

Table S3

The lists of significant PEs in different TSS types and in upstream and downstream segments.

The yellow highlighted TFs are unique for the considered groups when compared with the same upstream or downstream segment of another TSS group with the same GC-richness

| B_dwn | D_dwn | C_up | D_up | B_up | A_up | C_dwn | A_dwn |
|--------------|-------|--------------|--------------|------------------|------------------|------------------|------------------|
| AP-4 | AP-4 | AP-4 | C/EBPbeta | ADR1 | ADR1 | ADR1 | ADR1 |
| Dof3 | Dof3 | C/EBPbeta | Dof3 | AP-2 | AP-2 | AP-2 | AP-2 |
| E2F-1 | E2F-1 | Dof3 | E2F-1 | AP-2alpha | AP-2alpha | AP-2alpha | AP-2alpha |
| Ets | Eve | E2F-1 | ETS | AP-2gamma | AP-2gamma | AP-2gamma | AP-2gamma |
| Eve | HSF | ETS | Ets | AP-4 | AP-4 | AP-2rep | AP-2rep |
| HSF | HSF1 | Ets | GC box | Alfin1 | Alfin1 | AP-4 | AP-4 |
| Hb | STAT4 | GC box | IRF | COUP | COUP | COUP | COUP |
| PBF | c-Myb | Hb | Lyf-1 | CP2/LBP-1c/LSF | CP2/LBP-1c/LSF | CP2/LBP-1c/LSF | CP2/LBP-1c/LSF |
| STAT4 | DBP | IRF | MYB | CREB | CREB | Churchill | Churchill |
| c-Myb | Ncx | Knox3 | MYBAS1 | Churchill | Churchill | Dde box | Dde box |
| AP-2 | | MYB | NF-1 | Dde box | Dde box | E2F | E2F |
| C1 | | NF-1 | PBF | E2F | E2F | E2F-1 | E2F-1 |
| Churchill | | PBF | RFX | E2F-1 | E2F-1 | ETF | ETF |
| E2F | | STAT3 | STAT3 | EGR | EGR | Eve | Eve |
| GAGA factor | | STAT6 | STAT6 | ETF | ETF | FACB | FACB |
| Helios A | | Sp-1 | Sp-1 | Elk-1 | Elk-1 | GAGA factor | GAGA factor |
| IRF | | Sp1 | Sp1 | Ets | Ets | GC box | GC box |
| LIM1 | | Spz1 | Spz1 | Eve | Eve | LBP-1 | LBP-1 |
| MYB | | TATA | TATA | FACB | FACB | LF-A1 | LF-A1 |
| STAT3 | | ZF5 | ZF5 | GAGA factor | GAGA factor | LIM1 | LIM1 |
| STAT6 | | Zic1 | Zic1 | GC box | GC box | MZF1 | MZF1 |
| Spz1 | | Zic3 | Zic3 | Knox3 | Knox3 | Muscle initiator | Muscle initiator |
| VDR | | c-Ets-1(p54) | c-Ets-1(p54) | LF-A1 | LF-A1 | RAR | RAR |
| ZF5 | | AP-2 | ADR1 | LIM1 | LIM1 | RAV1 | RAV1 |
| Zic1 | | AP-2gamma | AP-1 | MAZ | MAZ | RFX | RFX |
| c-Ets-1(p54) | | Churchill | C1 | MZF1 | MZF1 | Sp-1 | Sp-1 |
| p300 | | E2F | C_EBP | Muscle initiator | Muscle initiator | Sp1 | Sp1 |
| | | Elk-1 | HNF-1 | NF-1 | NF-1 | Spz1 | Spz1 |
| | | Eve | TCF11 | PU.1 | PU.1 | TFII-I | TFII-I |

| | | | | | |
|-------|-------|-------------------|--------------|-------------|-------------|
| FACB | VDR | RAR | RAR | VDR | VDR |
| HNF-4 | c-Myb | RAV1 | RAV1 | ZF5 | ZF5 |
| Ik-2 | | Sp-1 | Sp-1 | Zic1 | Zic1 |
| NF-AT | | Sp1 | Sp1 | Zic2 | Zic2 |
| PU.1 | | Sp3 | Sp3 | Zic3 | Zic3 |
| TFIIA | | Spz1 | Spz1 | p300 | p300 |
| p300 | | TFII-I | TFII-I | p53 decamer | p53 decamer |
| | | VDR | VDR | Ets | Adf-1 |
| | | ZF5 | ZF5 | HNF-4 | Alfin1 |
| | | Zic1 | Zic1 | Ik-2 | CF1 / USP |
| | | Zic2 | Zic2 | Knox3 | EGR |
| | | Zic3 | Zic3 | MyoD | P |
| | | c-Ets-1(p54) | c-Ets-1(p54) | PPAR | PCF2 |
| | | p300 | p300 | STAT3 | |
| | | p53 decamer | p53 decamer | STAT6 | |
| | | AP-2rep | AHRHIF | TTF-1 | |
| | | CAC-binding prote | CF1 / USP | XPF-1 | |
| | | ETS | Hairy | | |
| | | HNF-4 | KROX | | |
| | | Lyf-1 | LBP-1 | | |
| | | MYBAS1 | MAZR | | |
| | | P | PCF2 | | |
| | | PPAR | USF2 | | |
| | | RFX | c-Myc:Max | | |
| | | STAT3 | | | |
| | | STAT6 | | | |