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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Supplementary Table 3. Overview of single nucleotide variants in the parental A549 cancer cells and its acquired nutlin-3 resistant derivates** | | | | | | | | | | | | | |
| **Sample** | **Location** | **Ref Allele** | **Alt Allele** | **Ref**  **Depth** | **Alt**  **Depth** | **Allelic Balance** | **Genotype** | **snp137 MAF (Freq. Alt.Allele)** | **snp137 rsID** | **Exon** | **RefSeq**  **Transcript** | **Amino**  **Acid Change** | **Codon Change** |
| A549 | chr17:7579472 | G | C | 9 | 22900 | 0.9996 | Hom.Alternative | 0.44913 | rs1042522 | 4 | NM\_000546 | P72R | cCc/cGc |
| A549.R1 | chr17:7579472 | G | C | 5 | 26023 | 0.9998 | Hom.Alternative | 0.44913 | rs1042522 | 4 | NM\_000546 | P72R | cCc/cGc |
|  | chr17:7577575 | A | T | 5304 | 10232 | 0.6586 | Heterozygous | 0 | . | 7 | NM\_000546 | Y236N | Tac/Aac |
| A549.R2 | chr17:7579472 | G | C | 5 | 28500 | 0.9998 | Hom.Alternative | 0.44913 | rs1042522 | 4 | NM\_000546 | P72R | cCc/cGc |
|  | chr17:7577539 | G | A | 8762 | 8365 | 0.4884 | Heterozygous | 0 | rs121912651 | 7 | NM\_000546 | R248W | Cgg/Tgg |
|  | chr17:7577575 | A | T | 8355 | 7865 | 0.4849 | Heterozygous | 0 | . | 7 | NM\_000546 | Y236N | Tac/Aac |
| A549.R3 | chr17:7579472 | G | C | 3 | 27685 | 0.9999 | Hom.Alternative | 0.44913 | rs1042522 | 4 | NM\_000546 | P72R | cCc/cGc |
|  | chr17:7577539 | G | A | 12903 | 6667 | 0.3407 | Heterozygous | 0 | rs121912651 | 7 | NM\_000546 | R248W | Cgg/Tgg |
|  | chr17:7577575 | A | T | 19813 | 10028 | 0.336 | Heterozygous | 0 | . | 7 | NM\_000546 | Y236N | Tac/Aac |
| A549.R4 | chr17:7579472 | G | C | 10 | 29517 | 0.9997 | Hom.Alternative | 0.44913 | rs1042522 | 4 | NM\_000546 | P72R | cCc/cGc |
|  | chr17:7577575 | A | T | 11601 | 5366 | 0.3163 | Heterozygous | 0 | . | 7 | NM\_000546 | Y236N | Tac/Aac |
| NCI-H1975 | chr17:7577120 | C | T | 43 | 25329 | 0.9983 | Hom.Alternative | 0.00046 | rs28934576 | 4 | NM\_000546 | R273H | cGt/cAt |
|  | chr17:7579472 | G | C | 19 | 44159 | 0.9996 | Hom.Alternative | 0.44913 | rs1042522 | 4 | NM\_000546 | P72R | cCc/cGc |