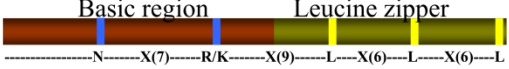


Additional file 2. The position and pattern of introns within bZIP domain

VvbZIP NO.	Basic region	Leucine zipper	Patterns of intron
			
VvbZIP08	RRQRRMIKNRESAARSRARKQ	AYTLELEMEVAKLKEANEEL	<i>a</i>
VvbZIP45	RRQRRMIKNRESAARSRARKQ	AYTMELEAEVAKLKEKNEEL	
VvbZIP25	RRQRRMIKNRESAARSRARKQ	AYTVELEAELNQLKEENTLL	
VvbZIP43	RRQKRMIKNRESAARSRARKQ	AYTNHLEHEVHQLKENDLL	
VvbZIP49	RRHKRLIKNRESAARSRARKQ	AYTNELELEVAHLIEENARL	
VvbZIP30	QRQRRMIKNRESAARSRERKQ	AYTVELESVTHLEEEENARL	
VvbZIP51	QKQRRMIKNRESAARSRERKQ	AYQVELESSAVRLEEENEQL	
VvbZIP18	RRLKRKIKNRESAARSRARKQ	AYHNELVSKVSRLEEENVRL	
VvbZIP34	RRQKRMIKNRESAARSRARKQ	AYTNELENKVSRLLEEENERL	
VvbZIP11	RRQKRMIKNRESAATRSRARKQ	AYTNELENKVSRLLEEENERL	
VvbZIP31	RRQKRMIKNRESATHSRARKQ	AYTNELENKVSRLLEEENERL	
VvbZIP19	RRQRRMIKNRESAARSRARKQ	AYTVELELELNQLKEENTKL	
VvbZIP46	KRQRRKQSNRESARRSRLRKQ	AECEELQSKVEILSNENHVL	
VvbZIP40	KRERRKQSNRESARRSRLRKQ	AETEELALKVESLNTENSVL	
VvbZIP03	KRERRKANRESAKKSRLRKQ	AENEELMRRYETLNEENKAL	
VvbZIP04	KRQRRKQSNRESARRSRLRKQ	AECEDELAQRADALKEENASL	
VvbZIP26	RRLRRVLANRESARQTIRRRQ	ALCGELSRKAADLSLENETL	
VvbZIP12	KRQKRRKQSNRESARRSRLRKQ	AECEELQAKVETLSTENTAL	
VvbZIP28	KTLRRLAQNREAAKRSRLRKK	AYVQQLLESSRIKLTQLEQE-	
VvbZIP35	KTLRRLAQNREAAKRSRLRKK	AYVQQLLESSRMKLTQLEQEL	
VvbZIP01	KTLRRLAQNREAAKRSRLRKK	AYVQQLLECSQLKLTQLEQ--	
VvbZIP27	KTLRRLAQNREAAKRSRLRKK	AYVQQLENSRLKLTQLEQEL	
VvbZIP42	KTLRRLAQNREAAKRSRLRKK	AYVQQLLETSRLKLTQLEQEL	
VvbZIP23	KVQRRLAQNREAAKRSRLRKK	AYVQQLLESSRVKLM-----	
VvbZIP17	KRAKRIILANRQSAARSKERKARYI	LELERKVQTLQTEATTLQAQLTLYQRD	<i>c</i>
VvbZIP33	KRAKRIILANRQSAARSKERKARYI	LELERKVQTLQTEATTLQAQLTLFQRD	
VvbZIP16	KRAKRIILANRQSAARSKERKMRYIAE	LELERKVQTLQTEATTLQAQLTLQQRD	
VvbZIP05	KRAKRIILANRQSAARSKERKMRYI	SELEHKVQTLQTEATTLQAQLTLQQRD	
VvbZIP50	KRAKRIILANRQSAARSKERKIRYTN	LELERKVQTLQTEATTLQAQVMTLQQRD	
VvbZIP48	KRAKRIILANRQSAARSKERKVRMAE	LEHKVHTLQTEATTLQSHLLTLQQRD	
VvbZIP21	KRARFIMLSNRESARRSRRRQ	QEHLESELTQIVSGLGVENSLLKRL	<i>d</i>
VvbZIP38	KRVRFIMLSNRESARRSRRRQ	QAHLTELETQIVAQLRLENSLLKRL	
VvbZIP09	KMRRFIMVSNRESARRSRRRQ	QAHLDLELQIVVEQLRGENASLYKQL	
VvbZIP29	KRVKRIILANRQSAQRSRVRKLYI	SELEERSVTSLQITEVSVLSPR-	<i>e</i>
VvbZIP52	KRVKRIILANRQSAQRSRVRKLYI	SELEERSVTSLQITEVSALSFRV	
VvbZIP32	-----AQRSRVRKLYIAE	LELRNVQALKIAEGSEVSAL	
VvbZIP54	-----AQRSLRKLQYIAE	LEMSVQLQIAEGCEISAAV	
VvbZIP10	KRLKRIILRNRVSAQQARERKKAYL	NELEVRVKDLERKNSELEERL	<i>f</i>
VvbZIP41	KKRRRIILRNDAAVRSRERKKT	YVRDLELKSRYLESECRRLG---	
VvbZIP20	KTLRRLAQNREAAKRSRLRKK	KAYVQQLLESSRIKLTQLEQDL	<i>g</i>
VvbZIP53	KIRRRMIKNRESAARSRARKLA	YDAQQIEIAKPKKENEFL	
VvbZIP02	RRQRRMISNRESARRSRRRQ	KHLDLWSQVVRNRNENHSLIDKL	<i>i</i>
VvbZIP39	RRQRRMISNRESARRSRRRQ	KHLDLWSQVWVRNRNENHQLIDKL	
VvbZIP44	-----MISNRESARRSRRRQ	KHLENLSNEVNRLLVQNRREYKHRL	
VvbZIP55	RRRRRMI SNRESARRSRRRQ	KHLENLRNQLNQLRIQNRRELTNRL	
VvbZIP14	KKRKRMI SNRESARRSRRRQ	KHLDLILKRSLELENQRLEIKRRI	
VvbZIP37	KKRRRMLSNRESARRSRRRQ	KLSEDLISEVSRQLNLNKEIKQTI	
VvbZIP22	RKRKRMI SNRESARRSRRRQ	KHLDLWSKAAQLQKENGQIAERI	
VvbZIP07	RKRKRMI SNRESARRSRRRQ	KHLDLMAQAQLRKENSQIITSM	
VvbZIP13	RKRKRMLSNRESARRSRRRQ	KHLDLMMQMVHLRKENNRIL---	
VvbZIP47	RKRKRMLSNRESARRSRRRQ	KHLDLMAQVAQLRKENNEILSSI	
VvbZIP06	KSKKRPLGNREAVRKYREKKA	ASLEDEVVRLRSLNQLLKRRL	
VvbZIP36	-KVRPSPGNREAVRKYREKKA	HTAYLEEEVKKLRLNQLLVKKL	
VvbZIP15	VLESRLRNRVSAQQARERKK	VYVNDLESRAQELQDRNSKLEEKI	
VvbZIP24	KKKARLMRNRESAQLSRQ	KKHYVEELEEKIRSMHSTIQDLTGKI	