**Table EV6. List of unique mutations in ancestors *tub2-401* and *TUB2***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| *Genotype* | *chromosome* | *position* | *mutation* | *gene* | *protein\_change* |
| WT | chrIV | 1428232 | A | intergenic | NA |
| WT | chrX | 544304 | C | CDC8 | K81N |
| tub2-401 | chrIV | 389636 | G | GPR1 | S808P |
| tub2-401 | chrVII | 1049338 | T | SCW4 | NA |
| tub2-401 | chrX | 165092 | T | AIM23 | R86K |
| tub2-401 | chrXI | 46108 | A | STE6 | S63L |
| tub2-401 | chrXIV | 780662 | T | COS10 | L249F |
| tub2-401 | chrXII | 818842 | A | intergenic | NA |
| tub2-401 | chrXII | 1013798 | GT | intergenic | NA |