|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Gene annotation** |  **SNP name** | **Amino acid change** | **Allele frequencies**  | **Permutation (*p*-value)** |
| **ÅL** | **UP** | **ÖL/GO** | **SA** |
| *Glycolytic enzyme phosphoglucose isomerase* *(Pgi)* | *EU888473.1(Pgi):c.105A>T*  | Non-Synonymous | A:0.53**T:0.47** | **A:0.29**T:0.71 | A:0.74**T:0.26** | A:0.992**T:0.008** | < 10^-6  |
| *EU888473.1(Pgi):c.331A>C*  | Non-Synonymous | A:0.80**C:0.20** | A:0.75**C:0.25** | **A:0.33**C:0.67 | **A:0.44**C:0.56 | < 10^-6  |
| *EU888473.1(Pgi):c.331A>C\**  | Non-Synonymous\* | A:0.76**C:0.24** | A:0.73**C:0.27** | **A:0.23**C:0.77 | **A:0.45**C:0.55 | < 10^-6  |
| *EU888473.1(Pgi):c.1083G>A* | Synonymous  | G:0.58**A:0.42** | G:0.65**A:0.35**  | G:0.74**A:0.26** | G:0.84**A:0.16** | < 10^-6  |
| *Hemolymph proteinase-5* | *c50\_est:735A>G*  | Synonymous | A:0.51**G:0.49** | A:0.52**G:0.48** | **A:0.26**G:0.74 | **A:0.12**G:0.88 | < 10^-6  |
| *c50\_est:591C>T* | Synonymous | C:0.66**T:0.34** | C:0.71**T:0.29** | C:0.65**T:0.35** | **C:0.45**T:0.55 | < 10^-6  |
| *c50\_est:816C>A*  | Synonymous | C:0.51**A:0.49** | C:0.52**A:0.48** | **C:0.34**A:0.66 | **C:0.13**A:0.87 | < 10^-6  |
| *c50\_est:824A>G* | Non-Synonymous | A:0.51**G:0.49** | A:0.52**G:0.48** | **A:0.26**G:0.74 | **A:0.10**G:0.90 | < 10^-6  |
| *Cytochrome P450* | *cyp:188C>T* | Synonymous | C:0.57**T:0.43** | **C:0.3**T:0.7 | C:0.957**T:0.043** | C:0.77**T:0.23** | < 10^-6  |
| *cyp:263A>G* | Synonymous | A:0.57**G:0.43** | **A:0.29**G:0.71 | A:0.943**G:0.057** | A:0.76**G:0.24** | < 10^-6  |
| *Endocuticle structural glycoprotein (SgAbd-8)* | *c480\_est:926G>A* | Synonymous | G:0.53**A:0.47** | G:0.55**A:0.45** | **G:0.17**A:0.83 | **G:0.009**A:0.991 | < 10^-6  |
| *c480\_est:1051G>A* | Synonymous | G:0.53**A:0.47** | G:0.55**A:0.45** | **G:0.17**A:0.83 | **G:0.009**A:0.991 | < 10^-6  |
| *Heat shock 70kDa protein* | *hsp\_4:106G>A* | Synonymous | A:0.51**G:0.49** | A:0.74**G:0.26** | **A:0.44**G:0.56 | **A:0.4**G:0.6 | < 10^-6  |
| *Vitellin-degrading protease precursor* | *c177\_est:181A>G* | Synonymous | A:0.944**G:0.056** | A:0.988**G:0.012** | A:0.61**G:0.39** | A:0.76**G:0.24** | < 10^-6  |
| *Glucose-6-phosphate 1-dehydrogenase* | *g6p1d:239C>T* | Non-synonymous | **C:0.23**A:0.77 | **C:0.18**A:0.82 | C:0.57**A:0.43** | C:0.975**A:0.025** | < 10^-6  |
| *Serine proteinase-like protein* | *c3917\_est:386A>C* | Synonymous | A:0.76**C:0.24** | A:0.81**C:0.19** | A:0.86**C:0.14** | A:1**C:0** | < 10^-6 |

(\*) Data from the 2007 pilot study