|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | **TABLA** | **PCA** | **CARGAS** |  |  |  |  |  |
| **GENES** | **PC1** | **PC2** | **PC3** | **PC4** | **PC5** | **PC6** | **PC7** | **PC8** | **PC9** | **PC10** | **PC11** | **PC12** |
| **AQ\_ADIPOQ** | -3.573E-02 | -4.438E-02 | -2.044E-01 | -6.088E-01 | -1.931E-01 | 1.731E-01 | -2.180E-02 | -7.234E-02 | -1.773E-02 | 1.827E-03 | 6.647E-02 | 3.522E-02 |
| **AQ\_ALOX5** | 1.620E-01 | 9.050E-02 | -1.208E-02 | -1.431E-02 | -1.197E-01 | -1.107E-01 | 2.035E-01 | 8.120E-02 | -5.281E-02 | 1.277E-01 | -2.135E-01 | 2.178E-01 |
| **AQ\_ARG1** | 6.118E-02 | 3.624E-01 | 1.179E-01 | 1.460E-03 | 2.652E-02 | 1.323E-01 | 1.836E-01 | -3.496E-01 | -3.286E-01 | -3.643E-02 | 1.831E-01 | 7.353E-02 |
| **AQ\_BMP2** | 1.226E-01 | 9.539E-02 | 3.146E-02 | -5.679E-02 | 2.588E-01 | 1.771E-01 | 2.491E-03 | 1.502E-03 | -2.636E-01 | -4.749E-01 | -1.275E-01 | -1.262E-03 |
| **AQ\_CCL2** | 1.084E-01 | -3.214E-01 | -1.816E-01 | 1.487E-01 | -9.499E-02 | 3.847E-02 | 2.142E-02 | -1.250E-01 | -1.315E-01 | 4.578E-02 | 1.352E-01 | 2.669E-01 |
| **AQ\_CCL5** | 1.836E-01 | -2.976E-02 | 7.486E-02 | -5.406E-02 | 8.349E-03 | 1.219E-01 | 7.484E-02 | 5.870E-02 | 8.097E-02 | 3.661E-02 | -9.344E-02 | -1.809E-01 |
| **AQ\_CCR5** | 1.740E-01 | -1.428E-01 | 8.336E-02 | -7.228E-02 | -5.371E-02 | -9.124E-02 | 1.112E-01 | 1.451E-02 | 1.232E-01 | -9.729E-02 | -6.978E-02 | -1.958E-01 |
| **AQ\_CD274** | 1.626E-01 | 1.093E-01 | -1.423E-02 | -2.759E-02 | 5.268E-02 | -5.058E-02 | -1.656E-01 | -2.544E-01 | 2.352E-01 | 9.177E-02 | -6.186E-02 | 1.399E-01 |
| **AQ\_CD36** | 1.632E-01 | 2.247E-02 | 4.645E-02 | -1.359E-02 | -7.063E-02 | -1.658E-01 | -2.682E-01 | -4.932E-02 | -1.081E-01 | -1.311E-01 | 1.116E-01 | -9.783E-02 |
| **AQ\_CHKA** | 1.121E-01 | -1.461E-01 | 2.705E-01 | -1.190E-01 | 1.198E-01 | -1.417E-01 | -2.363E-01 | -6.411E-02 | -2.973E-01 | 2.379E-01 | 1.490E-01 | 6.614E-02 |
| **AQ\_CPT1A** | 1.667E-01 | -1.576E-01 | 8.402E-02 | -2.299E-03 | -1.476E-01 | -4.643E-03 | 2.840E-02 | 9.427E-02 | -1.117E-01 | 7.104E-03 | -1.497E-02 | -2.206E-01 |
| **AQ\_CSF2** | 9.895E-02 | -7.658E-02 | -4.497E-02 | 2.246E-02 | 3.413E-01 | 2.509E-01 | -1.106E-01 | -2.536E-01 | 2.863E-01 | 3.039E-01 | 1.473E-01 | 3.825E-02 |
| **AQ\_CXCR1** | 1.406E-01 | 2.011E-01 | -1.405E-01 | 5.941E-03 | 1.131E-01 | 8.812E-02 | -1.716E-01 | 2.459E-01 | -1.299E-01 | -1.046E-01 | 2.727E-02 | -9.616E-02 |
| **AQ\_FASN** | 1.781E-01 | -1.712E-01 | 1.636E-02 | -4.589E-02 | 1.000E-01 | -5.366E-02 | -2.952E-02 | -8.096E-02 | -2.139E-02 | -3.940E-02 | -5.182E-02 | -3.691E-02 |
| **AQ\_FOXO3** | 1.201E-01 | 7.298E-02 | 2.692E-01 | -1.873E-02 | -2.410E-01 | -3.405E-02 | -3.468E-01 | 6.246E-03 | 1.305E-01 | 4.753E-02 | 6.367E-02 | 6.369E-03 |
| **AQ\_FOXP3** | 1.428E-01 | -2.430E-01 | -1.790E-01 | 1.548E-01 | -1.165E-01 | 1.986E-01 | 9.716E-02 | -7.671E-02 | -3.263E-02 | -1.672E-01 | -6.174E-02 | 2.245E-02 |
| **AQ\_G6PD** | 1.708E-01 | 1.009E-01 | 1.967E-01 | -6.293E-02 | -1.129E-01 | 7.600E-03 | 1.595E-01 | -2.953E-02 | 9.155E-02 | 4.657E-02 | 9.987E-02 | -1.449E-01 |
| **AQ\_IL10** | 9.795E-02 | 2.767E-01 | -1.957E-01 | -3.771E-02 | 5.906E-02 | -2.851E-01 | 1.594E-01 | -2.668E-01 | 4.093E-03 | 5.961E-03 | -1.828E-01 | 1.006E-01 |
| **AQ\_IL1B** | 1.508E-01 | 1.821E-01 | -2.006E-01 | 3.407E-02 | 1.070E-01 | 9.044E-02 | -1.447E-02 | 6.550E-02 | 1.986E-02 | 2.569E-01 | -1.001E-01 | 8.211E-02 |
| **AQ\_IL6** | 1.215E-01 | 4.320E-02 | -3.477E-02 | -7.621E-02 | 3.707E-01 | 2.607E-01 | 2.764E-02 | 3.194E-01 | 8.860E-02 | -3.701E-02 | 1.702E-01 | 1.297E-01 |
| **AQ\_IRS1** | 1.365E-01 | -8.711E-02 | 8.506E-02 | 1.068E-01 | -1.674E-01 | 2.806E-01 | 1.822E-01 | -1.238E-01 | 5.830E-02 | 8.684E-02 | 2.800E-02 | -1.884E-01 |
| **AQ\_JAK1** | 1.902E-01 | -8.109E-02 | -2.083E-02 | 9.380E-03 | 7.110E-02 | 1.399E-01 | 7.322E-02 | 4.073E-02 | 5.145E-03 | 7.245E-03 | -3.775E-02 | -7.792E-03 |
| **AQ\_JAK3** | 1.350E-01 | 1.805E-01 | -2.874E-01 | 1.978E-02 | 8.868E-02 | -1.776E-01 | 7.531E-02 | 1.203E-01 | -5.907E-02 | -1.179E-01 | 2.451E-01 | 1.169E-01 |
| **AQ\_LDHA** | 1.672E-01 | -6.605E-02 | 3.802E-02 | -1.677E-02 | 3.856E-02 | -8.711E-02 | 2.588E-01 | -2.578E-01 | -5.470E-02 | -8.715E-02 | -1.171E-01 | 4.403E-02 |
| **AQ\_LIF** | 1.164E-01 | -3.096E-01 | 4.841E-02 | 1.073E-04 | 7.057E-02 | 1.147E-02 | -7.874E-02 | -8.119E-02 | -1.305E-01 | -4.062E-02 | -9.341E-04 | 4.284E-01 |
| **AQ\_MAPK1** | 1.779E-01 | 9.031E-02 | 1.003E-01 | -4.143E-02 | -4.351E-02 | 4.145E-03 | -1.441E-01 | -4.633E-02 | -2.841E-02 | -1.214E-01 | -6.550E-02 | -3.527E-02 |
| **AQ\_NFE2L2** | 1.811E-01 | 2.734E-02 | 1.774E-02 | 5.840E-03 | -3.210E-02 | 1.522E-01 | 5.536E-02 | 1.191E-02 | 4.619E-02 | 1.966E-01 | -1.120E-02 | -8.976E-02 |
| **AQ\_NFKB1** | 1.779E-01 | 4.073E-03 | 2.646E-02 | -4.216E-02 | 1.015E-01 | -2.068E-02 | -1.538E-01 | -1.170E-01 | -1.476E-01 | 2.386E-02 | -5.604E-02 | -2.507E-02 |
| **AQ\_NLRP3** | 1.740E-01 | -3.473E-02 | -1.080E-01 | 6.232E-02 | -1.479E-01 | -1.139E-01 | -1.023E-01 | -2.287E-01 | -3.398E-02 | 4.603E-02 | -5.668E-02 | -1.407E-01 |
| **AQ\_NOS2** | 9.740E-02 | -3.901E-02 | -2.926E-01 | 1.952E-01 | -3.141E-01 | -6.018E-02 | -1.015E-01 | 1.376E-01 | 9.668E-02 | 4.579E-02 | 2.322E-01 | 1.456E-01 |
| **AQ\_NOX5** | -3.573E-02 | -4.438E-02 | -2.044E-01 | -6.088E-01 | -1.931E-01 | 1.731E-01 | -2.180E-02 | -7.234E-02 | -1.773E-02 | 1.827E-03 | 6.647E-02 | 3.522E-02 |
| **AQ\_PDCD1** | 1.501E-01 | -1.282E-01 | 4.641E-02 | -1.110E-01 | -4.214E-02 | -2.418E-01 | 2.597E-01 | 2.574E-01 | -8.039E-03 | 5.770E-02 | -1.721E-02 | 1.302E-01 |
| **AQ\_PPARG** | 1.478E-01 | 1.581E-01 | 6.405E-02 | -8.661E-02 | -1.656E-01 | -1.826E-01 | -3.206E-02 | -1.470E-02 | 2.882E-01 | -2.239E-01 | -7.588E-02 | 3.828E-02 |
| **AQ\_PTAFR** | 1.805E-01 | 1.557E-01 | 2.900E-04 | -3.205E-03 | -3.054E-02 | 4.168E-02 | -1.105E-01 | 6.879E-02 | -1.622E-01 | 1.139E-01 | 3.212E-02 | -1.108E-01 |
| **AQ\_PTGS2** | 1.538E-01 | 4.962E-02 | 1.548E-01 | -7.520E-02 | 1.222E-02 | 9.041E-02 | 7.802E-02 | 2.635E-01 | -9.395E-02 | 2.190E-01 | -5.495E-02 | -1.117E-01 |
| **AQ\_SLC2A4** | 2.397E-02 | 2.342E-01 | 3.428E-01 | 4.452E-02 | -2.948E-01 | 1.821E-01 | 2.234E-01 | 9.514E-02 | -5.295E-02 | -1.839E-02 | 2.930E-01 | 3.451E-01 |
| **AQ\_SOD1** | 1.593E-01 | -9.652E-02 | 6.470E-02 | 2.447E-02 | -3.016E-02 | 1.750E-01 | 1.322E-01 | -7.509E-02 | 1.275E-01 | -1.643E-01 | -2.033E-01 | 5.861E-02 |
| **AQ\_SREBF1** | 1.836E-01 | -1.028E-01 | -5.415E-03 | 3.119E-02 | 2.107E-02 | 9.163E-02 | -6.939E-02 | -5.739E-03 | -1.361E-01 | -4.535E-02 | -1.293E-02 | -5.783E-02 |
| **AQ\_STAT3** | 1.567E-01 | -2.767E-02 | -2.681E-01 | 1.384E-01 | -1.157E-01 | 6.119E-02 | 5.875E-02 | 1.070E-01 | 4.952E-03 | -1.800E-02 | 1.374E-01 | -9.665E-02 |
| **AQ\_TGFB1** | 1.792E-01 | 2.697E-02 | -9.077E-02 | 1.790E-02 | -3.049E-02 | 3.632E-02 | 3.596E-02 | 9.080E-02 | 8.164E-02 | -1.619E-01 | -5.914E-02 | 3.858E-03 |
| **AQ\_TLR3** | 1.522E-01 | 4.012E-02 | 4.015E-02 | -1.662E-01 | 1.841E-01 | -1.637E-01 | 1.800E-02 | 7.985E-02 | 2.719E-01 | -4.679E-02 | 7.215E-03 | 1.586E-01 |
| **AQ\_TLR4** | 1.539E-01 | 1.870E-01 | -1.653E-01 | 4.320E-02 | -1.231E-02 | -3.612E-02 | 1.101E-01 | -6.883E-02 | -9.209E-02 | 3.598E-01 | -2.837E-02 | -4.541E-02 |
| **AQ\_TNF** | 1.594E-01 | 7.005E-02 | -1.466E-01 | 6.000E-02 | -4.992E-02 | -4.310E-02 | -1.607E-01 | -7.500E-02 | -1.275E-02 | -1.858E-01 | 3.354E-01 | -1.755E-01 |
| **AQ\_GPD2** | 1.544E-01 | -1.553E-01 | 6.338E-02 | -8.268E-02 | -1.077E-03 | -2.071E-01 | -5.687E-02 | 1.833E-01 | -2.335E-01 | 8.829E-02 | -6.811E-02 | 1.438E-01 |
| **AQ\_GPX1** | 1.269E-01 | 1.055E-01 | 1.287E-01 | 1.017E-01 | -1.098E-01 | 2.158E-01 | -2.794E-01 | 9.797E-03 | 2.282E-01 | -1.043E-01 | -1.364E-01 | 3.125E-01 |
| **AQ\_IFNG** | 1.618E-01 | -3.143E-02 | -2.916E-03 | -1.066E-01 | 1.076E-01 | -1.440E-01 | 7.036E-05 | 1.145E-01 | 1.548E-01 | 4.622E-02 | -1.616E-02 | -6.533E-02 |

Fuente: Elaboración propia; PCA1: componentes principales 1, 2, 3...n; Las cifras se muestran en notación científica con tres decimales.

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **GENES** | **PC13** | **PC14** | **PC15** | **PC16** | **PC17** | **PC18** | **PC19** | **PC20** | **PC21** | **PC22** | **PC23** | **PC24** |
| **AQ\_ADIPOQ** | 2.095E-02 | -3.147E-02 | -9.929E-03 | 9.059E-03 | -2.856E-03 | 1.053E-02 | -6.823E-04 | -4.937E-03 | -3.856E-02 | 5.982E-03 | 2.380E-02 | -1.641E-03 |
| **AQ\_ALOX5** | 2.265E-01 | -2.518E-01 | 1.232E-01 | -8.575E-02 | -9.826E-02 | -1.659E-01 | 1.122E-01 | -1.064E-01 | -1.584E-02 | -7.338E-02 | 2.633E-02 | -2.677E-02 |
| **AQ\_ARG1** | -1.451E-01 | 9.680E-02 | 1.663E-01 | -1.192E-02 | 1.155E-01 | -2.396E-02 | 1.115E-01 | 1.537E-01 | -1.649E-02 | 6.813E-02 | 2.861E-01 | 8.108E-02 |
| **AQ\_BMP2** | 2.479E-01 | 2.893E-01 | 7.326E-02 | -7.693E-02 | 6.206E-02 | 1.160E-01 | -8.038E-02 | -2.621E-02 | 6.882E-02 | 1.699E-01 | 4.090E-02 | -7.037E-03 |
| **AQ\_CCL2** | -2.880E-02 | 2.031E-01 | -1.189E-01 | 3.277E-01 | 1.135E-01 | 9.904E-02 | 7.894E-02 | 2.465E-01 | 1.762E-01 | -6.288E-02 | -9.687E-02 | 1.643E-02 |
| **AQ\_CCL5** | -1.905E-01 | -4.568E-02 | 2.040E-02 | -8.102E-03 | 8.644E-02 | 1.228E-01 | -7.451E-02 | 4.567E-02 | 9.164E-02 | 7.329E-02 | 3.101E-02 | -1.103E-01 |
| **AQ\_CCR5** | -5.145E-02 | 8.961E-02 | 1.657E-01 | 3.036E-02 | 2.317E-01 | 5.599E-02 | 3.214E-02 | -1.357E-02 | 6.287E-02 | -8.319E-03 | 2.686E-02 | -1.511E-01 |
| **AQ\_CD274** | 4.738E-02 | -1.749E-02 | 2.281E-01 | 1.277E-01 | -6.057E-02 | 1.236E-01 | -1.199E-01 | 9.866E-02 | 2.025E-01 | 6.547E-02 | -1.117E-02 | 1.707E-01 |
| **AQ\_CD36** | 5.542E-03 | 8.624E-02 | -1.053E-01 | 1.742E-01 | 1.714E-01 | -3.375E-01 | 1.379E-01 | -2.223E-01 | -2.147E-01 | -3.301E-02 | 6.970E-02 | -1.470E-01 |
| **AQ\_CHKA** | -3.429E-02 | -9.150E-02 | -2.320E-01 | -1.838E-01 | 7.499E-02 | -1.433E-01 | 1.686E-03 | 1.324E-01 | 5.830E-03 | -1.844E-02 | 7.824E-02 | -3.296E-01 |
| **AQ\_CPT1A** | -8.296E-02 | -1.811E-01 | -5.489E-03 | 5.538E-02 | 3.272E-02 | -2.041E-01 | 9.777E-02 | -2.070E-01 | -9.841E-02 | 1.872E-02 | -1.993E-01 | 4.160E-01 |
| **AQ\_CSF2** | 2.361E-02 | 5.846E-02 | 9.791E-02 | -2.439E-01 | 3.317E-01 | -8.075E-02 | -5.276E-02 | -3.751E-01 | -7.647E-02 | 3.524E-02 | -8.607E-02 | 6.434E-02 |
| **AQ\_CXCR1** | 3.004E-02 | -2.658E-01 | 1.853E-01 | 2.914E-01 | 9.762E-02 | 6.025E-02 | -3.629E-02 | -2.159E-02 | 8.168E-02 | -3.828E-01 | 1.220E-01 | -1.307E-01 |
| **AQ\_FASN** | -9.424E-02 | -5.983E-02 | -2.239E-01 | -4.109E-02 | -2.341E-01 | 1.044E-01 | -7.077E-02 | -6.604E-02 | 1.445E-01 | -9.784E-02 | 2.158E-01 | 1.543E-01 |
| **AQ\_FOXO3** | -9.871E-02 | 1.344E-02 | 1.796E-01 | 3.050E-02 | -1.086E-01 | 3.809E-01 | -2.995E-01 | -1.614E-01 | -4.616E-02 | -2.244E-02 | 2.266E-02 | -5.108E-03 |
| **AQ\_FOXP3** | -5.114E-02 | -1.410E-01 | 4.555E-02 | -6.871E-02 | 1.531E-01 | 7.039E-02 | -1.377E-02 | -1.175E-02 | 1.924E-04 | -1.130E-01 | -7.399E-02 | -5.613E-02 |
| **AQ\_G6PD** | 3.451E-02 | 7.370E-02 | 2.187E-02 | -8.959E-02 | -3.692E-02 | 9.404E-02 | 1.666E-01 | 1.275E-01 | 1.065E-01 | -2.344E-01 | -1.206E-01 | 9.210E-02 |
| **AQ\_IL10** | -1.721E-01 | -1.642E-01 | -1.191E-01 | 1.420E-01 | -3.565E-02 | 2.209E-02 | -3.313E-01 | -2.314E-02 | -4.487E-02 | 2.083E-01 | -2.539E-01 | -2.656E-01 |
| **AQ\_IL1B** | 2.106E-01 | -7.939E-02 | 2.061E-02 | -5.908E-02 | -9.639E-02 | 1.224E-01 | 3.407E-01 | -1.858E-01 | -1.563E-02 | -3.683E-02 | 2.158E-01 | -2.099E-02 |
| **AQ\_IL6** | -9.842E-02 | 1.422E-01 | -1.263E-01 | 1.225E-01 | -2.372E-01 | -1.403E-01 | -1.287E-01 | -5.898E-03 | -7.731E-02 | 1.925E-01 | -1.404E-01 | 3.938E-02 |
| **AQ\_IRS1** | -1.123E-01 | 1.413E-01 | 1.213E-01 | 2.289E-01 | -4.423E-01 | -2.757E-01 | -4.806E-03 | -1.676E-01 | 1.233E-01 | 1.910E-02 | 1.826E-01 | -2.000E-01 |
| **AQ\_JAK1** | -1.632E-02 | -1.238E-01 | -1.244E-01 | -8.396E-02 | -1.266E-01 | 1.140E-01 | 1.661E-02 | 4.219E-02 | 1.617E-03 | -1.016E-01 | -5.566E-02 | -9.025E-03 |
| **AQ\_JAK3** | -1.526E-01 | -1.160E-01 | -1.011E-01 | 3.858E-02 | -2.194E-02 | -1.532E-01 | -9.488E-02 | -1.576E-01 | 9.802E-02 | -6.199E-02 | 4.766E-02 | 2.459E-01 |
| **AQ\_LDHA** | -7.115E-02 | 3.900E-02 | 1.394E-01 | -1.442E-01 | -7.704E-02 | -4.755E-02 | -1.329E-01 | -6.123E-02 | -2.547E-01 | -1.847E-01 | 2.640E-01 | 7.123E-02 |
| **AQ\_LIF** | -3.028E-02 | -1.694E-01 | 4.359E-01 | 8.319E-02 | -6.227E-02 | -1.866E-01 | 2.874E-02 | -2.085E-02 | 1.217E-01 | 4.647E-02 | -2.101E-01 | -4.680E-02 |
| **AQ\_MAPK1** | 1.696E-01 | 1.120E-01 | 4.231E-02 | 2.699E-01 | 2.062E-01 | -7.412E-03 | -8.589E-04 | -4.904E-02 | -7.785E-02 | -1.993E-01 | -2.292E-01 | 6.896E-02 |
| **AQ\_NFE2L2** | 5.777E-02 | 1.404E-01 | -1.950E-01 | 2.275E-01 | 4.181E-02 | -3.507E-02 | 5.802E-02 | 2.318E-02 | 2.511E-01 | 1.134E-01 | -9.289E-03 | -1.820E-01 |
| **AQ\_NFKB1** | -3.788E-02 | 3.831E-02 | -1.544E-01 | -8.229E-02 | -3.049E-01 | 5.131E-02 | -6.189E-02 | -4.913E-02 | -1.971E-01 | -2.361E-01 | -1.693E-01 | -2.170E-01 |
| **AQ\_NLRP3** | 6.184E-02 | 8.937E-03 | -8.298E-02 | -1.357E-01 | -1.413E-02 | -7.102E-02 | 2.457E-02 | 1.818E-01 | 4.458E-03 | 1.800E-01 | -8.398E-02 | 2.046E-01 |
| **AQ\_NOS2** | 2.333E-01 | 3.170E-01 | 7.190E-02 | -1.168E-01 | -9.105E-02 | -9.620E-02 | -3.215E-01 | 9.669E-02 | -2.393E-01 | -9.631E-02 | 1.916E-01 | -1.789E-02 |
| **AQ\_NOX5** | 2.095E-02 | -3.147E-02 | -9.929E-03 | 9.059E-03 | -2.856E-03 | 1.053E-02 | -6.823E-04 | -4.937E-03 | -3.856E-02 | 5.982E-03 | 2.380E-02 | -1.641E-03 |
| **AQ\_PDCD1** | -6.243E-02 | 1.082E-02 | -6.933E-02 | 2.425E-02 | 1.744E-01 | 2.362E-01 | -9.467E-02 | -2.140E-01 | 1.535E-01 | 4.377E-02 | 1.487E-01 | -4.398E-02 |
| **AQ\_PPARG** | 2.127E-01 | 6.321E-02 | -5.230E-02 | -6.366E-02 | -6.401E-02 | -2.729E-01 | 1.488E-01 | -5.166E-02 | 2.183E-01 | 2.244E-01 | -6.959E-02 | -6.006E-02 |
| **AQ\_PTAFR** | 1.100E-01 | -7.717E-02 | 2.880E-02 | -4.019E-02 | -8.088E-02 | 7.549E-03 | -8.702E-03 | 1.878E-01 | -4.258E-03 | 7.995E-02 | -1.598E-01 | 8.870E-02 |
| **AQ\_PTGS2** | 1.633E-01 | -7.507E-02 | 2.112E-01 | -8.824E-02 | 1.431E-01 | -2.306E-01 | -3.810E-01 | 2.590E-01 | 2.143E-02 | 1.245E-01 | 2.911E-02 | 3.355E-03 |
| **AQ\_SLC2A4** | -1.329E-01 | -1.445E-02 | -1.370E-01 | -1.036E-01 | 6.457E-02 | 5.306E-02 | -2.031E-02 | -1.307E-01 | -4.573E-02 | -4.397E-02 | -2.382E-01 | 3.502E-02 |
| **AQ\_SOD1** | 1.614E-01 | -4.161E-02 | -3.734E-01 | 8.889E-03 | 2.174E-01 | -8.756E-02 | -2.598E-01 | -3.107E-02 | -1.035E-01 | -8.671E-02 | 9.475E-02 | 5.055E-02 |
| **AQ\_SREBF1** | 1.139E-01 | -1.228E-01 | -8.968E-02 | -1.243E-01 | -1.784E-01 | 1.438E-01 | -3.782E-04 | 1.491E-01 | -3.884E-02 | 9.168E-02 | -8.673E-02 | 2.489E-01 |
| **AQ\_STAT3** | -9.577E-02 | -1.663E-01 | 6.684E-02 | -2.455E-01 | 1.657E-01 | 2.778E-02 | 7.944E-02 | 1.543E-01 | -3.199E-02 | 1.750E-01 | 1.783E-02 | -2.808E-01 |
| **AQ\_TGFB1** | -1.289E-01 | 1.405E-01 | 1.414E-01 | -1.294E-01 | -9.106E-02 | 1.784E-01 | 2.739E-01 | -1.191E-02 | -3.411E-01 | 8.609E-02 | -2.604E-01 | -2.165E-01 |
| **AQ\_TLR3** | -8.406E-02 | 2.160E-01 | -7.959E-03 | -2.368E-01 | -1.012E-03 | -1.370E-01 | 1.241E-01 | 2.838E-01 | 1.881E-01 | -4.093E-01 | -4.502E-02 | -1.398E-03 |
| **AQ\_TLR4** | 8.692E-02 | 1.850E-01 | -1.100E-01 | 1.615E-01 | 1.253E-01 | 1.437E-01 | 6.599E-02 | -3.276E-02 | -7.968E-02 | -4.985E-02 | -1.086E-01 | 8.122E-02 |
| **AQ\_TNF** | -1.557E-01 | -6.789E-02 | -1.453E-02 | -2.214E-01 | 8.757E-03 | 3.059E-02 | -3.247E-02 | -1.542E-01 | 3.513E-01 | 6.579E-02 | 3.579E-02 | 7.395E-03 |
| **AQ\_GPD2** | 4.278E-02 | 2.615E-01 | 3.825E-02 | -3.761E-02 | -2.190E-02 | 1.723E-01 | 1.227E-01 | -2.086E-01 | 1.944E-02 | 2.823E-01 | 1.437E-01 | 7.358E-02 |
| **AQ\_GPX1** | -7.622E-02 | -2.534E-01 | -2.004E-01 | 8.583E-02 | 7.051E-02 | 3.099E-02 | 1.793E-01 | 1.572E-01 | -1.161E-01 | 1.688E-01 | 3.191E-01 | 1.333E-02 |
| **AQ\_IFNG** | -4.232E-01 | 6.044E-02 | 9.914E-02 | 1.954E-01 | 7.210E-02 | -7.277E-02 | 8.275E-02 | 2.370E-01 | -3.162E-01 | 1.121E-01 | 1.404E-01 | 1.946E-01 |

Fuente: Elaboración propia; PCA1: componentes principales 1, 2, 3....n ; Las cifras se muestran en notación científica con tres decimales.

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| **GENES** | **PC25** | **PC26** | **PC27** | **PC28** | **PC29** | **PC30** | **PC31** | **PC32** | **PC33** | **PC34** | **PC35** | **PC36** |
| **AQ\_ADIPOQ** | 1.526E-02 | -1.560E-02 | 2.000E-02 | 4.668E-03 | 5.438E-03 | -1.615E-02 | -6.018E-04 | -8.753E-03 | -1.610E-03 | 9.986E-03 | -3.502E-03 | -3.155E-03 |
| **AQ\_ALOX5** | 1.736E-01 | -2.699E-02 | -1.985E-01 | 2.773E-02 | -5.133E-02 | 4.911E-02 | -6.702E-02 | -2.582E-01 | 2.454E-02 | 3.631E-02 | 3.300E-01 | 1.669E-01 |
| **AQ\_ARG1** | -2.174E-01 | -4.585E-02 | -1.881E-01 | -5.629E-03 | -5.072E-02 | 2.953E-01 | 1.135E-01 | 1.402E-01 | -2.604E-02 | -2.011E-01 | 2.794E-02 | 5.183E-02 |
| **AQ\_BMP2** | -5.135E-03 | -9.801E-02 | 1.493E-01 | -2.041E-02 | 1.579E-01 | -8.571E-02 | -1.679E-01 | -8.965E-02 | -2.479E-02 | 2.985E-01 | 3.435E-01 | 2.906E-02 |
| **AQ\_CCL2** | 1.181E-01 | -2.166E-01 | -2.343E-01 | -2.310E-01 | -2.249E-02 | -1.091E-01 | -5.550E-03 | 1.385E-01 | -8.320E-02 | 2.357E-02 | 4.840E-02 | 8.024E-02 |
| **AQ\_CCL5** | -1.455E-01 | 2.241E-01 | -2.669E-02 | -1.530E-01 | -3.617E-01 | 1.742E-01 | 2.033E-01 | -1.623E-01 | -1.663E-01 | 2.256E-01 | 1.572E-02 | -1.705E-01 |
| **AQ\_CCR5** | 1.326E-01 | 4.471E-02 | -2.135E-01 | 1.886E-01 | 1.393E-02 | -1.406E-02 | 1.547E-01 | 2.416E-01 | 2.016E-01 | 1.919E-01 | -8.677E-03 | -1.076E-01 |
| **AQ\_CD274** | 4.876E-02 | 1.500E-01 | 6.082E-02 | -4.660E-01 | -8.666E-02 | -1.052E-01 | -8.321E-02 | -6.233E-03 | 3.394E-01 | 1.758E-02 | 4.707E-02 | -1.934E-01 |
| **AQ\_CD36** | -5.915E-04 | -9.940E-02 | -7.661E-02 | -1.690E-01 | -3.194E-01 | -2.639E-01 | -1.369E-01 | -9.785E-03 | -3.304E-01 | -1.963E-02 | -2.351E-02 | -3.609E-02 |
| **AQ\_CHKA** | -8.569E-02 | 1.819E-01 | -6.879E-02 | -1.003E-01 | 3.429E-01 | 8.812E-03 | 4.382E-02 | -1.621E-01 | 1.645E-01 | 1.806E-01 | 3.856E-02 | -1.066E-01 |
| **AQ\_CPT1A** | -2.498E-01 | -2.036E-01 | 2.260E-01 | -1.745E-01 | 2.017E-01 | 1.410E-01 | 1.475E-01 | 2.406E-01 | 9.008E-02 | -2.226E-02 | 2.700E-01 | -1.652E-01 |
| **AQ\_CSF2** | 1.916E-01 | -9.039E-02 | -7.984E-02 | 2.050E-02 | 4.748E-02 | 5.679E-02 | 1.482E-01 | -3.323E-02 | -1.237E-01 | 2.624E-02 | 8.591E-02 | 1.543E-01 |
| **AQ\_CXCR1** | 1.582E-01 | 1.539E-01 | 8.372E-02 | -1.783E-01 | 1.461E-01 | 1.269E-01 | 1.523E-01 | -1.166E-02 | -1.460E-01 | -1.371E-01 | -4.105E-02 | 1.100E-02 |
| **AQ\_FASN** | -1.994E-02 | 1.439E-01 | -1.123E-01 | 9.821E-03 | 4.750E-02 | 1.959E-02 | -1.156E-01 | -4.446E-02 | -2.092E-01 | -8.617E-03 | 1.031E-01 | 1.111E-01 |
| **AQ\_FOXO3** | -3.523E-01 | -2.464E-01 | -1.847E-01 | 1.044E-01 | 8.905E-02 | -4.405E-02 | -1.551E-01 | -1.333E-01 | -1.109E-01 | -9.981E-02 | 3.935E-02 | 7.327E-02 |
| **AQ\_FOXP3** | 3.787E-02 | 1.268E-02 | -6.716E-02 | 1.755E-01 | 1.400E-01 | 3.290E-01 | -3.657E-01 | -8.192E-02 | -1.556E-01 | -6.808E-02 | -1.455E-01 | -2.383E-01 |
| **AQ\_G6PD** | 1.344E-01 | 3.405E-02 | 1.162E-01 | 2.850E-02 | -1.350E-01 | -2.000E-01 | 1.301E-02 | -6.364E-03 | -1.571E-01 | -9.046E-02 | 2.872E-01 | 1.867E-01 |
| **AQ\_IL10** | 8.289E-02 | -8.783E-02 | 9.787E-02 | 3.938E-02 | 2.537E-01 | -6.241E-02 | 1.467E-01 | 1.446E-01 | -2.292E-01 | -9.953E-02 | 8.090E-02 | 4.173E-02 |
| **AQ\_IL1B** | -2.088E-01 | 1.098E-01 | -1.359E-01 | -9.048E-03 | 1.710E-01 | -1.727E-01 | -2.167E-01 | 4.069E-01 | 4.296E-04 | 2.663E-02 | -1.026E-01 | -3.538E-02 |
| **AQ\_IL6** | -7.676E-02 | 1.135E-01 | -1.565E-01 | 3.926E-02 | -4.060E-02 | -5.319E-02 | 1.077E-02 | 8.696E-02 | -8.532E-02 | -1.522E-01 | 6.075E-02 | -2.900E-01 |
| **AQ\_IRS1** | 7.774E-02 | -7.266E-02 | 1.217E-01 | -7.417E-02 | 2.639E-01 | -9.500E-02 | 3.683E-02 | -7.826E-02 | -1.361E-02 | 1.711E-01 | -1.293E-01 | 7.774E-02 |
| **AQ\_JAK1** | 8.789E-02 | 1.199E-02 | -1.059E-01 | -3.102E-02 | -7.726E-02 | -5.794E-02 | 5.471E-02 | -1.721E-01 | -3.460E-02 | -2.539E-01 | 1.908E-01 | -1.782E-01 |
| **AQ\_JAK3** | -1.175E-01 | -1.212E-01 | -1.163E-01 | 1.474E-01 | -1.290E-01 | -9.879E-02 | -2.306E-02 | -2.713E-01 | 2.879E-01 | 2.047E-01 | -1.311E-01 | 6.526E-02 |
| **AQ\_LDHA** | 5.716E-02 | -1.507E-02 | 2.086E-02 | 9.231E-02 | -1.032E-01 | -2.687E-01 | 1.427E-01 | -4.786E-02 | 6.215E-02 | -8.084E-02 | -1.687E-01 | -3.025E-01 |
| **AQ\_LIF** | -2.400E-01 | 1.473E-01 | 1.930E-01 | 1.827E-01 | -1.637E-01 | 1.330E-02 | 6.095E-03 | 2.152E-02 | -6.558E-02 | 4.581E-02 | -3.420E-02 | 1.422E-01 |
| **AQ\_MAPK1** | 5.576E-02 | 1.122E-01 | -1.515E-01 | 2.561E-01 | 1.950E-01 | -1.276E-01 | 1.237E-01 | -7.427E-02 | 2.420E-01 | -1.058E-01 | -6.223E-02 | -1.078E-01 |
| **AQ\_NFE2L2** | -1.336E-01 | -3.415E-02 | 4.008E-02 | 3.793E-01 | -9.686E-02 | 1.365E-02 | -1.050E-02 | -7.726E-02 | 2.375E-01 | -2.228E-01 | 9.315E-02 | 8.376E-02 |
| **AQ\_NFKB1** | 1.448E-01 | -1.785E-01 | 5.641E-02 | 1.059E-02 | -3.318E-01 | 3.255E-01 | -1.519E-01 | 3.073E-01 | 3.041E-01 | 3.103E-02 | 8.362E-02 | 2.609E-02 |
| **AQ\_NLRP3** | -8.644E-03 | 2.876E-01 | 3.005E-02 | 1.657E-01 | 3.768E-02 | -1.629E-01 | -2.107E-01 | 5.518E-02 | -1.567E-01 | -1.952E-02 | 1.012E-02 | -1.838E-01 |
| **AQ\_NOS2** | -8.268E-03 | 1.658E-01 | 4.827E-02 | 4.458E-02 | 5.025E-02 | 1.808E-01 | 2.086E-01 | 8.864E-02 | -2.358E-02 | 6.765E-02 | 2.237E-01 | -2.044E-02 |
| **AQ\_NOX5** | 1.526E-02 | -1.560E-02 | 2.000E-02 | 4.668E-03 | 5.438E-03 | -1.615E-02 | -6.018E-04 | -8.753E-03 | -1.610E-03 | 9.986E-03 | -3.502E-03 | -3.155E-03 |
| **AQ\_PDCD1** | -5.389E-02 | -3.521E-02 | -3.866E-02 | 1.002E-02 | -4.702E-02 | -2.713E-02 | 4.644E-02 | 2.705E-01 | -7.581E-02 | 2.174E-01 | 2.840E-02 | -1.167E-02 |
| **AQ\_PPARG** | -1.507E-02 | -1.748E-02 | -2.701E-01 | -1.460E-01 | 2.500E-02 | 3.660E-01 | 3.428E-02 | -3.775E-02 | -6.834E-02 | -4.483E-02 | -9.636E-02 | -7.621E-02 |
| **AQ\_PTAFR** | -4.025E-02 | 1.912E-01 | 3.991E-02 | 1.874E-01 | -1.224E-01 | -6.746E-02 | 2.379E-01 | 1.218E-01 | -1.680E-01 | 1.801E-01 | -1.265E-01 | 1.946E-01 |
| **AQ\_PTGS2** | 1.640E-01 | -2.661E-01 | -4.781E-03 | -6.365E-02 | -7.532E-02 | -5.731E-02 | -3.152E-01 | 1.225E-01 | -1.391E-02 | -5.935E-02 | -2.284E-01 | 3.351E-04 |
| **AQ\_SLC2A4** | 1.965E-01 | 1.969E-01 | 2.329E-02 | -1.004E-01 | 9.798E-02 | -6.709E-02 | -1.290E-01 | 3.887E-02 | 8.908E-03 | 6.469E-02 | -6.239E-02 | -8.417E-02 |
| **AQ\_SOD1** | -2.584E-01 | 2.081E-01 | 1.345E-01 | -2.025E-01 | -3.167E-02 | -3.940E-03 | -1.297E-02 | 4.380E-02 | 1.324E-01 | -1.536E-01 | -1.804E-01 | 4.152E-01 |
| **AQ\_SREBF1** | 1.263E-01 | -2.494E-01 | -2.787E-01 | -6.279E-02 | 1.141E-01 | 1.984E-03 | 3.023E-01 | -6.942E-02 | -2.483E-02 | 1.062E-01 | -2.813E-01 | 1.379E-01 |
| **AQ\_STAT3** | -1.947E-01 | -1.655E-01 | 4.200E-02 | -1.461E-01 | 2.002E-02 | -2.232E-01 | 4.964E-02 | -1.208E-01 | 1.746E-01 | -2.020E-01 | 1.828E-01 | -1.533E-02 |
| **AQ\_TGFB1** | -8.189E-02 | 6.617E-02 | -3.819E-03 | -1.570E-01 | 1.837E-02 | -5.755E-02 | -2.747E-03 | -5.607E-02 | 7.337E-02 | 6.700E-02 | -2.236E-01 | 1.888E-01 |
| **AQ\_TLR3** | -1.799E-01 | -2.414E-01 | 2.185E-01 | 3.235E-02 | 1.762E-01 | 9.125E-03 | 3.618E-02 | 1.530E-02 | -1.518E-01 | -4.440E-02 | -1.343E-01 | -4.517E-02 |
| **AQ\_TLR4** | -9.057E-02 | -1.009E-01 | 2.802E-01 | -3.476E-02 | -3.190E-02 | 1.997E-01 | -1.149E-01 | -3.123E-01 | -8.471E-02 | 2.576E-01 | -1.427E-01 | -1.550E-01 |
| **AQ\_TNF** | 2.289E-01 | 6.677E-02 | 2.016E-01 | 5.984E-02 | -1.766E-02 | 2.225E-02 | -1.085E-01 | 1.256E-01 | 9.238E-02 | -3.229E-02 | -1.069E-01 | 1.092E-01 |
| **AQ\_GPD2** | 2.301E-01 | 3.284E-02 | 2.551E-01 | -3.743E-02 | 7.359E-03 | 9.466E-02 | 1.299E-01 | -1.318E-01 | 1.211E-02 | -4.382E-01 | -1.720E-01 | 8.901E-03 |
| **AQ\_GPX1** | 1.799E-01 | -2.270E-01 | 2.648E-01 | 2.042E-01 | -5.741E-02 | -1.455E-02 | 1.284E-01 | 4.809E-02 | -9.037E-03 | 1.658E-01 | 3.003E-02 | -1.310E-01 |
| **AQ\_IFNG** | 1.674E-01 | 1.558E-01 | -6.381E-02 | 3.606E-02 | 1.694E-01 | 1.415E-01 | -2.626E-01 | -5.145E-02 | 6.678E-02 | 3.405E-02 | 1.355E-01 | 2.871E-01 |

Fuente: Elaboración propia; PCA1: componentes principales 1, 2,3...n; Las cifras se muestran en notación científica con tres decimales.

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| **GENES** | **PC37** | **PC38** | **PC39** | **PC40** | **PC41** | **PC42** | **PC43** | **PC44** | **PC45** | **PC46** | **PC47** |
| **AQ\_ADIPOQ** | 7.527E-04 | -2.123E-03 | -6.882E-04 | 2.403E-04 | 1.069E-02 | -1.271E-03 | -7.924E-04 | -1.660E-03 | 1.123E-03 | 8.413E-04 | -7.071E-01 |
| **AQ\_ALOX5** | 4.321E-03 | 6.421E-02 | 2.999E-01 | -1.276E-01 | 1.168E-01 | -4.961E-02 | -2.748E-01 | 8.262E-03 | -2.712E-01 | -1.079E-01 | -3.494E-08 |
| **AQ\_ARG1** | -4.866E-02 | 1.336E-01 | 1.724E-02 | -2.045E-01 | 5.489E-02 | 5.380E-02 | -1.207E-02 | -5.924E-03 | 5.011E-02 | -6.756E-02 | -1.152E-08 |
| **AQ\_BMP2** | -1.094E-02 | -5.971E-02 | -6.430E-02 | 1.473E-01 | -1.551E-02 | -2.509E-02 | -3.774E-02 | -6.626E-02 | 1.559E-02 | -5.323E-03 | 9.543E-10 |
| **AQ\_CCL2** | -1.043E-01 | -8.111E-02 | 2.266E-01 | 1.544E-01 | 1.216E-01 | -2.067E-01 | -8.156E-03 | -6.180E-02 | -2.843E-02 | 1.568E-01 | -8.205E-10 |
| **AQ\_CCL5** | -2.975E-01 | -1.129E-01 | 2.244E-01 | 2.807E-01 | 9.737E-03 | 7.924E-02 | 1.505E-01 | -7.539E-02 | -1.869E-01 | -2.351E-01 | 3.232E-10 |
| **AQ\_CCR5** | 4.027E-01 | -2.637E-01 | 5.905E-02 | -1.796E-01 | 3.415E-01 | 1.091E-01 | -7.306E-02 | -8.359E-02 | 1.720E-01 | -1.023E-01 | 2.632E-08 |
| **AQ\_CD274** | 1.364E-01 | 1.345E-01 | -1.425E-01 | -1.401E-01 | -1.104E-01 | 1.609E-01 | -7.054E-02 | -1.497E-01 | -1.364E-01 | 2.173E-02 | -1.622E-08 |
| **AQ\_CD36** | 8.657E-02 | -1.636E-02 | -1.172E-01 | -8.348E-02 | -1.228E-01 | 2.192E-01 | -1.232E-01 | -8.091E-02 | -6.149E-02 | -1.232E-01 | -4.197E-08 |
| **AQ\_CHKA** | 4.099E-02 | -2.792E-02 | 6.315E-02 | -1.064E-01 | -1.317E-01 | -1.480E-01 | 1.127E-01 | -9.785E-02 | -6.267E-04 | 6.315E-02 | 1.707E-09 |
| **AQ\_CPT1A** | -7.765E-02 | -1.065E-01 | 2.270E-02 | -3.429E-02 | 2.391E-02 | -3.383E-02 | -1.626E-02 | -1.182E-01 | -8.960E-02 | 9.592E-02 | -1.201E-08 |
| **AQ\_CSF2** | -5.322E-02 | 9.752E-02 | -1.039E-01 | 7.026E-02 | 1.024E-01 | -7.243E-02 | 3.598E-02 | -3.232E-02 | -1.452E-03 | 5.615E-02 | -7.109E-09 |
| **AQ\_CXCR1** | 4.265E-02 | -2.720E-02 | -2.410E-01 | 2.848E-02 | 1.787E-01 | -3.028E-01 | -9.782E-03 | 6.359E-02 | -3.481E-02 | -1.048E-02 | 7.134E-09 |
| **AQ\_FASN** | -8.161E-02 | -1.034E-01 | -1.411E-01 | -1.625E-01 | 3.286E-01 | 4.003E-01 | 1.428E-01 | 2.329E-01 | -1.150E-01 | 3.628E-01 | 5.060E-08 |
| **AQ\_FOXO3** | 9.316E-02 | -3.734E-02 | 1.242E-01 | 6.390E-02 | 6.002E-02 | -1.792E-01 | -8.086E-02 | -4.008E-02 | 3.349E-02 | -1.532E-02 | -1.115E-08 |
| **AQ\_FOXP3** | 2.231E-01 | 1.850E-01 | 4.926E-04 | -3.819E-02 | -2.355E-01 | 1.065E-01 | 1.140E-01 | -2.700E-01 | -1.756E-01 | 4.974E-02 | -3.254E-08 |
| **AQ\_G6PD** | 2.299E-01 | -1.472E-02 | 3.570E-02 | -1.266E-01 | -2.542E-01 | -1.518E-01 | 5.268E-01 | -2.062E-03 | 2.661E-02 | -1.398E-02 | -9.670E-09 |
| **AQ\_IL10** | -9.481E-03 | -1.236E-01 | 3.859E-02 | -5.184E-03 | -4.830E-02 | 1.029E-01 | 1.136E-01 | -1.057E-01 | -1.740E-02 | -6.677E-02 | -3.452E-08 |
| **AQ\_IL1B** | -4.744E-02 | -2.189E-01 | 1.069E-01 | 2.033E-01 | -1.220E-01 | 8.598E-02 | 1.299E-01 | -6.204E-02 | 5.237E-02 | -1.022E-01 | 3.669E-08 |
| **AQ\_IL6** | 2.492E-01 | 6.498E-02 | 2.278E-01 | -1.954E-01 | -9.418E-03 | -1.354E-01 | -1.521E-02 | 1.674E-01 | -1.293E-01 | -2.099E-02 | -1.162E-08 |
| **AQ\_IRS1** | -1.615E-04 | 2.521E-01 | 3.761E-02 | 4.946E-02 | 3.878E-02 | 3.350E-02 | 1.477E-02 | -2.294E-02 | 1.167E-01 | -9.897E-02 | -8.192E-11 |
| **AQ\_JAK1** | -2.134E-01 | -5.408E-02 | -6.664E-02 | -7.697E-02 | -1.225E-01 | 8.190E-02 | -2.636E-01 | -2.214E-01 | 6.675E-01 | -1.766E-02 | 3.426E-10 |
| **AQ\_JAK3** | 1.094E-02 | 4.062E-02 | -4.590E-02 | 5.483E-02 | 1.385E-01 | -5.189E-02 | 3.023E-01 | -2.936E-01 | 1.194E-01 | -4.415E-02 | -1.205E-08 |
| **AQ\_LDHA** | 6.617E-03 | -1.835E-01 | -2.766E-02 | 1.917E-01 | -1.454E-01 | -2.832E-01 | -9.182E-02 | 1.082E-01 | -1.451E-01 | 2.913E-01 | 2.612E-08 |
| **AQ\_LIF** | 1.295E-02 | -1.650E-01 | -1.004E-01 | -1.348E-02 | -6.699E-02 | 3.616E-02 | 6.462E-02 | 2.123E-01 | 1.829E-01 | -8.351E-02 | 2.572E-08 |
| **AQ\_MAPK1** | -3.192E-01 | 2.445E-01 | 2.191E-01 | 4.719E-02 | -7.981E-02 | 2.640E-01 | 1.434E-01 | 2.556E-01 | 7.425E-03 | 9.028E-03 | 4.818E-08 |
| **AQ\_NFE2L2** | -1.035E-01 | -2.182E-01 | -3.917E-01 | -1.082E-02 | -9.585E-02 | -6.943E-02 | -1.536E-01 | -1.203E-01 | -3.066E-01 | 3.373E-02 | -1.589E-08 |
| **AQ\_NFKB1** | 3.467E-02 | 1.536E-01 | -4.675E-02 | 1.936E-01 | 1.002E-01 | -2.833E-02 | 6.539E-02 | 9.654E-02 | 2.338E-02 | -7.557E-02 | 6.327E-09 |
| **AQ\_NLRP3** | -1.095E-01 | 2.106E-01 | -1.480E-01 | 5.914E-03 | 3.608E-01 | -3.481E-01 | -2.064E-02 | 5.504E-02 | 3.406E-02 | -3.163E-01 | 5.470E-09 |
| **AQ\_NOS2** | -8.454E-02 | -1.180E-01 | -7.146E-02 | -9.097E-02 | -9.093E-02 | 1.130E-01 | 6.427E-02 | -5.361E-02 | -4.474E-03 | -5.536E-02 | -3.501E-09 |
| **AQ\_NOX5** | 7.528E-04 | -2.123E-03 | -6.882E-04 | 2.403E-04 | 1.069E-02 | -1.271E-03 | -7.925E-04 | -1.660E-03 | 1.123E-03 | 8.413E-04 | 7.071E-01 |
| **AQ\_PDCD1** | -1.268E-01 | 4.578E-01 | -2.192E-01 | -1.340E-01 | -2.328E-01 | -1.168E-01 | -8.759E-02 | 1.566E-01 | 4.865E-02 | -8.718E-03 | -5.036E-09 |
| **AQ\_PPARG** | 2.665E-02 | -5.510E-02 | -9.321E-02 | 1.934E-01 | -7.546E-02 | -1.790E-01 | 1.046E-01 | 1.466E-01 | 1.805E-01 | 2.586E-01 | 2.336E-08 |
| **AQ\_PTAFR** | 2.101E-01 | 2.481E-01 | 7.822E-02 | 2.123E-01 | -2.336E-02 | 1.073E-01 | -2.581E-01 | -2.588E-01 | 1.340E-02 | 4.309E-01 | -1.639E-08 |
| **AQ\_PTGS2** | -2.217E-01 | -9.393E-02 | 7.819E-03 | -1.105E-01 | 7.481E-02 | 5.323E-02 | 1.615E-01 | -1.208E-02 | 6.105E-02 | 1.055E-01 | 4.660E-09 |
| **AQ\_SLC2A4** | 1.495E-02 | -1.469E-01 | -2.035E-01 | 2.195E-01 | 1.495E-01 | 1.355E-01 | -1.054E-01 | 3.126E-02 | -5.028E-02 | -4.460E-02 | 2.034E-08 |
| **AQ\_SOD1** | 1.521E-01 | 1.413E-02 | 1.571E-01 | -2.769E-02 | 1.626E-02 | -8.965E-02 | -5.205E-02 | 3.712E-03 | 9.481E-02 | -1.019E-01 | -1.302E-09 |
| **AQ\_SREBF1** | 1.029E-01 | -1.251E-01 | -2.317E-01 | -3.724E-02 | -2.275E-01 | 7.360E-02 | -3.908E-02 | 1.756E-01 | -1.435E-01 | -3.752E-01 | 1.810E-09 |
| **AQ\_STAT3** | 1.823E-01 | 1.751E-01 | -4.945E-02 | 2.357E-01 | 1.056E-01 | 1.776E-01 | 3.912E-02 | 3.480E-01 | -2.104E-04 | 6.747E-02 | 4.010E-09 |
| **AQ\_TGFB1** | -2.887E-01 | -1.513E-02 | -7.451E-02 | -3.986E-01 | 1.104E-01 | -1.401E-01 | 5.054E-02 | -1.366E-01 | -1.002E-01 | 1.854E-01 | -3.201E-08 |
| **AQ\_TLR3** | -4.846E-02 | 7.303E-02 | 2.994E-02 | 6.707E-02 | 1.106E-01 | 1.386E-01 | -2.031E-01 | -9.170E-02 | -1.064E-01 | -1.580E-01 | -3.952E-08 |
| **AQ\_TLR4** | 1.779E-01 | -1.433E-01 | 7.302E-02 | -1.506E-01 | 3.821E-03 | 2.300E-03 | -9.420E-02 | 3.263E-01 | 1.900E-01 | 6.903E-02 | 1.813E-08 |
| **AQ\_TNF** | -1.523E-01 | -1.674E-01 | 3.549E-01 | -1.449E-01 | -2.119E-01 | -6.488E-02 | -2.476E-01 | 1.596E-01 | -3.694E-02 | 2.151E-03 | 2.835E-08 |
| **AQ\_GPD2** | 1.084E-01 | 5.561E-02 | 1.066E-01 | 1.245E-01 | 1.347E-01 | 7.916E-02 | 1.344E-01 | -1.702E-01 | -6.835E-03 | -8.437E-02 | -2.095E-08 |
| **AQ\_GPX1** | -3.494E-02 | 3.844E-02 | 6.405E-02 | -1.206E-01 | 5.326E-02 | -3.141E-02 | 1.118E-01 | 4.992E-03 | 3.236E-02 | 5.670E-02 | 7.102E-10 |
| **AQ\_IFNG** | 1.398E-02 | -5.192E-02 | -4.740E-02 | 2.401E-01 | -2.022E-01 | 4.688E-03 | -1.121E-01 | 6.819E-02 | 6.923E-02 | -3.029E-02 | 3.280E-09 |

Fuente: Elaboración propia; PCA1: componentes principales 1, 2,3…n; Las cifras se muestran en notación científica con tres decimales.

**Tabla PCA componentes y R2**

|  |  |
| --- | --- |
| **Componente** | **R2** |
| PC1 | 0.5164 |
| PC2 | 0.06465 |
| PC3 | 0.05264 |
| PC4 | 0.04203 |
| PC5 | 0.03689 |
| PC6 | 0.03469 |
| PC7 | 0.0304 |
| PC8 | 0.02635 |
| PC9 | 0.02381 |
| PC10 | 0.01961 |
| PC11 | 0.01811 |
| PC12 | 0.0174 |
| PC13 | 0.01547 |
| PC14 | 0.01271 |
| PC15 | 0.0121 |
| PC16 | 0.00925 |
| PC17 | 0.00898 |
| PC18 | 0.00762 |
| PC19 | 0.00692 |
| PC20 | 0.00639 |
| PC21 | 0.00574 |
| PC22 | 0.00421 |
| PC23 | 0.00383 |
| PC24 | 0.00337 |
| PC25 | 0.00299 |
| PC26 | 0.00245 |
| PC27 | 0.0022 |
| PC28 | 0.00195 |
| PC29 | 0.0017 |
| PC30 | 0.00141 |
| PC31 | 0.0012 |
| PC32 | 0.00105 |
| PC33 | 0.00093 |
| PC34 | 0.00084 |
| PC35 | 0.00066 |
| PC36 | 0.00063 |
| PC37 | 0.00054 |
| PC38 | 0.00042 |
| PC39 | 0.00036 |
| PC40 | 0.00032 |
| PC41 | 0.00022 |
| PC42 | 0.0002 |
| PC43 | 0.00012 |
| PC44 | 0.00008 |
| PC45 | 0.00006 |
| PC46 | 0.00004 |
| PC47 | 0 |

Fuente: Elaboración propia; R2: Varianza explicada

**Interpretación de la tabla PCA carga**

PC1 (Primer componente): Si observamos las cargas de los genes, por ejemplo, AQ\_ADIPOQ tiene una carga de -3.573E-02 en PC1. Esto sugiere que la contribución de AQ\_ADIPOQ a la primera componente es pequeña. En cambio, AQ\_CCL2 tiene una carga de 1.084E-01, lo que indica que AQ\_CCL2 tiene una mayor contribución a la PC1.

PC2 (Segunda componente): En PC2, AQ\_ARG1 tiene una carga de 3.624E-01, lo que indica que este gen tiene una fuerte influencia en la variabilidad explicada por la segunda componente.

PC3 y más allá: A medida que nos movemos hacia las componentes posteriores, las cargas de los genes pueden cambiar, lo que implica que esos genes podrían ser más relevantes para la variabilidad explicada en esas componentes. Por ejemplo, AQ\_SLC2A4 tiene una carga bastante alta en PC3 (3.428E-01), lo que sugiere que este gen tiene una influencia destacada en esa componente.

**Interpretación de la tabla PCA componente y R2**

Esta tabla muestra la varianza explicada (denotada como R2R^2R2) por cada componente principal (PC) de un análisis de componentes principales (PCA). El valor de R2R^2R2 indica qué porcentaje de la variabilidad total de los datos es capturado por cada componente.

PC1 (Componente Principal 1): La primera componente principal es la que captura la mayor parte de la varianza en los datos, con un valor de R2=0.5164R^2 = 0.5164R2=0.5164. Esto significa que el primer componente explica aproximadamente el 51.64% de la variabilidad total de los datos.

PC2 a PC12: Los valores de R2R^2R2 para estos componentes son mucho más bajos.

Por ejemplo: PC2 explica el 6.47% de la varianza y el PC3 captura el 5.26%.

Y así sucesivamente, con la varianza explicada disminuyendo de manera progresiva para cada componente posterior.

Componentes con R2R^2R2 más bajos: A medida que avanzamos en los componentes (PC13, PC14, etc.), la varianza explicada se reduce considerablemente. De hecho, los componentes más pequeños (por ejemplo, PC45 y PC46) tienen un valor de R2R^2R2 cercano a 0, indicando que no contribuyen prácticamente a la variabilidad de los datos.