Fig.S1.1 Results of ROC analysis of 12 CRGS in KIRC.
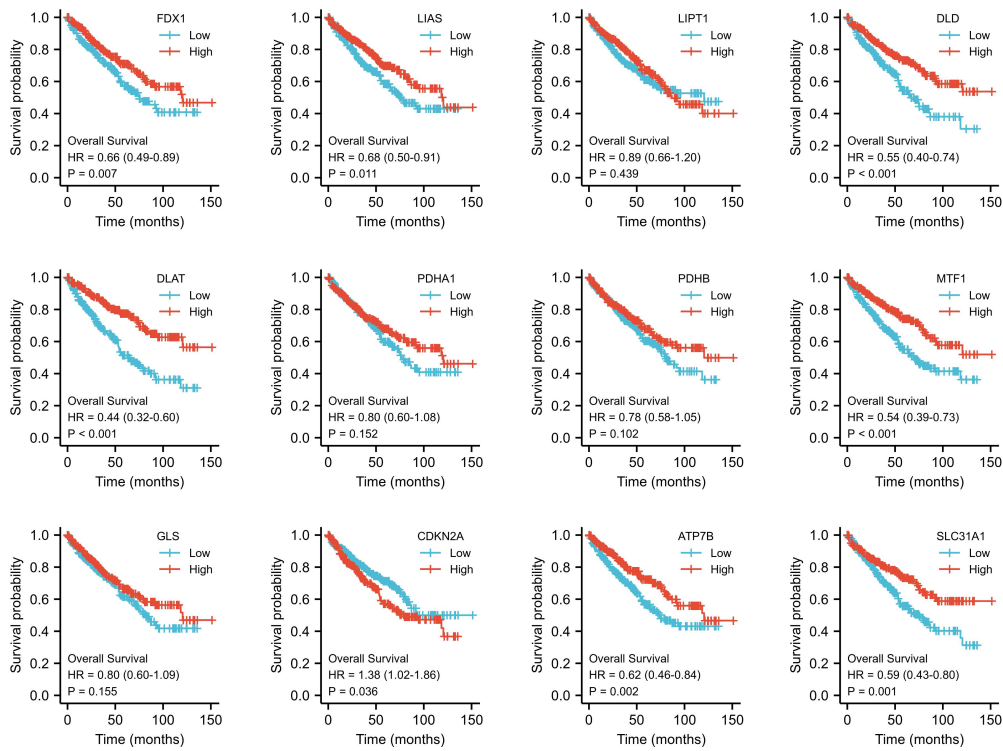


Fig.S1.2 Results of KM analysis of 12 CRGS in KIRC.

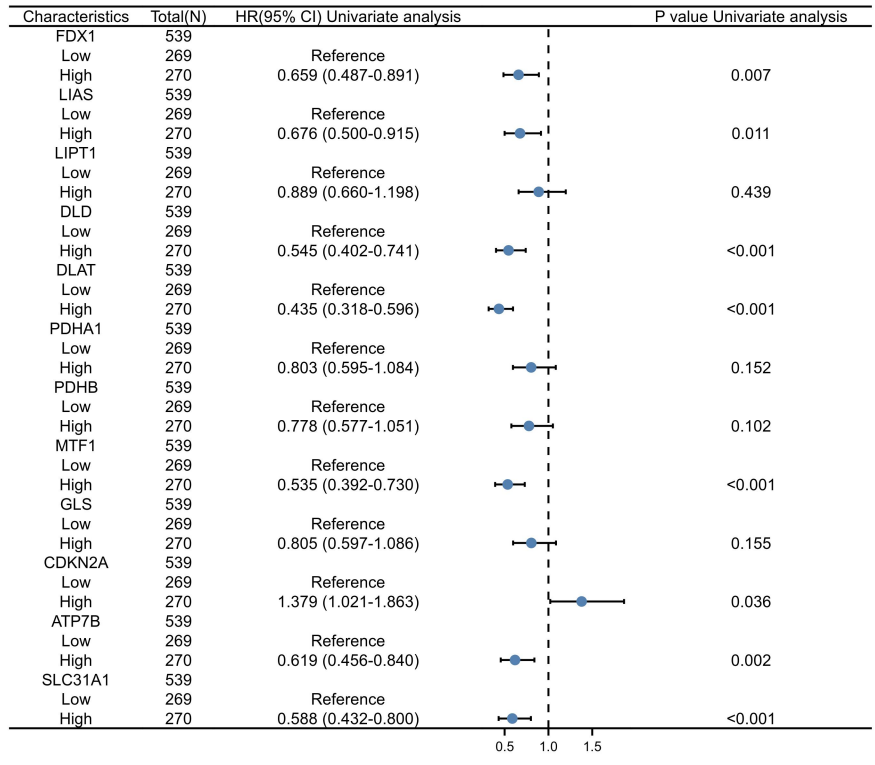| Characteristics | Total(N) | HR(95% CI) Univariate analysis | | P value Univariate analysis |
|---|---|---|---|---|
| FDX1 | 539 | | | |
| Low | 269 | Reference | | |
| High | 270 | 0.659 (0.487-0.891) | | 0.007 |
| LIAS | 539 | | | |
| Low | 269 | Reference | | |
| High | 270 | 0.676 (0.500-0.915) | | 0.011 |
| LIPT1 | 539 | | | |
| Low | 269 | Reference | | |
| High | 270 | 0.889 (0.660-1.198) | | 0.439 |
| DLD | 539 | | | |
| Low | 269 | Reference | | |
| High | 270 | 0.545 (0.402-0.741) | | <0.001 |
| DLAT | 539 | | | |
| Low | 269 | Reference | | |
| High | 270 | 0.435 (0.318-0.596) | | <0.001 |
| PDHA1 | 539 | | | |
| Low | 269 | Reference | | |
| High | 270 | 0.803 (0.595-1.084) | | 0.152 |
| PDHB | 539 | | | |
| Low | 269 | Reference | | |
| High | 270 | 0.778 (0.577-1.051) | | 0.102 |
| MTF1 | 539 | | | |
| Low | 269 | Reference | | |
| High | 270 | 0.535 (0.392-0.730) | | <0.001 |
| GLS | 539 | | | |
| Low | 269 | Reference | | |
| High | 270 | 0.805 (0.597-1.086) | | 0.155 |
| CDKN2A | 539 | | | |
| Low | 269 | Reference | | |
| High | 270 | 1.379 (1.021-1.863) | | 0.036 |
| ATP7B | 539 | | | |
| Low | 269 | Reference | | |
| High | 270 | 0.619 (0.456-0.840) | | 0.002 |
| SLC31A1 | 539 | | | |
| Low | 269 | Reference | | |
| High | 270 | 0.588 (0.432-0.800) | | <0.001 |

0.5    1.0    1.5

Fig.S1.3 Results of univariate Cox regression analysis of 12 CRGS in KIRC.