**Table S1. List of 5’-biotinylated DNA probes used for PHAt6A.**

|  |  |  |
| --- | --- | --- |
| Target tRNA | Anticodon Stem Loop (ASL) | T-Loop (TΨC) |
| *Ec* tRNAIleGAU | 5ʹ-CACCCTTATCAGGGGTG-3ʹ | 5ʹ-AGTGGACTTGAACCACCG-3ʹ |
| *Ec* tRNAThrGGU | 5ʹ-TCACCCTTACCAAGGGTG-3ʹ | 5ʹ-ACCCAGAGTCGAACTGGG-3ʹ |
| *Sc* tRNAIleIAU | 5ʹ-CCCCGCGTTATTAGCAC-3ʹ | 5ʹ-GCGGGATCGAACCGC-3ʹ |
| *Sm* tRNAIleGAU | 5ʹ-CACGCTTATCAGGCGTGC-3ʹ | 5ʹ-AGTGGACTCGAACCACCG-3ʹ |
| *Sm* tRNAIlek2CAU | 5ʹ-CTCGGTTATGAGCCGAG-3ʹ | 5ʹ-GTAGGACTCGAACCTAC-3ʹ |
| *Sm* tRNAMetCAU | 5ʹ-CCCGGGTATGAACCGGA-3ʹ | 5ʹ-AAGGGGATCGAACCCCC -3ʹ |
| *Sm* tRNAiniMetCAU | 5ʹ-TCGGGTTATGAGCCCGA-3ʹ | 5ʹ-GCAGGATTTGAACCTACG-3ʹ |
|  |  |  |

**Table S2. Expression data of *tsaBCDE* and *prrC* genes of *S. mutans* in different conditions%.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Comparison% | PrrC\* | TsaD | TsaE | TsaB | TsaC |
| Biofilm of *S. mutans* / *S. mutans* planktonically grown | 2.242 | 2.636 | -0.238 | 0.001 | 0.334 |
| *S. mutans* TW14 (*brpA* mutant) grown in BHI / *S. mutans* UA159 grown in BHI | 0.081 | 0.509 | 0.096 | -0.085 | -1.445 |
| *clpP* mid-log RNA / wild-type mid-log RNA | 0.026 | 1.55 | 0.808 | 2.044 | 0.767 |
| *S. mutans* UA159 tri-species culture with Veillonella and *S. gordoni* / *S. mutans* UA159 dual species culture with Veillonella | -2.295 | -0.059 | -0.024 | -0.688 | 0.086 |
| *S. mutans* UA159 tri-species culture with Veillonella and *S. gordoni* / *S. mutans* UA159 monoculture | -2.665 | -0.758 | 0 | -1.166 | 0.915 |
| *S. mutans* UA159 dual-species culture *S. gordoni* / *S. mutans* UA159 monoculture | -3.031 | -0.312 | 0.293 | -0.689 | 0.956 |
| *S. mutans* UA159 dual-species culture *S. gordoni* / *S. mutans* UA159 dual-species culture with Veillonella | -2.821 | 0.485 | 0.259 | -0.143 | 0.105 |

%Data available on <https://www.patricbrc.org/>

\*PrrC, SMU.893; TsaC, SMU.1083c; TsaB, SMU.385; TsaD, SMU.387; TsaE SMU.40.

**Table S3. List of organisms and plasmids used in this study.**

|  |  |  |
| --- | --- | --- |
| **Strains** | **Description** | **Source** |
| *Saccharomyces cerevisiae* |  |  |
| BY4741 | *MATa his3*∆*1 leu2*∆*0 met15*∆*0 ura3*∆*0* (S288C) | Baker Brachmann *et al*., 1998 |
| *tcs2∆* | *sua5-∆1::LEU2* in BY4741 | El Yacoubi *et al*., 2009 |
| *tcs3∆* | *kae1∆::KANMX4* in BY4741 | El Yacoubi *et al*., 2011 |
| *tcs4∆* | *qri7∆::KANMX4* in BY4741 | Euroscarf |
| *tcs8∆* | *gon7∆::KANMX4* in BY4741, Y07017 | Euroscarf |
| *E. coli* BW25113 | F-, Δ*(araD-araB)567*, Δ*lacZ4787*(::rrnB-3), *λ-*, *rph- 1*, Δ*(rhaD-rhaB)568*, *hsdR514* | Baba *et al*,. 2006 |
| *S mutans* |  |  |
| UA159 | Wild-type | Bitoun *et al*., 2014 |
| *∆tsaC* | SMU.1083c | Quivey *et al*., 2015 |
| *∆tsaB* | SMU.385 | Quivey *et al*., 2015 |
| *∆tsaE* | SMU.409, JB409 | Bitoun *et al*., 2014 |
| **Plasmids** | **Description** | **Source** |
| pYCplac111 | *CEN LEU2,* ApR, *GAL1* inducible promoter | Geitz R.D., 1993 |
| pYCPrrCEc | pYCplac111::*prrC* from *E. coli* | Meineke *et al*., 2011 |
| pYCPrrCSm | pYCplac111::*prrC* from *S. mutans* | Meineke *et al*., 2011 |
| pYCPrrCEc K46A | pYCplac111::*prrC* K46A from *E. coli* | Meineke *et al*., 2011 |
| pRS415 | *CEN LEU2,* ApR, *GAL1* inducible promoter | Christianson *et al*., 1992 |

**Table S4. List of primers used for qPCR.**

|  |  |  |
| --- | --- | --- |
| Primer Name | | Sequence |
| *prrC* Forward | | 5ʹ- TCGAGGCAGAATTCAATGCTG-3ʹ |
| *prrC* Reverse | 5ʹ- AAATTGCTCTCTTCCCCTCTCG-3ʹ |
| *tsaC* Forward | 5ʹ- ACGAAAAAGTGCCAGCTTGG -3ʹ |
| *tsaC* Reverse | 5ʹ- AACCAAACCACTTGCCTGTC -3ʹ |
| *tsaB* Forward | 5ʹ- ATTTGGTTGGCGTGTCTAGC -3ʹ |
| *tsaB* Reverse | 5ʹ- TTCGCTGCTCTGCCATTTTC -3ʹ |
| *tsaD* Forward | 5ʹ- TCTTGTTGGAGCCCTTTTGG -3ʹ |
| *tsaD* Reverse | 5ʹ- ATCGGCAATGCTTTGTGCTG -3ʹ |
| *tsaE* Forward | 5ʹ- AACAGTGATTGAGTGGGGAGAG -3ʹ |
| *tsaE* Reverse | 5ʹ- TCATGCTCAAGTTCCGCAAC -3ʹ |
| *gyrB* Forward | 5ʹ- ACGTTCAAAACCGACCGTTC -3ʹ |
| *gyrB* Reverse | 5ʹ- ATGAAACGCGTGCCATCAAG -3ʹ |
|  | |  |