

Supplementary Table 1. Rab11-FIP2 Primers and siRNA Sequences

| | Sequences of QPCR |
|----------------------------|-------------------------------|
| Rab11-FIP2F | 5'CGGACAGCAACCCCTTTGA3' |
| Rab11-FIP2R | 5' GCGTTTCTTCCATTACCCTTAC3' |
| Sequences of siRNAs | |
| Rab11-FIP2-siRNA1-F | 5'CCGCAAGUAUGUUUGACUU DTDT 3' |
| Rab11-FIP2-siRNA1-R | 3'DTDT GGCGUUCAUACAAACUGAA 5' |
| Rab11-FIP2-siRNA2-F | 5'GCUACCUGGAUUGCUAAUU DTDT 3' |
| Rab11-FIP2-siRNA2-R | 3'DTDT CGAUGGACCUAACGAUUAA 5' |
| Rab11-FIP2-siRNA3-F | 5'GGAUGCAGUGAUUAAGGAA DTDT 3' |
| Rab11-FIP2-siRNA3-R | 3'DTDT CCUACGUCACUAAUCCUU 5' |

Supplementary Table 2. Relationship between Rab11-FIP2 expression levels and clinicopathologic features in GC patients

| Features | Total number | High expression | Low expression | λ^2 | <i>P</i> |
|---------------------|--------------|-----------------|----------------|-------------|----------|
| FIP2 | 40 | 2 | 38 | | |
| Age | | | | 0.005 | 0.942 |
| <60 | 19 | 1 | 18 | | |
| ≥60 | 21 | 1 | 20 | | |
| Gender | | | | 0.535 | 0.465 |
| Male | 29 | 1 | 28 | | |
| Female | 11 | 1 | 10 | | |
| Tumor size | | | | 0.799 | 0.372 |
| <5cm | 11 | 0 | 11 | | |
| ≥5cm | 29 | 2 | 27 | | |
| Differentiation | | | | 0.234 | 0.89 |
| Well | 2 | 0 | 2 | | |
| Moderate | 2 | 0 | 2 | | |
| Poor | 36 | 2 | 34 | | |
| Lymphoma metastasis | | | | 2.167 | 0.141 |
| N | 11 | 0 | 11 | | |
| Y | 29 | 5 | 24 | | |

Supplementary Table 3. Target Genes Screened by Microarray

| Fold change and Regulation | | | | | Annotation | |
|----------------------------|-------------------------------|------------|-------------------------------|------------|------------------|------------------|
| Cells | Fold change ([192i] vs [NSC]) | Regulation | Fold change ([215i] vs [NSC]) | Regulation | Genbank | GeneSymbol |
| BGC823 | 2.50 | up | 2.32 | up | NM_078628 | MSL3 |
| BGC823 | 4.52 | up | 2.00 | up | NM_007076 | FICD |
| BGC823 | 2.86 | up | 3.21 | up | NM_014567 | BCAR1 |
| BGC823 | 3.55 | up | 3.5 | up | NM_014904 | RAB11FIP2 |
| BGC823 | 3.94 | up | 2.13 | up | NM_174942 | GAS2L3 |
| BGC823 | 3.18 | up | 2.77 | up | NM_001402 | EEF1A1 |
| BGC823 | 1.92 | up | 1.87 | up | NM_014795 | ZEB2 |
| BGC823 | 2.31 | up | 2.10 | up | NR_002822 | MGC72080 |
| BGC823 | 2.37 | up | 2.35 | up | NR_027046 | LOC145474 |
| BGC823 | 3.48 | up | 3.18 | up | NM_003618 | MAP4K3 |

| Cells | [192m] vs [NSC] | | [215m] vs [NSC] | | | |
|--------|-----------------|-------------|-----------------|-------------|------------------|------------------|
| HFE145 | 2.44 | down | 2.41 | down | NM_001134462 | NOTO |
| HFE145 | 2.02 | down | 3.23 | down | NM_016395 | PTPLAD1 |
| HFE145 | 3.32 | down | 2.10 | down | NM_001702 | BAI1 |
| HFE145 | 3.50 | down | 2.21 | down | NM_015035 | ZHX3 |
| HFE145 | 3.08 | down | 5.07 | down | NM_014904 | RAB11FIP2 |
| HFE145 | 2.24 | down | 3.51 | down | NM_032172 | USP42 |
| HFE145 | 2.12 | down | 1.95 | down | NM_014795 | ZEB2 |
| HFE145 | 3.55 | down | 4.93 | down | NM_174942 | GAS2L3 |
| HFE145 | 2.79 | down | 7.78 | down | NR_027330 | C7orf54 |
| HFE145 | 2.59 | down | 2.74 | down | NM_001042402 | NAAA |

Abbreviations: 192:miR-192;215:miR-215;*i*:inhibitor;*m*:mimic;*NSC*:non-specific control