**Table S2:** Predicted genes in the HF BAC Hf5p7 sequence.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Gene | Exons | AA | CDS | BLASTX\* | Reference† | Putative protein |
| 1 | 4 | 249 | (+) 5566-7937 | 2e-80 | Cq- XP\_001850654.1  | short-chain dehydrogenase |
| 2 | 2 | 177 | (+) 11456-12152 | 5e-28 |  Ag- XP\_309789.3 | short-chain dehydrogenase |
| 3 | 2 | 81 | (-) 13075-12632 | NSS |  |  |
| 4 | 2 | 331 | (-) 17494-15359 | 9e-11 | Aa- XP\_001651665.1 | cuticular protein |
| 5 | 2 | 250 | (+) 19144-20002 | 5e-17 | Ag- XP\_001230655.1 | cuticular protein |
| 6 | 4 | 309 | (+) 22151-24314 | 1e-73 | Ag- XP\_315532.3 | short-chain dehydrogenase |
| 7 | 3 | 155 | (-) 40769-32873 | 9e-21 | Dm- NP\_001097395.1 | Rgk3 |
| 8 | 1 | 811 | (+) 43588-46023 | 1e-95 | Ap- XP\_001942753.1| | non-LTR retrovirus reverse transcriptase |
| 9 | 2 | 78 | (-) 47936-47378 | 9e-10 | Ag- XP\_314147.4 | Ras-like GTPase |
| 10 | 3 | 128 | (+) 71145-75283 | NSS |  |  |
| 11 | 8 | 886 | (-) 83857-75955 | 0.0 | Aa- XP\_001664102.1| | cAMP 3,5-cyclic phosphodiesterase |
| 12 | 4 | 262 | (-) 112431-105008 | NSS |  |  |
| 13 | 2 | 90 | (+) 117122-117488 | NSS |  |  |
| 14 | 3 | 157 | (+) 118390-124426 | NSS |  |  |

\*NSS= no significant similarities. †Aa= *Aedes aegypti*, Ag= *Anopheles gambiae*, Ap= *Acyrthosiphon pisum* (pea aphid), Cq= *Culex quinquefaciatus*, Dm= *Drosophila melanogaster*.