

Table S1

Highly Enriched Factors -- Differentiated State

TBP	TCF7	HOXB5
ZFP128	POU3F2	HOXB13
DBX1	IRX3	ALX3
TLX2	DLX3	HOXB7
SOX21	HNF1B	PLAGL1
SOX14	LMX1A	SOX30
POU1F1	HOXB4	HNF1A
SOX13	HOXD10	MSX3
GLIS2	CUX1	HOXA7
POU3F4	FOKK1	SOX12
HOXC6	HOXC5	FOXJ3
POU3F1	OTP	HLTF
FOXL1	LMX1B	ESX1
DBX2	BARHL2	EN2
HOXD8	HOXA6	ARID5A
SOX8	IRX3	RHOX6
FOXL1	ZFP105	PROP1
FOXA2	HLX	HOXA2
SOX18	SOX7	UNCX
HOXA4	NKX6-1	PRRX1
SOX5	SRF	GSX2
POU4F3	PHOX2B	ELF3
HOXC8	VSX1	BARX1
IRX6	LHX5	POU3F3
NKX6-3	HOXD1	HOXA1
SOX17	HOXA5	ARID3A
IRX5	FOXJ1	BARHL1
SOX1	HOXB8	TCFAP2E
MTF1	NKX6-1	LHX4
ARID5A	HOXD3	HMBOX1
HOXC4	ZFP187	NFIL3
SRY	PAX7	GATA3
BARX2	DLX2	
LHX3	MSX1	
LHX1	SOX1	

GO Terms -- Differentiated State

NERVOUS_SYSTEM_DEVELOPMENT
 CENTRAL_NERVOUS_SYSTEM_DEVELOPMENT
 SENSORY_PERCEPTION
 NEUROLOGICAL_SYSTEM_PROCESS
 REGULATION_OF_CELL_PROLIFERATION
 SYSTEM_PROCESS
 CELL_PROLIFERATION_GO_0008283
 CELL_DEVELOPMENT
 NEGATIVE_REGULATION_OF_CELLULAR_PROCESS
 NEGATIVE_REGULATION_OF_BIOLOGICAL_PROCESS
 NUCLEUS

Table S1

Highly Enriched Factors -- Undifferentiated State

TBP HOXC4
 DBX1 LHX1
 ZFP128 IRX3
 TLX2 ZIC1
 SOX21 NKX6-1
 SRF PHOX2B
 GLIS2 SOX5
 ZFP105 BARHL2
 SOX14 CUX1
 ELF3 PLAGL1
 MTF1 OTP
 POU1F1 POU3F3
 PLAGL1 SOX18
 POU3F4 IRX3
 TCFAP2E ZFP423
 POU3F1 LHX5
 FOXL1 VSX1
 SOX13 SOX1
 HOXC6 HOXA9
 NKX6-3 PRRX1
 FOXA2 GLIS2
 POU4F3 LHX4
 IRX6
 LHX3
 DBX2
 ARID5A
 IRX5
 HOXA4
 POU3F2
 FOXK1
 SOX8
 BARX2
 TCF7
 SOX1
 HOXB8

Go Terms -- Undifferentiated State

NERVOUS_SYSTEM_DEVELOPMENT
 SENSORY_PERCEPTION
 TRANSCRIPTION_COACTIVATOR_ACTIVITY
 NEUROLOGICAL_SYSTEM_PROCESS
 REGULATION_OF_CELL_PROLIFERATION
 IDENTICAL_PROTEIN_BINDING
 SYSTEM_PROCESS
 CELL_PROLIFERATION_GO_0008283
 NEGATIVE_REGULATION_OF_CELLULAR_PROCESS
 POSITIVE_REGULATION_OF_CELLULAR_PROCESS
 NEGATIVE_REGULATION_OF_BIOLOGICAL_PROCESS
 POSITIVE_REGULATION_OF_BIOLOGICAL_PROCESS
 NUCLEUS