Supplemental Table 1

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| **Patient** | **Gene1** | **Gene2** | **Assay** | **Relevance** |
| 1 | BRAF Exon9 | BRAF Exon12 | MSK-Fusion | Likely Oncogenic |
| 2 | JAZF1 Exon3 | SUZ12 Exon2 | MSK-Fusion | Likely Oncogenic, Diagnostic of LG-ESS |
| 3 | LBH Exon2  | ALK Exon18 | MSK-Fusion | Likely Oncogenic |
| 4 | YWHAE Exon5 | NUTM2B Exon2 | MSK-Fusion | Diagnostic of HG-ESS |
| 5 | YWHAE Exon5 | NUTM2B Exon2 | MSK-Fusion | Diagnostic of HG-ESS |
| 6 | ZC3H7B | BCOR | MSK-IMPACT | Likely Oncogenic, Diagnostic of HG-ESS |

Legend:

LG-ESS: Low grade endometrial stromal sarcoma; HG-ESS: High grade endometrial stromal sarcoma; IMT: Inflammatory myofibroblastic tumor