

## SUPPLEMENTARY TABLES

**Table S1:** The primers of hub transcription factors for qRT-PCR.

Hub transcription factors	Forward primer	Reverse primer
FOXD1	TGAGCACTGAGATGTCCGATG	CACCACGTCGATGTCTGTTTC
ARNT2	CGTCACCCCTGTTCTGAACC	CGGCCTGTCATTGAGTTTTCT
ZNF132	ATGCTGGAAAACCTTGAGCTT	TGGAAGGATCTGCATTAGGGA

qRT-PCR: Quantitative reverse transcription polymerase chain reaction, FOXD1: Forkhead box D1, ARNT2: Aryl hydrocarbon receptor nuclear translocator 2, ZNF132: Zinc finger protein 132, A: Adenosine, C: Cytosine, G: Guanine, T: Thymine

<b>Table S2:</b> Genes within each module.	
Module	Gene
Black	343
Blue	716
Brown	633
Cyan	69
Green	459
Green-yellow	138
Grey	38
Magenta	228
Pink	280
Purple	142
Red	437
Salmon	97
Tan	111
Turquoise	836
Yellow	473

**Table S3:** Potential transcription factors in three modules.

Green-yellow module	Magenta module	Turquoise module
PRDM16	E2F8	ZNF646
ZNF774	HMGB3	HIC2
ZNF311	ZIC2	TBX10
ETS2	ZNF596	NR4A2
SALL2	ZNF547	YEATS4
ZNF215	ZBTB16	AIRE
IRF4	SOX17	VAX2
HES2	EBF1	CAMTA1
ZNF229	ZIC5	ZNF284
ZNF584	DLX3	ZBTB11
ZNF628	IRX2	HSF2
FOXD1	GLI2	HLF
ZNF341	MAFG	ZNF354C
MEF2C	MAF	ZNF649
	ARNT2	ZNF781
		HNF4G
		ZSCAN12
		TCF15
		ZNF750
		ZBTB47 NR4A3 DPRX ARID2 SMARCA1 PRDM1 FOXD2
		ZNF775 LBX2 ZNF132

(Contd...)

**Table S3:** (Continued).

Green-yellow module	Magenta module	Turquoise module
		NR4A1 EBF2 PEG3 NFYB ZNF391 TBX6 HOXB7 ZNF280D ZNF445 ZNF416 ZFP28 FOXQ1 ZNF764 THAP10 ZNF574 TSC22D3 TP73 OTX1 BATF3 ZNF502 SATB2 TBX1 TULP4 GRHL3 JAZF1 CUX2 FOXA3 ZNF831 ZNF491 FOS SIX4 ZNF273 ZEB2 SALL4 FOXN1 ZNF800 ZNF462 ZNF77 CDX1 ZNF200
FOXD1: Forkhead box D1, ARNT2: Aryl hydrocarbon receptor nuclear translocator 2, ZNF132: Zinc finger protein 132		