Table 4 Results of principal component analysis: contribution of 37 variables to the first three principal components calculated from 53 females An. arabiensis and 35 females An. gambiae

|  | Component |  |  |
| :---: | :---: | :---: | :---: |
| Character | 1 | 2 | 3 |
| Hind leg length | 0.962 | -0.268 | 0.010 |
| Mid leg length | 0.946 | 0.206 | -0.245 |
| Fore leg length | 0.912 | 0.320 | 0.246 |
| Wing length including the fringe | 0.872 | -0.098 | 0.229 |
| Wing width including the fringe | 0.797 | -0.095 | 0.025 |
| Length of palpal segment III | 0.749 | 0.136 | -0.055 |
| Median dark spot | 0.655 | 0.120 | -0.081 |
| Length of palpal segment IV | 0.607 | 0.024 | -0.070 |
| Pre-apical dark spot | 0.418 | -0.031 | -0.128 |
| Palpal length | 0.414 | 0.312 | -0.150 |
| Length of apical pale band on palpus | 0.398 | 0.141 | 0.260 |
| Length of palpal segment V | 0.392 | 0.172 | 0.022 |
| Antenna flagellum length | 0.373 | -0.074 | 0.033 |
| Length of palpal segment II | 0.350 | 0.159 | -0.133 |
| Apical dark spot | 0.347 | 0.040 | -0.140 |
| Pre-sector dark spot | 0.344 | 0.026 | -0.005 |
| Apical pale spot | 0.234 | -0.029 | 0.114 |
| Accessory sector pale spot | 0.212 | 0.052 | 0.181 |
| Sub-apical pale spot | 0.202 | -0.129 | 0.188 |
| Sub-costal pale spot | 0.187 | 0.186 | 0.108 |
| Pale band at the joint of tarsomeres $3 \& 4$ of the mid leg | 0.186 | 0.028 | 0.134 |
| Pale band at the joint of tarsomeres $2 \& 3$ of the hind leg | 0.184 | -0.029 | 0.083 |
| Pale interruption of third main dark area of 1st vein | 0.148 | 0.070 | -0.006 |
| Length of basal pale band on palpus | 0.134 | -0.113 | -0.129 |
| Length of median pale band on palpus | 0.126 | -0.117 | 0.078 |
| Palpal index | -0.093 | -0.057 | -0.009 |
| Pale band at the joint of tarsomeres 1\&2 of the fore leg | 0.054 | 0.017 | 0.032 |
| Pale band at the joint of tarsomeres $1 \& 2$ of the mid leg | 0.039 | -0.131 | 0.065 |
| Pale band at the joint of tarsomeres $3 \& 4$ of the fore leg | 0.072 | -0.126 | 0.125 |
| Pale band at the joint of tarsomeres $2 \& 3$ of the mid leg | 0.060 | -0.123 | 0.092 |
| Pre-sector pale spot | 0.043 | 0.050 | -0.010 |
| Humeral pale spot | -0.106 | -0.074 | -0.182 |
| Sector pale spot | 0.058 | 0.040 | 0.150 |
| Pale band at the joint of tarsomeres $2 \& 3$ of the fore leg | 0.110 | -0.025 | 0.141 |
| Length of palpal segment I | 0.081 | 0.127 | -0.129 |
| Pale band at the joint of tarsomeres $1 \& 2$ of the hind leg | -0.061 | -0.055 | 0.101 |
| Pale band at the joint of tarsomeres $3 \& 4$ of the hind leg | -0.016 | -0.017 | 0.071 |

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[^0]:    Note: Relative percentages of explained variance for component 1, 2 and 3 are $83.2 \%, 6.3 \%$ and $3.2 \%$, respectively. The coefficients are sorted by decreasing magnitude of component 1 . High loadings indicated in bold type

