**Table 1** The 130 apoptosis-related DEGs of LUAD.

|  |  |
| --- | --- |
| **Type** | **Genes** |
| Up-regulated | PDX1**|**FGB**|**MAGEA3**|**TERT**|**POU4F1**|**RNF186**|**BCL2L10**|**RNF183**|**MAEL**|**AVP**|**MELK**|**SCG2**|**AGT**|**IL19**|**ERN2**|**GDNF**|**RET**|**FZD9**|**E2F2**|**SCRT2**|**IFNB1**|**ERO1A**|**MMP9**|**BIK**|**BRSK2**|**TNFRSF25**|**PDK1**|**ATP2A1**|**MLLT11**|**GGCT**|**PMAIP1**|**FIGNL1**|**DEPTOR**|**E2F1**|**BRCA1**|**CHEK2**|**MAPK8IP2**|**SCN2A**|**NOX1**|**CD24**|**BCL2L14**|**FGG**|**CD27**|**SFRP2**|**TRIB3**|**EPO**|**KRT8**|**IFNG**|**GATA4**|**CD70**|**NFATC4**|**ITM2C**|**ENO1**|**MIF**|**BRCA2**|**POLB**|**IKBKE**|**TRAP1**|**HYOU1**|**CTH**|**KRT18**|**PRKDC**|**BNIP3**|**ELL3**|**ASAH2**|**PPIF**|**DDIT4**|**P4HB**|**PDCD6**|**INHBB**|**GCLM**|**TRAF2**|**SGPL1**|**PERP**|**PIDD1**|**SSTR3**|**BCL2L12**|**DAP**|**TMEM117**|**ITGAV**|**PARP1**|**SFN**|**BMF**|**MSH2**|**SLC9A3R1**|**CHAC1**|**NLE1**|**PDIA3**|**PDCD5**|**DAP3**|**DNAJC10**|**NOL3**|**HMGB2**|**DYRK2**|** |
| Down-regulated | MIR222**|**BCL2A1**|**TNFSF12**|**CXCL12**|**PTGIS**|**PPM1F**|**HYAL2**|**CASP5**|**EYA4**|**BTK**|**MIR221**|**TYROBP**|**PAK5**|**TLR4**|**CX3CR1**|**SRPX**|**HMOX1**|**ITPRIP**|**ZNF385B**|**GATA1**|**IL20RA**|**ATF3**|**PPP1R15A**|**TIMP3**|**DAPK2**|**LRRK2**|**PF4**|**IL33**|**GPER1**|**BDNF**|**AGTR2**|**CASP12**|**DCC**|**FGF10**|**CAV1**|**RTKN2**|** |

DEGs, differentially expressed genes; LUAD, lung adenocarcinoma