

A novel somatic mutation in TPP1 induces telomere lengthening and apoptosis resistance in leukemia cells.

Supplementary Table 1. Non-synonymous and frame-shift mutations in TPP1 referenced in the public cancer database COSMIC version 71.

| CDS change | Protein change | COSMIC v71 ID | Count | Class | Domain |
|------------------|----------------|---------------|-------|------------|--------|
| c.79G>A | p.G27R | COSM3670197 | 1 | Missense | - |
| c.100C>T | p.R34* | COSM1519517 | 1 | Nonsense | - |
| c.125C>T | p.A42V | COSM4141846 | 1 | Missense | - |
| c.151C>T | p.L51F | COSM3511076 | 3 | Missense | - |
| c.154C>A | p.L52I | COSM972546 | 2 | Missense | - |
| c.167C>T | p.P56L | COSM3888782 | 1 | Missense | - |
| c.181C>T | p.P61S | COSM141471 | 2 | Missense | - |
| c.184C>T | p.L62F | COSM135719 | 2 | Missense | - |
| c.187C>T | p.P63S | COSM3888781 | 1 | Missense | - |
| c.188C>T | p.P63L | COSM3511075 | 1 | Missense | - |
| c.221A>G | p.N74S | COSM4061942 | 1 | Missense | - |
| c.229C>G | p.P77A | COSM1479001 | 1 | Missense | - |
| c.257G>T | p.G86V | COSM4061941 | 1 | Missense | - |
| c.283C>G | p.L95V | COSM119718 | 1 | Missense | OB |
| c.294G>A | p.W98* | COSM703839 | 1 | Nonsense | OB |
| c.335C>T | p.P112L | COSM3511074 | 1 | Missense | OB |
| c.505T>G | p.F169V | COSM3932389 | 1 | Missense | OB |
| c.559C>T | p.H187Y | COSM140768 | 1 | Missense | OB |
| c.562G>A | p.V188I | COSM972544 | 1 | Missense | OB |
| c.739G>A | p.A247T | COSM1302137 | 1 | Missense | PBD |
| c.794A>G | p.Q265R | COSM4061939 | 1 | Missense | PBD |
| c.865delC | p.H289fs*30 | COSM972542 | 1 | Frameshift | PBD |
| c.866A>G | p.H289R | COSM3370509 | 1 | Missense | PBD |
| c.1054C>A | p.P352T | COSM3511073 | 1 | Missense | TPP1C |
| c.1066C>A | p.P356T | COSM417319 | 1 | Missense | TPP1C |
| c.1096G>A | p.G366S | COSM4061938 | 1 | Missense | TPP1C |
| c.1109_1110CC>TT | p.S370F | COSM143470 | 1 | Missense | TPP1C |
| c.1141C>T | p.P381S | COSM972540 | 1 | Missense | TPP1C |
| c.1208G>A | p.C403Y | COSM1378975 | 1 | Missense | TPP1C |
| c.1214C>T | p.A405V | COSM471951 | 1 | Missense | TPP1C |
| c.1231C>A | p.P411T | COSM349226 | 1 | Missense | TPP1C |
| c.1244A>C | p.H415P | COSM3932388 | 1 | Missense | TPP1C |
| c.1253G>A | p.R418H | COSM1378974 | 1 | Missense | TPP1C |
| c.1286C>T | p.P429L | COSM3511072 | 1 | Missense | TPP1C |
| c.1301G>A | p.R434H | COSM1740245 | 1 | Missense | TPP1C |
| c.1337C>T | p.T446I | COSM1749706 | 2 | Missense | TPP1C |
| c.1396C>T | p.R466W | COSM1378973 | 1 | Missense | TPP1C |
| c.1399C>T | p.P467S | COSM4061937 | 1 | Missense | TPP1C |
| c.1400C>T | p.P467L | COSM1378972 | 1 | Missense | TPP1C |
| c.1430G>A | p.G477E | COSM417320 | 1 | Missense | TPP1C |
| c.1455G>T | p.W485C | COSM4061936 | 1 | Missense | TPP1C |
| c.1474C>T | p.R492C | COSM1644358 | 1 | Missense | TPP1C |
| c.1603G>T | p.G535W | COSM972538 | 1 | Missense | TPP1C |

TPP1C: TIN2-binding domain; OB: oligonucleotide/oligosaccharide-binding; PBD: POT1 binding domain.