

Genetic analysis of the grapevine (*Vitis vinifera* L.) GATA gene family reveals a putative resistance-related member important for innate immunity

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Date

VvGATA27	MGKHGPCYHCGVTNTPLVRNGPPEKPVLCNACGSRWRTKGTLENYTPLHARVDGDDAEDYRVS	69
AT4G17570	MGKHGPCYHCGVTNTPLVRNGPPEKPVLCNACGSRWRTKGTLVNYTPLHARADGDENDDHRFQRMKSI	70
VvGATA27	I..NKNKEVKLLKRKQNDNVVNGVASDYSQGSRK.AIDEDITSNRSSSGSAISNSESQAQFGSADASDLT	137
AT4G17570	LGKNKNEIKMLKRKAIQENIIIKRPVFEFSYGLKAAVLEEDASNRSSSGSAVSNSESQAQFSSADGS...	137
VvGATA27	GPSQSI.VMDTMVPSRKRTCVRPKPSSVEKLTKDLCTLIHEQQSSYFSGSSEEDLLFESETPMWSVEIGH	207
AT4G17570	.PSQSNAMDITTPCKRRTCVRPKPSSVEKLTKDLYNLHQEQSSCLSVSSEEDLLFENEMSWWSVEIGH	206
VvGATA27	GSVLI.RHPSAIGREEESEASSLSVDNKSYLVNEVYSRIGALPVNTNNKGINFPSPGLEKMKKPAGLGMQC	277
AT4G17570	GSVLMKNPHSFAREEESEASSLSSENKSSISDAYSD.....HSVKRVEIGAVRGSYYGGQTIKQ	265
VvGATA27	EQTQRDKSCHEKLQILANFINSPLRSIDLKDVNFEEFVGHILTNEEQQLQLKYLPSEDTAKLPDSLKSMFD	347
AT4G17570	EQFKRTKSQTERVHVLGSHGSPLCISIDLKDVNFDEFIEQFTFEEQKKLMNLLPQIDSDDLPHSLRMVFE	335
VvGATA27	SPQFKESLSFFQQLLGEGVFDISFP.GVKAEDCKTLQRLALLNSEKSKWVEHYNLLKKCKNSTGVSVVAG	416
AT4G17570	SAQFKDNFSLFQQLIADGVFDVSSSSGAKLEEIRTFKKLALTDFNKSRLVESYNLLKEREKGTGDSVTTT	405
VvGATA27	EPKAI.AAS..NFANAKRSRDAQNFSEARTTMKSPRVI.MKAVEKEHIDNEGSSFSRPSLFALPPDGCS	484
AT4G17570	SKSSI.PNVPKNI.VTIKRRYENQICVKSESRLMRSPKRVMMKASHETENNIVSCFRPRSLASVFAQECG	474
VvGATA27	LELDSFTFGDEISDHL.LLDVPSNNSFPQAEELLHPGSGFGTQLQSTSSSSAYPHLLRP	542
AT4G17570	SAVFSYEGNCSSDQDL.LLLDLPSNGSFQAEELLH.....QL	510

Figure S1. Sequence analysis of the VvGATA27 and AT4G17570

the sequence alignment of the VvGATA27 and AT4G17570, and indicated that the

VvGATA27 showed sequence identity (up to 52.01%) to AT4G17570.



Figure S2. Identification of conserved structural domains within VvGATA proteins.

Conserved regions and domain identities were determined by MEME

(<https://meme-suite.org/meme/tools/meme>).

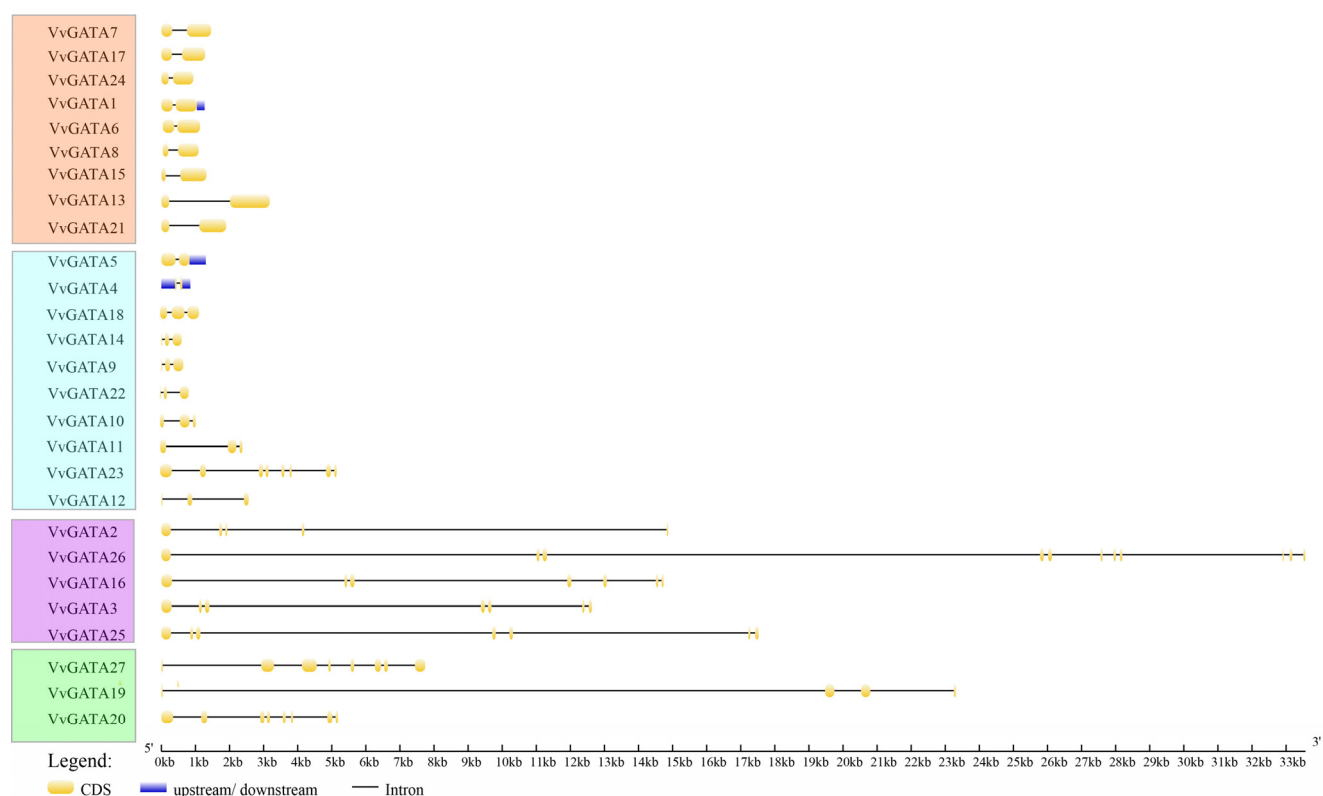


Figure S3. Exon/intron organization of VvGATA family genes were illustrated using the Gene Structure Display Server