

Table S3. Summary of InDels for exome capture samples

| sample | P1, 2-F | P1, 2-M | P1 | P2 |
|-------------------------|----------------|----------------|-----------|-----------|
| Total number of indels | 7168 | 7149 | 7160 | 7109 |
| Frameshift | 242 | 251 | 250 | 235 |
| Cds-Indel | 200 | 206 | 206 | 184 |
| Splice site | 395 | 389 | 415 | 408 |
| 5-UTR | 626 | 612 | 620 | 599 |
| 3-UTR | 254 | 257 | 244 | 279 |
| Intron | 5314 | 5312 | 5297 | 5281 |
| Promoter ^a | 32 | 25 | 26 | 24 |
| Intergenic | 105 | 97 | 102 | 99 |
| Hom | 3004 | 2902 | 3012 | 2989 |
| Het | 4164 | 4247 | 4148 | 4120 |
| Total insertion | 3389 | 3347 | 3371 | 3358 |
| Total deletion | 3779 | 3802 | 3789 | 3751 |
| Ins-coding ^b | 205 | 207 | 205 | 205 |
| Del-coding ^c | 237 | 250 | 251 | 214 |

- a: Promoters are located near the genes they regulate, on the same strand and typically upstream 1000bp towards the 5' region of the sense strand.
- b: Insertion in coding sequence.
- c: Deletion in coding sequence. These two(2, 3) cases can cause potential frame-shift mutations.

