

S3 Table. *EGFR*, *HER2*, *HER3*, and *HER4* genetic alterations in patients with clinical benefits

| Study | No. | Tumor type | Sample | <i>EGFR</i> | | <i>HER2</i> | | <i>HER3</i> | <i>HER4</i> | Best response |
|-------|-------|------------|--------|-------------|----------|-------------|----------|-------------|-------------|---------------|
| | | | | FISH | Mutation | FISH | Mutation | FISH | FISH | |
| A | E0602 | Stomach | Plasma | - | NA | - | NA | - | - | SD |
| | | | Tumor | No | WT | Amp (29.1) | WT | No | No | |
| | E0704 | Lung | Plasma | - | WT | - | WT | - | - | SD |
| | | | Tumor | Amp (5.38) | NR | No | NR | No | NA | |
| | E0803 | Breast | Plasma | - | WT | - | WT | - | - | PR |
| | | | Tumor | No | WT | Amp (4.81) | WT | NA | NA | |
| | E0904 | Breast | Plasma | - | WT | - | WT | - | - | PR |
| | | | Tumor | NA | NA | NA | NA | NA | NA | |
| | E1002 | Rectal | Plasma | - | WT | - | WT | - | - | PR |
| | | | Tumor | No | WT | No | WT | No | No | |
| | E1005 | Breast | Plasma | - | WT | - | WT | - | - | SD |
| | | | Tumor | NA | WT | Amp (3.75) | WT | No | NA | |
| | E1007 | Breast | Plasma | - | NA | - | WT | - | - | SD |
| | | | Tumor | No | NR | Amp (8.14) | NR | No | NA | |
| | E0909 | Stomach | Plasma | - | WT | - | WT | - | - | SD |
| | | | Tumor | NA | WT | NA | WT | NA | NA | |
| | E0913 | Breast | Plasma | - | WT | - | WT | - | - | PR |
| | | | Tumor | No | WT | Amp (>100) | WT | No | No | |

| | | | | | | | | | | |
|---|-------|---------|--------|----|----|------------|----|----|----|----|
| | E0914 | Stomach | Plasma | - | WT | - | WT | - | - | SD |
| | | | Tumor | No | WT | Amp (5.81) | WT | No | No | |
| | E0918 | Breast | Plasma | - | WT | - | WT | - | - | PR |
| | | | Tumor | No | WT | Amp (6.22) | WT | NA | NA | |
| B | E0101 | Breast | Plasma | - | WT | - | WT | - | - | PR |
| | | | Tumor | NA | WT | NA | WT | NA | NA | |
| | E0205 | CBD | Plasma | - | WT | - | WT | - | - | SD |
| | | | Tumor | No | WT | No | WT | No | No | |
| | E0303 | Lung | Plasma | - | WT | - | WT | - | - | PR |
| | | | Tumor | NA | NA | NA | NA | NA | NA | |

EGFR, epidermal growth factor receptor; HER2, human epidermal growth factor receptor 2; FISH, fluorescence *in situ* hybridization; NA, not available; NR, not readable; PR, partial response; SD, stable disease; WT, wild type; Amp, amplification.