

# 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  | MGKHGPCYHCGVTNTPLWRNGPPEKPVLCNACGSRWRKGTLENYTPLHARVDGDDAEDYRVSrvKSI S      | 69  |
| AT4G17570 | MGKCGPCYHCGVTNTPLWRNGPPEKPVLCNACGSRWRKGTLVNYTPLHARADGDENDDHRFQRMKSI S      | 70  |
| VvGATA27  | I..NKNKEVKLLKRKQNCNMMVNVGASDYSQCSRK.AIIDEDTINRSSSGSAISNSESCAQFGSADASDLT    | 137 |
| AT4G17570 | LGKNKKEIKMLKRKAIQENIIIKRPVFEFSYGLKAAVLEEDASNRSSSGSAVSNSESCAQFGSADGS...     | 137 |
| VvGATA27  | GPSQSI VMDTIVPSRKRTCVRNRPKPSVVEKLTkdLCTLLEHQSSYFSGSSEEDLLFESETPMSVVEIGH    | 207 |
| AT4G17570 | .PSQSNAMDTITVPCKRRTCVRPKSSVVEKLTkdLYNLLEEQSSCLSVSSEEDLLFENEMSVVSVVEIGH     | 206 |
| VvGATA27  | GSVLI RHPSAI GREEESEASSL SVDNKSYLVNEVYSRI GALPVNTNNGI NFPSPLGKMKKPAAGLGMQC | 277 |
| AT4G17570 | GSVLMKNPHSFARREEESEASSLSI ENKSSI SDAYS..... HSVKRVEI GAVRGSYYGQTI KQ       | 265 |
| VvGATA27  | EQTKRDKSCHEKLQI LANINSPLRSDLDKDVNFEEFVGHILTNEEQQLLKYLPSEDTAKLPDLSKSMFD     | 347 |
| AT4G17570 | EQFKRTKSQTERVHVLGSLGSPLCSDLDKDVNFDEFIEQFTEEQKLMNLLPQIDSDDLPHSLRMVFE        | 335 |
| VvGATA27  | SPOFKESLSFFQQLL GEGVFDI SFP.GVKAEDCKTLQRLALLNSEKSKWVEHYNLLKCKKNSTGVSVVAG   | 416 |
| AT4G17570 | SAQFKDNFSLFQQLI ADGVFDVSSSSCAKLEEI RTFKKLALTDFNKSRLVESYNLLKEREKGTGDSVITTT  | 405 |
| VvGATA27  | EPKAI AAS..NFANAKRSRDAQNQNFSEARTTMKSPRVI MKAVEKEHI DNEGSSFSPPRSLFALPPDGCS  | 484 |
| AT4G17570 | SKSSIPNVPKNI VTI KRRYENQICVKSESRGLMRSPKRVMKMKASHE TENN.VSCFRPRSLASVFAQECG  | 474 |
| VvGATA27  | LELDSFTFGDEI SDHDL LLDVPSNNSFPQAE LLHPGSGFGTQLQSTSSSSAYPHLLRP              | 542 |
| AT4G17570 | SAVFSYEGNCSSDQDL LLLDLPSNGSFPQAE LLH..... 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.

