP24	VLDERKRRK	MLSNRESARRSR
	AdbZIP26	LMDQKKRKR	KQSNRESARRSR
	AdbZIP3	-----MI	SNRESARRSR
	AdbZIP31	SSHERKIRR	KQSNRESARRSR
	AdbZIP36	VMDERKRRK	MLSNRESARRSR
	AdbZIP46	LINERKHRR	MISNRESARRSR
	AdbZIP5	VIDERKRRR	MLSNRESARRSR
	AibZIP1	IDERRQRR	MISNRESARRSR
	AibZIP10	LMDQKRKR	KRMISNRESARRSR
	AibZIP13	TMDQKRKR	KRMQSNRESARRSR
	AibZIP14	ILNERKHRR	MISNRESARRSR
	AibZIP16	VMDERKRRR	KISNRESARRSR
AibZIP25	STHERKIRR	KQSNRESARRSR	
AibZIP27	SSEERKLRR	MQSNRESARRSR	
AibZIP41	LINERKHRR	MISNRESARRSR	
AibZIP5	VIDERKRRR	MLSNRESARRSR	
U	AdbZIP28	EKEARRIR	RRILANRESARQT
	AibZIP22	EKEARRIR	RRILANRESARQT
	AibZIP7	EPVSKLLR	KMRNRDAARSRERK