**Supplemental Table 1: List of homozygous insertions/deletions, missense, and nonsense variations with low MAF (< 0.05)found in the patient’s exome. Homozygous splice site mutations with low MAFs were not found.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Gene | Type | Position and variation | Depth | Mutation |
| AC009533.2 | SNV | 12\_9459854\_G\_C | 30 | MISSENSE.(1825)GCC>CCC[(609)A>P] |
| AC018793.3 | SNV | 11\_4351584\_C\_A | 92 | MISSENSE.(490)CAG>AAG[(164)Q>K] |
| AC036111.1 | SNV | 11\_55522924\_A\_G | 110 | MISSENSE.(445)ACT>GCT[(149)T>A] |
| AC126603.2 | SNV | 15\_20457291\_T\_C | 38 | MISSENSE.(598)ACA>GCA[(200)T>A] |
| AL732437.1 | InDel | 10\_5558145\_5558146\_INS\_C | 78 | CODING\_DISRUPTED\_FRAMESHIFT.(90) |
| AMAC1L1 | SNV | 18\_11644581\_G\_A | 34 | MISSENSE.(772)GCA>ACA[(258)A>T] |
| IGHV1OR15-5 | SNV | 21\_10862874\_A\_G | 173 | MISSENSE.(170)CAC>CGC[(57)H>R] |
| IGLV4-60 | InDel | 22\_22516884\_22516884\_DEL\_C | 33 | CODING\_DISRUPTED\_FRAMESHIFT.(172) |
| IGLV5-48 | SNV | 22\_22707728\_C\_T | 50 | STOP\_GAINED.(316)CAG>TAG |
| LTBP1 | SNV | 2\_33484669\_C\_T | 81 | MISSENSE.(2410)CCT>TCT[(804)P>S] |
| MCM3 | SNV | 6\_52137140\_G\_A | 50 | MISSENSE.(1786)CGC>TGC[(596)R>C] |
| MMP12 | InDel | 11\_102738793\_102738794\_INS\_T | 58 | CODING\_DISRUPTED\_FRAMESHIFT.(633) |
| MRC1L1 | SNV | 10\_17891705\_A\_G | 62 | MISSENSE.(1186)AGT>GGT[(396)S>G] |
| MYO18B | SNV | 22\_26422436\_G\_T | 158 | STOP\_GAINED.(6502)GAG>TAG |
| OR5AZ1P | SNV | 11\_57685473\_A\_G | 24 | MISSENSE.(230)ATC>ACC[(77)I>T] |
| PAGE3 | SNV | X\_55289774\_T\_C | 31 | MISSENSE.(103)AAT>GAT[(35)N>D] |
| PLEKHM1P | SNV | 17\_62782689\_T\_C | 34 | MISSENSE.(1477)ATC>GTC[(493)I>V] |
| TRBV2 | SNV | 7\_142001030\_A\_G | 18 | MISSENSE.(23)CAC>CGC[(8)H>R] |
| TRBV5-5 | SNV | 7\_142149349\_A\_C | 29 | MISSENSE.(44)GTA>GGA[(15)V>G] |
| TRBV6-6 | SNV | 7\_142162001\_A\_C | 147 | MISSENSE.(274)TAT>GAT[(92)Y>D] |
| TRBV7-3 | SNV | 7\_142247134\_T\_C | 46 | MISSENSE.(322)ATG>GTG[(108)M>V] |
| TRBV7-4 | SNV | 7\_142176378\_A\_G | 31 | MISSENSE.(298)TGC>CGC[(100)C>R] |
| WI2-3658N16.1 | SNV | 1\_146215113\_G\_A | 142 | MISSENSE.(5032)CAC>TAC[(1678)H>Y] |