**Table S4: Analysis using PLAAC LLR score instead of PRD score**

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| **Correlations of percentage of (poly-N + poly-Q) versus PLAAC LLR score** |
| **UniProtID and UniProtName** | **Pearson R****correlation** | **# of orthologs** | **P-values and significance †** |
| P05453 ERF3\_YEAST | 0.159 | 62 | NS (\*) |
| P09547 SWI1\_YEAST | 0.328 | 56 | 0.0136\* (\*\*) |
| P14922 CYC8\_YEAST | 0.394 | 61 | 0.0017\*\* (\*\*\*) |
| P23202 URE2\_YEAST | 0.493 | 66 | 0.00003\*\*\* (\*\*\*) |
| P25367 RNQ1\_YEAST | -0.048 | 26 | NS (NS)  |
| P32432 SFP1\_YEAST | -0.042 | 64 | NS (NS)  |
| P32588 PUB1\_YEAST | 0.569 | 62 | <0.00001\*\*\* (\*\*\*)  |
| P54785 MOT3\_YEAST | -0.043 | 25 | NS (NS)  |
| Q02629 NU100\_YEAST | 0.100 | 11 | NS (NS)  |
| Q06449 PIN3\_YEAST | 0.080 | 55 | NS (NS)  |
| Q08972 NEW1\_YEAST | 0.282 | 63 | 0.0254\* (\*) |

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| **DNA GC% versus PLAAC LLR score** |
| **UniProtID and UniProtName** | **Pearson R****correlation** | **# of orthologs** | **P-values and significance †** |
| P05453 ERF3\_YEAST | -0.234 | 62  | NS (\*) |
| P09547 SWI1\_YEAST | -0.380 | 56  | 0.0039\*\* (\*\*\*) |
| P14922 CYC8\_YEAST | -0.410 | 61 | 0.001\*\* (\*\*\*) |
| P23202 URE2\_YEAST | -0.479 | 66  | 0.00005\*\*\* (\*\*\*) |
| P25367 RNQ1\_YEAST | 0.114 | 26  | NS (NS)  |
| P32432 SFP1\_YEAST | -0.020 | 64  | NS (NS)  |
| P32588 PUB1\_YEAST | -0.390 | 62  | 0.0017\*\* (\*\*\*) |
| P54785 MOT3\_YEAST | 0.101 | 25  | NS (NS)  |
| Q02629 NU100\_YEAST | -0.312 | 11  | NS (NS)  |
| Q06449 PIN3\_YEAST | -0.041 | 55  | NS (NS)  |
| Q08972 NEW1\_YEAST | -0.382 | 63  | 0.002\*\* (\*\*) |

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| **Fraction of proteome with PLAAC LLR score ≥15.0 *versu*s PLAAC LLR score** |
| **UniProtID and UniProtName** | **Pearson R****correlation** | **# of orthologs** | **P-values and significance †** |
| P05453 ERF3\_YEAST | 0.193 | 62 | NS (\*\*) |
| P09547 SWI1\_YEAST | 0.379 | 56 | 0.004\*\* (\*\*\*) |
| P14922 CYC8\_YEAST | 0.490 | 61 | 0.00006\*\*\* (\*\*\*) |
| P23202 URE2\_YEAST | 0.484 | 66 | 0.00004\*\*\* (\*\*\*) |
| P25367 RNQ1\_YEAST | -0.063 | 26 | NS (NS)  |
| P32432 SFP1\_YEAST | -0.001 | 64 | NS (NS)  |
| P32588 PUB1\_YEAST | 0.580 | 62 | <0.00001\*\*\* (\*\*\*) |
| P54785 MOT3\_YEAST | -0.062 | 25 | NS (NS) |
| Q02629 NU100\_YEAST | 0.376 | 11 | NS (NS)  |
| Q06449 PIN3\_YEAST | 0.040 | 55 | NS (NS)  |
| Q08972 NEW1\_YEAST | 0.329 | 63 | 0.009\* (\*\*) |

**†: The P-value is labelled with asterisks as follows:**

 **\* for 0.05≥P<0.005**

 **\*\* for 0.005≥P<0.0005**

 **\*\*\* for P<0.0005**

**with NS for non-significant. In brackets, are the corresponding**

**labels when using the PLAAC PRDscore.**