

| sample_ID | PTEN_MUT | mutation_type | ref | alt | ref_count | alt_count | VAF | CDS_mutation | AA_mutation |
|-----------|----------|-------------------------|---------|-----|-----------|-----------|-------------|--------------------|----------------------|
| P001 | PTEN | frameshift_variant | GT | G | 198 | 4 | 0.01980198 | c.166delT | p.L57Wfs*42 |
| P002 | PTEN | missense_variant | A | G | 34 | 148 | 0.813186813 | c.65A>G | p.D22G |
| P003 | PTEN | Substitution - Nonsense | C | A | 29 | 127 | 0.814102564 | c.176C>A | p.S59* |
| P004 | PTEN | stop_gained | G | A | 112 | 23 | 0.17037037 | c.822G>A | p.W274* |
| P005 | PTEN | frameshift_variant | C | CT | 32 | 196 | 0.859649123 | c.956_957insT | p.L320Ffs*5 |
| P006 | PTEN | Substitution - Nonsense | C | G | 419 | 23 | 0.052036199 | c.720C>G | p.Y240* |
| P007 | PTEN | inframe_deletion | AGAT | A | 540 | 57 | 0.095477387 | c.591_593delGAT | p.M198del |
| P008 | PTEN | Substitution - Missense | G | A | 68 | 275 | 0.801749271 | c.389G>A | p.R130Q |
| P009 | PTEN | frameshift_variant | GAGAT | G | 47 | 259 | 0.846405229 | c.43_46delAGAT | p.R15fs*8 |
| P010 | PTEN | Substitution - Missense | G | A | 241 | 146 | 0.377260982 | c.389G>A | p.R130Q |
| P011 | PTEN | inframe_deletion | GTTACCT | G | 29 | 164 | 0.849740933 | c.739_744delTTACCT | p.L247_P248delinsdel |
| P012 | PTEN | Substitution - Nonsense | C | T | 147 | 247 | 0.626903553 | c.733C>T | p.Q245* |
| P013 | PTEN | splice_donor_variant | T | A | 14 | 151 | 0.915151515 | c.801+2T>A | NA |
| P014 | PTEN | missense_variant | G | T | 104 | 33 | 0.240875912 | c.212G>T | p.C71F |
| P015 | PTEN | Substitution - Missense | G | A | 41 | 385 | 0.903755869 | c.386G>A | p.G129E |
| P016 | PTEN | Substitution - Nonsense | C | T | 33 | 198 | 0.857142857 | c.781C>T | p.Q261* |
| P017 | PTEN | missense_variant | G | A | 68 | 196 | 0.742424242 | c.140G>A | p.R47K |
| P018 | PTEN | Substitution - Nonsense | C | T | 197 | 40 | 0.168776371 | c.511C>T | p.Q171* |
| P019 | PTEN | Substitution - Nonsense | T | G | 216 | 174 | 0.446153846 | c.48T>G | p.Y16* |
| P020 | PTEN | missense_variant | A | C | 294 | 150 | 0.337837838 | c.353A>C | p.H118P |
| P021 | PTEN | Substitution - Nonsense | C | T | 165 | 36 | 0.179104478 | c.1003C>T | p.R335* |
| P022 | PTEN | Substitution - Nonsense | C | A | 54 | 93 | 0.632653061 | c.195C>A | p.Y65* |
| P023 | PTEN | frameshift_variant | G | T | 194 | 152 | 0.439306358 | c.997G>T | p.A333S |
| P024 | PTEN | frameshift_variant | CT | C | 8 | 298 | 0.973856209 | c.884delT | p.L295Hfs*12 |
| P025 | PTEN | frameshift_variant | T | TA | 272 | 153 | 0.36 | c.740_741insA | p.P248Tfs*5 |
| P026 | PTEN | inframe_deletion | ATAT | A | 47 | 226 | 0.827838828 | c.147_149delTAT | p.I50del |
| P027 | PTEN | splice_donor_variant | CTG | C | 22 | 12 | 0.352941176 | c.209_209+1delTG | NA |
| P028 | PTEN | Substitution - Missense | A | G | 51 | 82 | 0.616541353 | c.182A>G | p.H61R |
| P029 | PTEN | Substitution - Nonsense | C | T | 30 | 144 | 0.827586207 | c.697C>T | p.R233* |
| P030 | PTEN | Substitution - Missense | T | C | 148 | 57 | 0.27804878 | c.202T>C | p.Y68H |
| P031 | PTEN | frameshift_variant | AT | A | 172 | 474 | 0.73374613 | c.95delT | p.I33Lfs*21 |
| P032 | PTEN | Substitution - Missense | C | T | 41 | 620 | 0.937972769 | c.367C>T | p.H123Y |
| P033 | PTEN | missense_variant | A | G | 35 | 15 | 0.3 | c.778A>G | p.K260E |
| P034 | PTEN | Substitution - Missense | T | C | 133 | 336 | 0.71641791 | c.644T>C | p.F215S |
| P035 | PTEN | missense_variant | T | G | 454 | 272 | 0.374655647 | c.312T>G | p.F104L |
| P036 | PTEN | Unknown | G | A | 11 | 16 | 0.592592593 | c.164+1G>A | NA |
| P037 | PTEN | frameshift_variant | ACTTT | A | 41 | 89 | 0.684615385 | c.956_959delCTTT | p.T319Kfs*24 |
| P038 | PTEN | Substitution - Missense | T | C | 311 | 17 | 0.051829268 | c.406T>C | p.C136R |
| P039 | PTEN | frameshift_variant | TCG | T | 335 | 172 | 0.339250493 | c.424_425delCG | p.R142Gfs*37 |
| P040 | PTEN | missense_variant | C | A | 158 | 205 | 0.564738292 | c.506C>A | p.P169H |
| P041 | PTEN | frameshift_variant | GTACT | G | 75 | 219 | 0.744897959 | c.950_953delTACT | p.T319* |
| P042 | PTEN | Substitution - Missense | T | C | 42 | 62 | 0.596153846 | c.406T>C | p.C136R |
| P043 | PTEN | Substitution - Missense | T | C | 144 | 100 | 0.409836066 | c.406T>C | p.C136R |
| P044 | PTEN | Substitution - Missense | C | T | 74 | 4 | 0.051282051 | c.500C>T | p.T167I |
| P045 | PTEN | Substitution - Missense | G | A | 38 | 28 | 0.424242424 | c.389G>A | p.R130Q |
| P046 | PTEN | inframe_deletion | AGAT | A | 30 | 28 | 0.482758621 | c.591_593delGAT | p.M198del |
| P047 | PTEN | frameshift_variant | T | TA | 4 | 38 | 0.904761905 | c.545_546insA | p.N184Efs*6 |
| P048 | #N/A | splice_donor_variant | G | A | 25 | 24 | 0.489795918 | c.1026+1G>A | NA |
| P049 | PTEN | frameshift_variant | GA | G | 173 | 11 | 0.059782609 | c.941delA | p.E314Dfs*3 |
| P050 | PTEN | Substitution - Missense | G | A | 238 | 50 | 0.173611111 | c.394G>A | p.G132S |
| P051 | PTEN | frameshift_variant | GTACT | G | 89 | 122 | 0.578199052 | c.950_953delTACT | p.T319* |
| P052 | PTEN | Substitution - Missense | T | C | 614 | 446 | 0.420754717 | c.401T>C | p.M134T |
| P053 | PTEN | inframe_deletion | TGTA | T | 29 | 20 | 0.408163265 | c.157_159delGTA | p.V53del |
| P054 | PTEN | Substitution - Missense | G | A | 150 | 56 | 0.27184466 | c.494G>A | p.G165E |
| P055 | PTEN | Substitution - Missense | G | A | 34 | 103 | 0.751824818 | c.212G>A | p.C71Y |
| P056 | PTEN | inframe_deletion | GTAT | G | 416 | 537 | 0.563483736 | c.526_528delTAT | p.Y176del |
| P057 | PTEN | Substitution - Missense | G | T | 362 | 130 | 0.264227642 | c.402G>T | p.M134I |
| P058 | PTEN | missense_variant | C | T | 137 | 13 | 0.086666667 | c.1076C>T | p.A359V |
| P059 | PTEN | Substitution - Missense | T | C | 1056 | 124 | 0.105084746 | c.401T>C | p.M134T |
| P060 | PTEN | Substitution - Missense | A | G | 7 | 32 | 0.820512821 | c.530A>G | p.Y177C |

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|------|------|-------------------------|------|---|-----|-----|-------------|------------------|--------------|
| P061 | PTEN | inframe_deletion | GTAT | G | 19 | 13 | 0.40625 | c.526_528delTAT | p.Y176del |
| P062 | PTEN | missense_variant | G | C | 82 | 110 | 0.572916667 | c.493G>C | p.G165R |
| P063 | PTEN | frameshift_variant | GT | G | 26 | 13 | 0.333333333 | c.166delT | p.L57Wfs*42 |
| P064 | PTEN | Substitution - Nonsense | C | T | 44 | 50 | 0.531914894 | c.1003C>T | p.R335* |
| P065 | PTEN | Substitution - Missense | G | A | 119 | 124 | 0.510288066 | c.394G>A | p.G132S |
| P066 | PTEN | Substitution - Missense | C | T | 84 | 88 | 0.511627907 | c.737C>T | p.P246L |
| P067 | PTEN | Substitution - Nonsense | C | G | 21 | 31 | 0.596153846 | c.540C>G | p.Y180* |
| P068 | PTEN | missense_variant | C | T | 23 | 84 | 0.785046729 | c.1076C>T | p.A359V |
| P069 | PTEN | frameshift_variant | GTA | G | 29 | 79 | 0.731481481 | c.950_953delTACT | p.T319* |
| P070 | PTEN | Substitution - Nonsense | G | A | 33 | 3 | 0.083333333 | c.822G>A | p.W274* |
| P071 | PTEN | frameshift_variant | GA | G | 28 | 104 | 0.787878788 | c.896delA | p.I300Sfs*7 |
| P072 | PTEN | missense_variant | G | C | 8 | 16 | 0.666666667 | c.493G>C | p.G165R |
| P073 | PTEN | frameshift_variant | GT | G | 114 | 4 | 0.033898305 | c.166delT | p.L57Wfs*42 |
| P074 | PTEN | Substitution - Missense | G | T | 9 | 43 | 0.826923077 | c.1026G>T | p.K342N |
| P075 | PTEN | Substitution - Missense | C | T | 33 | 29 | 0.467741935 | c.830C>T | p.T277I |
| P076 | PTEN | missense_variant | C | G | 34 | 12 | 0.260869565 | c.610C>G | p.P204A |
| P077 | PTEN | missense_variant | C | G | 7 | 165 | 0.959302326 | c.506C>G | p.P169R |
| P078 | PTEN | frameshift_variant | TA | T | 56 | 32 | 0.363636364 | c.988delA | p.D331Tfs*13 |
| P079 | PTEN | Substitution - Missense | G | C | 48 | 94 | 0.661971831 | c.256G>C | p.A86P |
| P080 | PTEN | frameshift_variant | TA | T | 54 | 6 | 0.1 | c.795delA | p.K267Rfs*9 |
| P081 | PTEN | frameshift_variant | TA | T | 33 | 29 | 0.467741935 | c.988delA | p.D331Tfs*13 |
| P082 | PTEN | frameshift_variant | TA | T | 41 | 49 | 0.544444444 | c.988delA | p.D331Tfs*13 |
| P083 | PTEN | Substitution - Missense | C | T | 11 | 65 | 0.855263158 | c.737C>T | p.P246L |
| P084 | PTEN | splice_donor_variant | G | T | 16 | 14 | 0.466666667 | c.209+1G>T | NA |
| P085 | PTEN | Substitution - Missense | T | C | 69 | 15 | 0.178571429 | c.406T>C | p.C136R |
| P086 | PTEN | missense_variant | G | T | 72 | 83 | 0.535483871 | c.402G>T | p.M134I |
| P087 | PTEN | Substitution - Missense | C | T | 95 | 70 | 0.424242424 | c.277C>T | p.H93Y |
| P088 | PTEN | missense_variant | T | C | 16 | 6 | 0.272727273 | c.497T>C | p.V166A |