

**Table S1** Virus infection sequence

| Lentivirus       | Sequence                             |
|------------------|--------------------------------------|
| <i>SH-CKS2-1</i> | 5'-GACAAGTACTTCGACACAC-3'            |
| <i>SH-CKS2-2</i> | 5'-GAGTCTAGGCTGGGTTCATTA-3'          |
| <i>OV-CKS2</i>   | 5'-GGGGTACCCCCCAGCCGACGACGA AGCCG-3' |

**Table S2** The sequences of primers for the detection of gene expression

| Gene name   | Forward primer                     | Reverse primer                  |
|-------------|------------------------------------|---------------------------------|
| <i>MICA</i> | 5'-ATGGGGCTGGGCCCCGGTCTTC-3'       | 5'-AGCAGAAACATGGAATGTCTGCCAA-3' |
| <i>MICB</i> | 5'-ATGGGGCTGGGCCCCGGTCCTGCTGTTT-3' | 5'-AGAAACATATGGAAAGTCTGTCCGT-3' |

**Table S3** Antibodies were used for immunohistochemistry and Multispectral fluorescent immunohistochemistry

| Name          | Company                   | Concentration |
|---------------|---------------------------|---------------|
| <i>CKS2</i>   | Abcam                     | 1:400         |
| <i>P-PI3K</i> | Cell Signaling Technology | 1:200         |
| <i>MICA</i>   | Abcam                     | 1:400         |
| NCAM1/CD56    | Proteintech               | 1:100         |