Fig. S1 IGFBP3 in stomach cancer by The Human Protein Atlas database. Results concluded that IGFBP3 is not prognostic in stomach cancer.

Fig. S2 Heatmap of DNA methylation expression levels of the IGFBP3 gene in ESCA and STAD by MethSurv platform. cg00419512, cg05867388, cg06789764 of IGFBP3 displays the highest level of DNA methylation in ESCA (A). cg00419512, cg05867388, cg06789764 of IGFBP3 displays the highest level of DNA methylation in STAD (B). ESCA, esophageal carcinoma; STAD, Stomach adenocarcinoma.
Table S1 Prognostic Value of Single CpG of the IGFBP3 gene in ESCA by MethSurv platform

| Gene-CpG                                      | Cancer  | HR    | LR_test_pvalue |
|-----------------------------------------------|---------|-------|----------------|
| IGFBP3-TSS1500-S_Shore-cg04690927            | ESCA    | 1.921 | 0.019*         |
| IGFBP3-TSS1500-S_Shore-cg24381682            | ESCA    | 1.853 | 0.024*         |
| IGFBP3-TSS1500-Island-cg08381744             | ESCA    | 1.707 | 0.043*         |
| IGFBP3-TSS1500-Island-cg23193639             | ESCA    | 1.598 | 0.043*         |
| IGFBP3-TSS1500-S_Shore-cg22083798            | ESCA    | 1.581 | 0.091          |
| IGFBP3-TSS1500-S_Shore-cg02120774            | ESCA    | 1.538 | 0.120          |
| IGFBP3-TSS1500-Island-cg21268650             | ESCA    | 1.533 | 0.109          |
| IGFBP3-TSS1500-Island-cg07910986             | ESCA    | 1.449 | 0.106          |
| IGFBP3-TSS1500-Island-cg09619271             | ESCA    | 1.447 | 0.108          |
| IGFBP3-TSS1500-S_Shore-cg26434048            | ESCA    | 1.444 | 0.170          |
| IGFBP3-1stExon-5'UTR-Island-cg15898840       | ESCA    | 1.435 | 0.120          |
| IGFBP3-TSS1500-S_Shore-cg23455440            | ESCA    | 1.417 | 0.202          |
| IGFBP3-TSS1500-S_Shore-cg12244052            | ESCA    | 1.416 | 0.187          |
| IGFBP3-TSS1500-Island-cg04796162             | ESCA    | 1.402 | 0.143          |
| IGFBP3-TSS1500-Island-cg10677697             | ESCA    | 1.396 | 0.146          |
| IGFBP3-TSS1500-S_Shore-cg22800581            | ESCA    | 1.396 | 0.198          |
| IGFBP3-TSS1500-S_Shore-cg05083496            | ESCA    | 1.324 | 0.296          |
| IGFBP3-1stExon-Island-cg06713098              | ESCA    | 1.308 | 0.269          |
| IGFBP3-TSS1500-S_Shore-cg03776080            | ESCA    | 1.304 | 0.317          |
| IGFBP3-TSS1500-S_Shore-cg10094651            | ESCA    | 1.271 | 0.294          |
| IGFBP3-Body-N_Shelf-cg20351904               | ESCA    | 1.234 | 0.358          |
| IGFBP3-TSS1500-S_Shore-cg24772240            | ESCA    | 1.209 | 0.475          |
| IGFBP3-Body-Island-cg04727332                | ESCA    | 1.204 | 0.423          |
| IGFBP3-TSS1500-S_Shore-cg15208757            | ESCA    | 0.902 | 0.654          |
| IGFBP3-TSS1500-S_Shore-cg24942272            | ESCA    | 0.874 | 0.609          |
| IGFBP3-3'UTR-Open_Sea-cg05867388             | ESCA    | 0.855 | 0.540          |
| IGFBP3-Body-N_Shore-cg16875425               | ESCA    | 0.852 | 0.537          |
| IGFBP3-TSS1500-S_Shore-cg16460681            | ESCA    | 0.843 | 0.540          |
| IGFBP3-3'UTR-Open_Sea-cg06789764             | ESCA    | 0.76  | 0.276          |
| IGFBP3-TSS1500-S_Shore-cg16447589            | ESCA    | 0.722 | 0.270          |
| IGFBP3-TSS1500-S_Shore-cg24901098            | ESCA    | 0.72  | 0.159          |
| IGFBP3-TSS1500-S_Shore-cg08541297            | ESCA    | 0.715 | 0.148          |
| IGFBP3-Body-N_Shelf-cg13977557               | ESCA    | 0.714 | 0.190          |
| IGFBP3-TSS1500-S_Shore-cg22403266            | ESCA    | 0.69  | 0.109          |
| IGFBP3-TSS1500-S_Shore-cg20850023            | ESCA    | 0.674 | 0.148          |
| IGFBP3-TSS1500-S_Shore-cg11753867            | ESCA    | 0.666 | 0.082          |
| IGFBP3-3'UTR-Open_Sea-cg00419512             | ESCA    | 0.621 | 0.039*         |
| IGFBP3-Body-N_Shore-cg12902183               | ESCA    | 0.583 | 0.038*         |

ESCA, esophageal carcinoma. * indicates significant difference
| Gene-CpG                                      | Cancer | HR  | LR_test_pvalue |
|----------------------------------------------|--------|-----|----------------|
| IGFBP3-Body-N_Shelf-cg13977557               | STAD   | 1.245 | 0.181        |
| IGFBP3-Body-N_Shelf-cg20351904               | STAD   | 0.862 | 0.365        |
| IGFBP3-3'UTR-Open_Sea-cg05867388             | STAD   | 0.784 | 0.189        |
| IGFBP3-3'UTR-Open_Sea-cg06789764             | STAD   | 0.783 | 0.210        |
| IGFBP3-TSS1500-S_Shore-cg26434048            | STAD   | 0.778 | 0.124        |
| IGFBP3-TSS1500-S_Shore-cg24772240            | STAD   | 0.774 | 0.171        |
| IGFBP3-TSS1500-S_Shore-cg04690927            | STAD   | 0.755 | 0.087        |
| IGFBP3-TSS1500-S_Shore-cg22800581            | STAD   | 0.75  | 0.139        |
| IGFBP3-TSS1500-S_Shore-cg22083798            | STAD   | 0.738 | 0.070        |
| IGFBP3-TSS1500-S_Shore-cg23455440            | STAD   | 0.738 | 0.101        |
| IGFBP3-TSS1500-Island-cg08831744             | STAD   | 0.731 | 0.065        |
| IGFBP3-TSS1500-S_Shore-cg03776080            | STAD   | 0.728 | 0.053        |
| IGFBP3-TSS1500-Island-cg23193639             | STAD   | 0.726 | 0.074        |
| IGFBP3-TSS1500-S_Shore-cg24381682            | STAD   | 0.723 | 0.048        |
| IGFBP3-TSS1500-S_Shore-cg19536059            | STAD   | 0.718 | 0.091        |
| IGFBP3-TSS1500-S_Shore-cg08541297            | STAD   | 0.715 | 0.054        |
| IGFBP3-TSS1500-Island-cg07910986             | STAD   | 0.714 | 0.040        |
| IGFBP3-Body-N_Shore-cg12902183               | STAD   | 0.711 | 0.063        |
| IGFBP3-TSS1500-S_Shore-cg02120774            | STAD   | 0.705 | 0.033        |
| IGFBP3-TSS1500-S_Shore-cg16447589            | STAD   | 0.697 | 0.053        |
| IGFBP3-TSS1500-Island-cg09619271             | STAD   | 0.683 | 0.020        |
| IGFBP3-TSS1500-S_Shore-cg15208757            | STAD   | 0.681 | 0.047        |
| IGFBP3-TSS1500-S_Shore-cg05083496            | STAD   | 0.68  | 0.048        |
| IGFBP3-TSS1500-S_Shore-cg12244052            | STAD   | 0.673 | 0.042        |
| IGFBP3-TSS1500-Island-cg10677697             | STAD   | 0.67  | 0.036        |
| IGFBP3-TSS1500-S_Shore-cg11753867            | STAD   | 0.668 | 0.040        |
| IGFBP3-TSS1500-Island-cg04796162             | STAD   | 0.664 | 0.013        |
| IGFBP3-3'UTR-Open_Sea-cg00419512             | STAD   | 0.659 | 0.042        |
| IGFBP3-1stExon;5'UTR-Island-cg15898840       | STAD   | 0.659 | 0.036        |
| IGFBP3-Body-N_Shore-cg16875425               | STAD   | 0.659 | 0.038        |
| IGFBP3-TSS1500-Island-cg21268650             | STAD   | 0.648 | 0.027        |
| IGFBP3-1stExon-Island-cg06713098             | STAD   | 0.633 | 0.021        |
| IGFBP3-TSS1500-S_Shore-cg20850023            | STAD   | 0.617 | 0.015        |
| IGFBP3-TSS1500-S_Shore-cg22403266            | STAD   | 0.608 | 0.014        |
| IGFBP3-Body-Island-cg04727332               | STAD   | 0.603 | 0.002        |
| IGFBP3-TSS1500-S_Shore-cg10094651            | STAD   | 0.602 | 0.010        |
| IGFBP3-TSS1500-S_Shore-cg24942272            | STAD   | 0.596 | 0.009        |
| IGFBP3-TSS1500-S_Shore-cg16460681            | STAD   | 0.595 | 0.009        |

STAD, Stomach adenocarcinoma. * indicates significant difference