A Dopaminergic neurons Pdat-1::3XFLAG::PAB-1

- B Hypodermis P*dpy-7*::3XFLAG::PAB-1
- **C** glr-1+ neurons Pglr-1::3XFLAG::PAB-1
- D CEP sheath cells Phlh-17::3XFLAG::PAB-1
- E Coelomocytes Punc-122::3XFLAG::PAB-1
- **F** Excretory cell P*clh-4*::3XFLAG::PAB-1









Developmental stage data set



Tissues / cell types

Spencer et al. Supplemental Fig. S5



Spencer et al. Supplemental Fig. S6

Α





В







Spencer et al. Supplemental Fig. S9







Spencer et al. Supplemental Fig. S12





same tissue at different time point





Spencer et al. Supplemental Fig. S16





GO Biological Process





Spencer et al. Supplemental Fig. S20

Α	EE reference	EE germ line prec.	EE BAG neuron	LE reference	LE panneural
	LE AVA neuron	LE AVE neuron	LE A-class neuron	LE body wall muscle	LE coelomocyte
	LE dop. neuron	LE GABA neuron	LE hypodermis	LE intestine	LE phar. muscle
	L2 reference	L2 panneural	L2 A-class neuron	L2 body wall muscle	L2 coelomocyte
	L2 excretory cell	L2 GABA neuron	L2 glut. rec. neuron	L2 intestine	L3/L4 reference
	L3/L4 dop. neuron	L3/L4 hypodermis	L3/L4 PVD/OLL neuron	YA reference	YA cephalic sheath
			В	C C C C C C C C C C	C7 C10
-1	.29 0.25	1.79	<u>)</u>		C14 C8

Mean-centered log expression











В

over-representation 20 --20 under-representation



SOM clusters (cell types)



ocation	mut. inf.	motif name
5'	0.036	Homez, GATA2, CDP_CR3+HD
5'	0.035	RSC3, E2F3_1, E2F2_1
5'	0.016	-
3'UTR	0.016	-
5'	0.013	-
5'	0.012	-
5'	0.011	-
3'UTR	0.010	
5'	0.009	XBP1
5'	0.008	CRE-BP1_c-Jun, MIZF
5'	0.031	GATA2, GATA-3, Gata1
3'UTR	0.019	-
5'	0.018	USF, USF, RTG3
5'	0.024	Ascl2_2, SP1, RGM1
5'	0.013	RORalpha2, PPARG, RORA_2
5'	0.010	E47, MyoD, Sn
5'	0.010	-
5'	0.010	-
5'	0.021	NGFI-C
5'	0.014	Spdef_2
3'UTR	0.009	miR-52, miR-54, miR-56
3'UTR	0.016	miR-80, miR-81, miR-58
3'UTR	0.012	-
5'	0.011	Six2, Six1, Six3
3'UTR	0.009	-
5'	0.008	GATA-X, Tal1_Gata1, GATA-1
5'	0.008	Mafb, UME6
3'UTR	0.007	-
3'UTR	0.007	-
		motif a sum s

Spencer et al. Suppl. Fig. S23

_2 ... -1 ... location mut. inf. motif name 5' 0.046 Gata3_1, GATA2, GATA-3 ... 5' 0.012 3'UTR 0.012 Tcf1_2, Bcd, Obox6 ... 5' 0.009 5' 0.008 5' 0.033 C_EBPalpha, C_EBPbeta, Cebpa CDP, CDP_CR3+HD, CDP_CR1 ... 5' 0.017 5' 0.009 3'UTR 0.025 5' 0.024 Sp1, Ascl2_2, Macho-1 ... 5' 0.018 SPI1 5' 0.013 3'UTR 0.012 miR-47*, miR-46*, miR-80 ... 5' 0.011 TATA 5' 0.010 AZF1. PBF. PBF 5' 0.009 5' 0.016 ZAP1, Esrra_1, NR2F1 ... 5' 0.013 GIS1, TBF1, MSN2 ... 5' 0.012 5' 0.011 Zfp161_1, Zfp161_2, RSC3 ... 5' 0.011 5' 0.008 5' 0.006 ETS1, EWSR1-FLI1, NF-kappaB_p65_ ... 5' 0.015 NRSF 5' 0.012 5' 0.011 Zfp691_1 5' 0.009 3'UTR 0.013 miR-61, miR-232, miR-247 ... 5' 0.009 5' 0.012 CREB, FHL1, TGA1A ... 5' 0.011 Su H 3'UTR 0.011 miR-54, miR-56, miR-55 ... 5' 0.009 5' 0.011 5' 0.010 CdxA, TATA, TATA-Box ... 5' 0.010 5' 0.009 3'UTR 0.008 miR-239a, miR-238, miR-239b 3'UTR 0.008 5' 0.008 3'UTR 0.008

GLN3, GATA2 miR-356, miR-233, miR-1019* ... SKO1, ZAP1

5'

3'UTR

5'

3'UTR

=]__________

0.008

0.008

0.007

0.007



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