Supplemental Table 1: Predictive biomarker assessment

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| **Biomarker** | **N (%)** | **OR response vs. non-response** | **P-value** | **HR PFS**  | **P-value** |
| **Rb localization**Nuclear onlyCytoplasmic/Both | N=3732 (86%)5 (14%) | 3.24Reference | 0.444 | 0.69Reference | 0.452 |
| **Ki67**≤10>10 | N=3021 (70%)9 (30%) | Reference1.21 | 0.842 | Reference1.13 | 0.762 |
| **p16 nuclear expression**PresentAbsent | N=3019 (63%)11 (37%) | 0.50Reference | 0.453 | 0.98Reference | 0.950 |
| ***CCND1* amplification**Non-AmplifiedAmplified | N=3425 (74%)9 (26%) | Reference1.5 | 0.676 | Reference0.84 | 0.652 |