

**Table S6. TCF7L2 binding motifs**

|                              | W1            | percentage | W2              | percentage |
|------------------------------|---------------|------------|-----------------|------------|
| <b>HCT116</b>                |               |            |                 |            |
| all sites (30,266)           | <b>CTTTGA</b> | 43         | <b>CCTTTGAT</b> | 20         |
| cell-specific sites (11,012) |               | 37         |                 | 16         |
| <b>HepG2</b>                 |               |            |                 |            |
| all sites (27,912)           | <b>CTTTGA</b> | 54         | <b>CTTTGATC</b> | 28         |
| cell-specific sites (14,812) |               | 54         |                 | 26         |
| <b>HEK293</b>                |               |            |                 |            |
| all sites (24,457)           | <b>CTTTGA</b> | 59         | <b>CTTTGATC</b> | 28         |
| cell-specific sites (12,847) |               | 56         |                 | 26         |
| <b>PANC1</b>                 |               |            |                 |            |
| all sites (31,744)           | <b>CTTTGA</b> | 49         | <b>CTTTGATC</b> | 15         |
| cell-specific sites (10,203) |               | 50         |                 | 16         |
| <b>MCF7</b>                  |               |            |                 |            |
| all sites (27,721)           | <b>CTTTGA</b> | 50         | <b>CTTTGATC</b> | 7          |
| cell-specific sites (14,096) |               | 46         |                 | 5          |
| <b>HeLa</b>                  |               |            |                 |            |
| all sites (14,755)           | <b>CTTTGA</b> | 54         | <b>CTTTGATC</b> | 30         |
| cell-specific sites (4,073)  |               | 48         |                 | 25         |