log2(TPM) change of TotX in DGRP-551 male from 3 to 50 in all clusters 13 Cluster 0 47 D 81 G-KC Perineurial-glia Gr43a **Photoreceptors** 83 13 5 84 X L1 **Plasmatocytes** 4 11 15 50 G Υ L2 Pm1/Pm2 16 6 51 Н A/B*-KC L3 Pm1/Pm2/Pm3 54 adPN/C15&kn L4/L5 m Pm3 **Expression Level** adPN/kn Lamina-monopolar Poxn 19 8 56 adPN/kn&CG31676 Lawf1 Proc/Ms AstA/NPF Serotonergic 6 Lawf2

AstA/Nplp1

Capa

Clock

Astrocyte-like

Chiasm-glia

Dm8/Dm11

Dopaminergic

Ensheathing-glia

LNv

IPN/CG31676

Octopaminergic

Olfactory-projection-neurons

IPN/unpg

MBON

Mi1

Mip

PAM

g

Subperineurial-glia

T2

T3 s

Tm1/TmY8

Tm5ab

Tm5c

Tm9

TmY14

Tyraminergic

62 Μ

67

68 0 C3

75 S

76

79

R

> 69 Ρ

Young Age Old Age Age Group