**S4 Table Contribution of COSMIC Single Base Substitution (SBS) signatures to *S. pombe* mutational patterns**

|  |  |  |
| --- | --- | --- |
| **COSMIC Signature** | **pol2-P287R** | **WT** |
| SBS14\_GRCh38 | 26.16% | 0.00% |
| SBS20\_GRCh38 | 15.59% | 0.00% |
| SBS10a\_GRCh38 | 11.44% | 0.00% |
| SBS35\_GRCh38 | 11.41% | 0.00% |
| SBS31\_GRCh37 | 6.45% | 8.81% |
| SBS21\_GRCh38 | 6.15% | 0.15% |
| SBS17b\_GRCh38 | 4.81% | 0.99% |
| SBS33\_GRCh38 | 3.89% | 0.95% |
| SBS17a\_GRCh38 | 3.58% | 0.00% |
| SBS11\_GRCh38 | 3.49% | 0.00% |
| SBS26\_GRCh38 | 3.34% | 7.33% |
| SBS2\_GRCh38 | 1.06% | 0.63% |
| SBS28\_GRCh38 | 1.00% | 0.00% |
| SBS8\_GRCh38 | 0.55% | 0.00% |
| SBS22\_GRCh38 | 0.53% | 0.00% |
| SBS7d\_GRCh38 | 0.51% | 0.75% |
| SBS32\_GRCh38 | 0.03% | 0.00% |
| SBS1\_GRCh38 | 0.00% | 0.00% |
| SBS3\_GRCh38 | 0.00% | 0.00% |
| SBS4\_GRCh38 | 0.00% | 0.00% |
| SBS5\_GRCh38 | 0.00% | 0.00% |
| SBS6\_GRCh38 | 0.00% | 1.50% |
| SBS7a\_GRCh38 | 0.00% | 0.00% |
| SBS7b\_GRCh38 | 0.00% | 0.00% |
| SBS7c\_GRCh38 | 0.00% | 0.00% |
| SBS9\_GRCh38 | 0.00% | 0.00% |
| SBS10b\_GRCh38 | 0.00% | 0.00% |
| SBS12\_GRCh38 | 0.00% | 0.00% |
| SBS13\_GRCh38 | 0.00% | 0.00% |
| SBS15\_GRCh38 | 0.00% | 0.00% |
| SBS16\_GRCh38 | 0.00% | 0.00% |
| SBS18\_GRCh38 | 0.00% | 15.67% |
| SBS19\_GRCh38 | 0.00% | 1.45% |
| SBS23\_GRCh38 | 0.00% | 2.52% |
| SBS24\_GRCh38 | 0.00% | 14.63% |
| SBS25\_GRCh38 | 0.00% | 0.00% |
| SBS29\_GRCh38 | 0.00% | 13.45% |
| SBS30\_GRCh38 | 0.00% | 7.34% |
| SBS34\_GRCh38 | 0.00% | 0.17% |
| SBS36\_GRCh38 | 0.00% | 0.00% |
| SBS37\_GRCh38 | 0.00% | 0.00% |
| SBS38\_GRCh38 | 0.00% | 0.00% |
| SBS39\_GRCh38 | 0.00% | 20.41% |
| SBS40\_GRCh38 | 0.00% | 0.00% |
| SBS41\_GRCh38 | 0.00% | 0.00% |
| SBS42\_GRCh38 | 0.00% | 0.00% |
| SBS44\_GRCh38 | 0.00% | 0.00% |
| SBS84\_GRCh37 | 0.00% | 0.00% |
| SBS85\_GRCh37 | 0.00% | 0.00% |
| SBS86\_GRCh37 | 0.00% | 0.00% |
| SBS87\_GRCh37 | 0.00% | 3.25% |
| SBS88\_GRCh37 | 0.00% | 0.00% |
| SBS89\_GRCh37 | 0.00% | 0.00% |
| SBS90\_GRCh37 | 0.00% | 0.00% |