chapter

JPD

2025-07-04

Performance metrics for single-gene classification models

| Gene | AUROC | AUPRC | Accuracy | F1 | Precision | Recall |
| --- | --- | --- | --- | --- | --- | --- |
| WDR41 | 0.640 | 0.650 | 0.556 | 0.711 | 0.560 | 0.971 |
| KCNK5 | 0.540 | 0.560 | 0.524 | 0.686 | 0.545 | 0.924 |
| GATA3 | 0.590 | 0.580 | 0.620 | 0.667 | 0.657 | 0.676 |
| DDX43 | 0.550 | 0.570 | 0.513 | 0.629 | 0.550 | 0.733 |
| DTWD1 | 0.650 | 0.640 | 0.535 | 0.679 | 0.554 | 0.876 |
| XIST | 0.594 | 0.708 | 0.540 | 0.688 | 0.556 | 0.905 |
| SAA2-SAA4 | 0.557 | 0.621 | 0.556 | 0.709 | 0.561 | 0.962 |
| ERC2 | 0.550 | 0.560 | 0.610 | 0.709 | 0.610 | 0.848 |
| ENO3 | 0.610 | 0.590 | 0.567 | 0.722 | 0.565 | 1.000 |
| SLC9A7 | 0.710 | 0.710 | 0.594 | 0.689 | 0.604 | 0.800 |
| CTH | 0.590 | 0.590 | 0.604 | 0.711 | 0.603 | 0.867 |
| PDK3 | 0.570 | 0.600 | 0.567 | 0.675 | 0.583 | 0.800 |
| GSTT2 | 0.643 | 0.664 | 0.642 | 0.735 | 0.628 | 0.886 |
| RPARP-AS1 | 0.528 | 0.619 | 0.540 | 0.699 | 0.552 | 0.952 |
| ZNF839 | 0.550 | 0.590 | 0.556 | 0.711 | 0.560 | 0.971 |
| FABP4 | 0.520 | 0.530 | 0.535 | 0.695 | 0.550 | 0.943 |
| RAP1GAP2 | 0.780 | 0.810 | 0.690 | 0.760 | 0.700 | 0.940 |
| HAPLN1 | 0.606 | 0.676 | 0.615 | 0.692 | 0.628 | 0.771 |