

## Supplementary

**Table S1** List of glycosylation- and mitophagy-related differentially expressed genes identified in HNSCC

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Gene symbol

*MAPT*

*PPARG*

*PIP*

*PLP1*

*BIRC5*

*TGFBR3*

*SERPINH1*

*COL1A1*

*AR*

*SLC6A1*

*CLU*

*ITGA5*

*FUT3*

*BST2*

*ENO2*

*FN1*

*IL24*

*EPHB2*

*MMP13*

*IGF2BP3*

*TTN*

*MMP3*

*NEFL*

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**Table S2** Copy number variation status of selected genes in the HNSCC cohort

| Gene            | Altered | Unaltered | Altered_Freq | Unaltered_Freq |
|-----------------|---------|-----------|--------------|----------------|
| <i>AR</i>       | 24      | 467       | 4.88%        | 94.92%         |
| <i>BIRC5</i>    | 43      | 447       | 8.74%        | 90.85%         |
| <i>BST2</i>     | 33      | 459       | 6.71%        | 93.29%         |
| <i>CLU</i>      | 162     | 330       | 32.93%       | 67.07%         |
| <i>COL1A1</i>   | 19      | 473       | 3.86%        | 96.14%         |
| <i>ENO2</i>     | 85      | 407       | 17.28%       | 82.72%         |
| <i>EPHB2</i>    | 45      | 443       | 9.15%        | 90.04%         |
| <i>FN1</i>      | 70      | 421       | 14.23%       | 85.57%         |
| <i>FUT3</i>     | 58      | 433       | 11.79%       | 88.01%         |
| <i>IGF2BP3</i>  | 82      | 405       | 16.67%       | 82.32%         |
| <i>IL24</i>     | 50      | 442       | 10.16%       | 89.84%         |
| <i>ITGA5</i>    | 20      | 472       | 4.07%        | 95.93%         |
| <i>MAPT</i>     | 17      | 471       | 3.46%        | 95.73%         |
| <i>MMP13</i>    | 149     | 341       | 30.28%       | 69.31%         |
| <i>MMP3</i>     | 149     | 341       | 30.28%       | 69.31%         |
| <i>NEFL</i>     | 163     | 329       | 33.13%       | 66.87%         |
| <i>PIP</i>      | 76      | 416       | 15.45%       | 84.55%         |
| <i>PLP1</i>     | 24      | 468       | 4.88%        | 95.12%         |
| <i>PPARG</i>    | 198     | 292       | 40.24%       | 59.35%         |
| <i>SERPINH1</i> | 130     | 362       | 26.42%       | 73.58%         |
| <i>SLC6A1</i>   | 197     | 295       | 40.04%       | 59.96%         |
| <i>TGFBR3</i>   | 39      | 447       | 7.93%        | 90.85%         |
| <i>TTN</i>      | 44      | 439       | 8.94%        | 89.23%         |