S1 Table. Codon usage of relevant codons in synonymous *tuf* allelesa.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *tuf* allele | Leucine | | | | | |  | Proline | | | |  | Argenine | |  | Valine | |
| **UUA** | **UUG** | **CUU** | **CUC** | **CUA** | **CUG** |  | **CCU** | **CCC** | **CCA** | **CCG** |  | **CCG** | **CGU** |  | **GUC** | **GUU** |
| *tufA* | 0 | 0 | 0 | 0 | 0 | 25 |  | 0 | 0 | 1 | 18 |  | 0 | 17 |  | 0 | 21 |
| *tufLeu(UUA)* | **25** | 0 | 0 | 0 | 0 | **0** |  | 0 | 0 | 1 | 18 |  | 0 | 17 |  | 0 | 21 |
| *tufLeu(UUA) 1st half* | **13** | 0 | 0 | 0 | 0 | **12** |  | 0 | 0 | 1 | 18 |  | 0 | 17 |  | 0 | 21 |
| *tufLeu(UUA) 2nd half* | **12** | 0 | 0 | 0 | 0 | **13** |  | 0 | 0 | 1 | 18 |  | 0 | 17 |  | 0 | 21 |
| *tufLeu(UUG)* | 0 | **25** | 0 | 0 | 0 | **0** |  | 0 | 0 | 1 | 18 |  | 0 | 17 |  | 0 | 21 |
| *tufLeu(CUU)* | 0 | 0 | **25** | 0 | 0 | **0** |  | 0 | 0 | 1 | 18 |  | 0 | 17 |  | 0 | 21 |
| *tufLeu(CUC)* | 0 | 0 | 0 | **25** | 0 | **0** |  | 0 | 0 | 1 | 18 |  | 0 | 17 |  | 0 | 21 |
| *tufLeu(CUC) 1st half* | 0 | 0 | 0 | **13** | 0 | **12** |  | 0 | 0 | 1 | 18 |  | 0 | 17 |  | 0 | 21 |
| *tufLeu(CUC) 2nd half* | 0 | 0 | 0 | **12** | 0 | **13** |  | 0 | 0 | 1 | 18 |  | 0 | 17 |  | 0 | 21 |
| *tufLeu(CUA)* | 0 | 0 | 0 | 0 | **25** | **0** |  | 0 | 0 | 1 | 18 |  | 0 | 17 |  | 0 | 21 |
| *tufLeu(CUA) 1st half* | 0 | 0 | 0 | 0 | **13** | **12** |  | 0 | 0 | 1 | 18 |  | 0 | 17 |  | 0 | 21 |
| *tufLeu(CUA) 2nd half* | 0 | 0 | 0 | 0 | **12** | **13** |  | 0 | 0 | 1 | 18 |  | 0 | 17 |  | 0 | 21 |
| *tufPro(CCU)* | 0 | 0 | 0 | 0 | 0 | 25 |  | **19** | 0 | **0** | **0** |  | 0 | 17 |  | 0 | 21 |
| *tufPro(CCC)* | 0 | 0 | 0 | 0 | 0 | 25 |  | 0 | **19** | **0** | **0** |  | 0 | 17 |  | 0 | 21 |
| *tufPro(CCA)* | 0 | 0 | 0 | 0 | 0 | 25 |  | 0 | 0 | **19** | **0** |  | 0 | 17 |  | 0 | 21 |
| *tufLeu(UUG)Pro(CCU)* | 0 | **25** | 0 | 0 | 0 | **0** |  | **19** | 0 | **0** | **0** |  | 0 | 17 |  | 0 | 21 |
| *tufLeu(UUA)Pro(CCA)* | **25** | 0 | 0 | 0 | 0 | **0** |  | 0 | 0 | **19** | **0** |  | 0 | 17 |  | 0 | 21 |
| *tufArg(CCG)* | 0 | 0 | 0 | 0 | 0 | 25 |  | 0 | 0 | 1 | 18 |  | **17** | **0** |  | 0 | 21 |
| *tufVal(GUC)* | 0 | 0 | 0 | 0 | 0 | 25 |  | 0 | 0 | 1 | 18 |  | 0 | 17 |  | **21** | **0** |

a The first forty codons were excluded to reduce the impact N-terminal codon bias. All differences between the synonymous *tuf* alleles and *tufA* are in bold.