

(A) Thioredoxin

CS|c41671_g1 NGNPLIFDGD MGNNGNVLGW
HV|c45692_g1 NGNPLIFDGD IVSGSSVYVW

Glutathione S-transferase

CS|c55349_g13 MKLTYNITLSQ PSRAVYIFLQ IYVTPFQSYS LNLLHGEHRT DEYTAINPFC
HV|c37968_g1 MKLTFDLTSQ PSRAVYIFLQ RYKTPETKA VALRKGEHRT DEYTAINPFC

Antimicrobial peptide

CS|c85585_g1 MAVAHQSGLL APASGTLVRQ ASARTTTSVA D
HV|c33176_g1 MAVAHQSGLL APAPETLVRQ ASARTTTSVA D

Rhodanese

CS|c54815_g3 MSDITYEELS GILDSHIMD VRNRDEVERL GQIFGSHCVB LGEIEDANAM DSSSECKRYG FAKPTINTLAL VTHCRTGVRA RRAGNHLTSQ GYQARVYVGS
HV|c37898_g1 MSDITYEELS SNLCSHILD VRNRDEVERN GQIFGSHCVB LGEIEDANAM DSSSECKRYG FAKPTGKGLI VTHCLKGERA RRAGDHLTSQ GYQARVYVGS

CS|c54815_g3 FTDWNERKCG IDLGKPFVFS S
HV|c37898_g1 FTDWSEKCK VDSGKPFVFS S

(B) DNA repair protein RAD4

CS|c53690_g1 QRFVAVFGCK KFDGIYFPNR FHSGWTHPVY DGYVVCEEFR GVLMDLWNQ
HV|c45151_g1 QRFVAVFGCK KFDGIYFPNR FHSGWTHPVY DGYVVCEEFR EVLMDLWNQ

p53 protein

CS|c56956_g1 LAVEXTFMTI QVSSYQPTIR
HV|c46996_g1 LAVEXTFMTI QVASYQPTIR

Serine/arginine-rich splicing factor

CS|c9486_g1 FKLTTEDWE
HV|c20005_g1 FKLTTEDWE

ATP-dependent DNA helicase 2

CS|c51201_g1 RWAGDQVLVV DYECIVWIAL PFQDVRMFES GASGARVMTK
HV|c41323_g1 RWAGDQVLVV DYECIVWIEL PFQDNVRMFES GASGARIMTK

Zinc finger protein 268

CS|c10683_g1 SAPDCKLVDR
HV|c22836_g1 SAPDCKLVDR

Additional file 7: Figure S4 Partial alignment of positively selected genes. (A) Positively selected genes related to stress response and immunity. (B) Positively selected genes related to genetic information progressing.