

SUPPLEMENTARY TABLES

**Supplementary Table 1.
Cellular response to
oxidative stress gene
set enriched by black
module genes.**

| Gene |
|-------------|
| AIFM2 |
| AKR1C3 |
| AKT1 |
| APEX1 |
| ATF4 |
| ATG7 |
| CBX8 |
| CCNA2 |
| CDK1 |
| ECT2 |
| EZH2 |
| FANCD2 |
| G6PD |
| GPX1 |
| MAPK3 |
| MELK |
| MPV17 |
| MYB |
| NME2 |
| NONO |
| NUDT2 |
| P4HB |
| PARP1 |
| PCNA |
| PLA2R1 |
| PRDX1 |
| PRDX5 |
| PRKCD |
| PSAP |
| PYCR1 |
| PYCR2 |
| RACK1 |
| ROMO1 |
| RPS3 |
| SFPQ |
| SRC |
| STK25 |
| STX4 |
| TLDC2 |
| TRAF2 |
| ZNF580 |

**Supplementary Table 2.
H2AZ1-associated HCC
prognostic index gene
set.**

| Gene |
|-------------|
| AL031985.3 |
| BAG2 |
| BRIX1 |
| CAD |
| CCNB1 |
| CCT4 |
| CDK1 |
| CEBPZOS |
| CIZ1 |
| CPSF3 |
| CSE1L |
| DDX55 |
| DHX34 |
| FARSB |
| G6PD |
| GNL2 |
| GTPBP4 |
| GTSE1 |
| ISG20L2 |
| KDM1A |
| KIAA1841 |
| KIF20A |
| KPNA2 |
| MARCKS |
| MAST2 |
| MEX3A |
| MRPL9 |
| NAP1L1 |
| NDC80 |
| NUP43 |
| PAK1IP1 |
| PDSS1 |
| PRPF3 |
| PSMD1 |
| PYGO2 |
| RAD54B |
| RBM17 |
| RBM28 |
| SLC39A1 |
| SMYD5 |
| SPATS2 |
| SRSF2 |
| SSB |
| TCOF1 |
| TTK |

UBE2E1
WDR75
ZFP69B
ZNF207
H2AFZ

Supplementary Table 3. H2AZ1-based index model equation.

$$\begin{aligned} & \text{H2AZ1-based index =} \\ & (0.00207)*\text{AL031985.3}+(0.00033)*\text{BAG2}+(0.00009)*\text{BRX1}+(0.00015)*\text{CAD}+ \\ & (-0.00014)*\text{CCNB1}+(0)*\text{CCT4}+(-0.00026)*\text{CDK1}+(0.00056)*\text{CEBPZOS}+(-0.00022)*\text{CIZ1}+ \\ & \quad (-0.00017)*\text{CPSF3}+(0.00004)*\text{CSE1L}+(0.00065)*\text{DDX55}+ \\ & \quad (-0.00006)*\text{DHX34}+(0.00003)*\text{FARSB}+(0.00006)*\text{G6PD}+(-0.00002)*\text{GNL2}+ \\ & \quad (-0.00004)*\text{GTPBP4}+(0.00024)*\text{GTSE1}+(-0.00011)*\text{H2AFZ}+(-0.00025)*\text{ISG20L2}+ \\ & (-0.00001)*\text{KDM1A}+(0.00056)*\text{KIAA1841}+(0.00071)*\text{KIF20A}+(0.00003)*\text{KPNA2}+(0)*\text{MARCKS}+ \\ & (0.00037)*\text{MAST2}+(0.00021)*\text{MEX3A}+(0.00043)*\text{MRPL9}+(0.00001)*\text{NAP1L1}+(0.00031)* \\ & \quad \text{NDC80}+(0.00005)*\text{NUP43}+(-0.00019)*\text{PAK1IP1}+(0.00079)*\text{PDSS1}+ \\ & \quad (-0.00032)*\text{PRPF3}+(0.00011)*\text{PSMD1}+(0.00013)*\text{PYGO2}+(-0.00245)*\text{RAD54B}+ \\ & (0.00001)*\text{RBM17}+(-0.00025)*\text{RBM28}+(0.00003)*\text{SLC39A1}+(-0.00061)*\text{SMYD5}+ \\ & (-0.00001)*\text{SPATS2}+(0.00004)*\text{SRSF2}+(-0.00003)*\text{SSB}+(0.00025)*\text{TCOF1}+(0.00036)*\text{TTK}+ \\ & \quad (-0.00007)*\text{UBE2E1}+(-0.00013)*\text{WDR75}+(-0.00166)*\text{ZFP69B}+(-0.00019)*\text{ZNF207} \end{aligned}$$
