**Supplemental Table 1**: Literature support for ScerTF matrix recommendations for transcription factors with no experimental evidence from Harbison *et al* or Reimand *et al*

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| --- | --- | --- | --- | --- |
| Transcription Factor | Source | Source Logo | Reference Motif | Reference |
| CEP3 | Zhu |  | TGTATTTGATTTCCG | PMID: 18064045 |
| GAT4 | Zhu |  | CGDAYCSD | PMID: 16880382 |
| LYS14 | Badis |  | TCCRNYGGA | PMID: 9701810 |
| MATALPHA2 | Pachkov |  | AATTACATG | PMID: 9079665 |
| NHP6A | Zhu |  | WWCAAAG | HMG-type proteins bind in minor groove with little sequence-specificity: PMID: 1639073.  NHP binding site spans 10bp: PMID: 12381320 |
| NHP6B | Zhu |  | WWCAAAG |
| REI1 | Badis |  | NA | Badis *et al* provide additional evidence (supplemental Fig S2 in ref PMID: 19111667) that similar C2H2 zinc fingers bind AGGGG motif. Foat matrix does not resemble other C2H2 zinc finger motifs |
| RSC3 | Badis |  | NA | RSC3/RSC30 bind as a complex. Badis *et al* validate RSC3 motif against 3 *in-vivo* datasets. |
| RSC30 | Badis |  | NA |
| SPT15 | Pachkov |  | TATAWAWR | PMID: 15006352 |
| TBF1 | Zhu |  | TAGGGTTGG | PMID: 10871401 |
| TEA1 | Zhu |  | CGGN{10}CCG | PMID: 8524314 |
| YLL054C | Zhu |  | CGGN{3}TNRN{8-12}CCG | Zinc cluster protein (PMID: 16959962); binding motif is consistent with binding motif for zinc cluster family. Additionally, protein has high similarity to PIP2 (PMID: 11113969). PIP2 motif comes from 12709061 |
| YPR013C | Zhu |  | NA | The only experimental data available for YPR013C and YPR015C motifs come from the PBM platform. However, the genes have highly similar protein sequence (PMID: 9171100) and function (PMID: 18366603). Therefore, they should have similar motifs. The two motifs for YPR013C and YPR015C that are most similar to each other both come from Zhu *et al*. |
| YPR015C | Zhu |  | NA |
| YRM1 | Zhu |  |  | PMID: 21471402 |