**Supplementary Table 1** The characteristic of 100 cases of Kazakh patients with esophageal squamous cell carcinoma (ESCC).

|  |  |  |
| --- | --- | --- |
|  | **Variable** | **Cases (N)** |
| Age (y) | ≤ Median (58y) | 52 |
| > Median | 48 |
| Gender | Male | 71 |
| Female | 29 |
| Tumor location | Upper | 1 |
| Middle | 74 |
| Lower | 25 |
| Histologic grade | Well | 28 |
| Moderate | 49 |
| Poor | 23 |
| Depth of invasion | T1 | 4 |
| T2 | 33 |
| T3 | 43 |
| T4 | 20 |
| Venous invasion | Negative | 93 |
| Positive | 7 |
| Lymphatic invasion | Negative | 29 |
| Positive | 71 |
| [Nodal](http://dict.cnki.net/hot_eng/dict_source.aspx?searchword=nodal) status | No lymph node metastasis | 47 |
| Lymph node metastasis | 53 |
| TNM stage | I-II | 61 |
| III-IV | 39 |

**Supplementary Table 2** Primer sequences of target genes.

|  |  |  |
| --- | --- | --- |
| **Target** | **Sense Primer** | **Antisense Primer** |
| VEGF-A | 5′-ACGAACGTACTTGCAGATGTG-3′ | 5′-TTCTGTCGATGGTGATGGTGT-3′ |
| VEGF-B | 5′- GAAAGTGGTGTCATGGATAG3-3′ | 5′- ATGAGCTCCACAGTCAAG3-3′ |
| VEGF-C | 5′-CAGCAAGACGTTGTTTGAAATTACA-3′ | 5′-GTGATTGGCAAAACTGATTGTGA-3′ |
| MMP-2 | 5′-CCACTGCCTTCGATACAC-3′ | 5′-GAGCCACTCTCTGGAATCTTAAA-3′ |
| MMP-9 | 5′- GTTCCCGGAGTGAGTTGA -3′ | 5′- TTTACATGGCACTGCCAAAGC -3′ |