**Supplementary Table 1.** *KRAS, NRAS* and *BRAF* hotspot mutation analysis techniques and validation methods

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | Mutation | Main analisys | Validation/other analyses |
|  |  | qRT-PCR EasyPGX kitsa | qRT-PCR EasyPGX kits (DNA at the 1:10 dilution) | qRT-PCR EntroGen kits | qRT-PCR EntroGen kits(DNA at the 1:10 dilution) | Sanger sequencing |
| #1 | KRAS G12D | ✓ |  | ✓ |  |  |
| BRAF V600E | ✓b |  |  |  |  |
| #2 | KRAS G12V | ✓ |  |  |  | ✓ |
| BRAF V600E | ✓ | ✓ | ✓ | ✓ |  |
| #3 | KRAS G12C | ✓ |  | ✓ |  | ✓ |
| BRAF V600E | ✓ |  |  |  |  |
| #4 | KRAS G12C | ✓ |  | ✓ |  |  |
| NRAS A146T/V | ✓ |  | ✓ |  |  |
| #5 | KRAS G12A | ✓ |  |  |  | ✓ |
| KRAS A146V | ✓ |  |  |  | ✓ |

aperformed in duplicate using tumor DNA samples obtained from different extractions

bperformed in quadruplicate