

Tadh\_TriadT25027 nate\_type\_subunit\_1,glutamate\_ionotropic\_receptor\_AMPA\_type\_subunit\_2,glutamate\_iono 2 metacells TrH2 OG\_4668 TrH2\_TrispH2\_007722-RA nate\_type\_subunit\_1,glutamate\_ionotropic\_receptor\_AMPA\_type\_subunit\_2,glutamate\_iono metacells Hhon OG\_4668 Hhon\_g02971.t1 nate\_type\_subunit\_1,glutamate\_ionotropic\_receptor\_AMPA\_type\_subunit\_2,glutamate\_iono -4 + 7055 + 6023 + 60metacells HoiH23 OG\_4668 HoiH23\_PIH23\_007108-RA nate\_type\_subunit\_1,glutamate\_ionotropic\_receptor\_AMPA\_type\_subunit\_2,glutamate\_iono  $^{-4} + ^{0} +$ metacells

**Tadh OG\_4668** 

Tadh OG\_5067 HoiH23 OG\_5067 Tadh\_wf\_g5526.t1 HoiH23\_PIH23\_001116-RA thymosin\_beta\_4\_X\_linked,erythrocyte\_membrane\_protein\_band\_4.1\_like\_3,thymosin\_betahymosin\_beta\_4\_X\_linked,erythrocyte\_membrane\_protein\_band\_4.1\_like\_3,thymosin\_beta 2 -a $^{-4}$ metacells metacells **Tadh OG\_5067** HoiH23 OG\_5067 Tadh\_TriadT64069 HoiH23\_PIH23\_006991-RA thymosin\_beta\_4\_X\_linked,erythrocyte\_membrane\_protein\_band\_4.1\_like\_3,thymosin\_betahymosin\_beta\_4\_X\_linked,erythrocyte\_membrane\_protein\_band\_4.1\_like\_3,thymosin\_beta\_10 ¬  $^{-4}$ metacells metacells TrH2 OG\_5067 TrH2\_TrispH2\_011135-RA metacells TrH2 OG\_5067 TrH2\_TrispH2\_007984-RA thymosin\_beta\_4\_X\_linked,erythrocyte\_membrane\_protein\_band\_4.1\_like\_3,thymosin\_beta  $^{-4}$   $^{+}$  metacells TrH2 OG\_5067 thymosin\_beta\_4\_X\_linked,erythroc embrane\_protein\_band\_4.1\_like\_3,thymosin\_beta metacells TrH2 OG\_5067 TrH2\_TrispH2\_001493-RA thymosin\_beta\_4\_X\_linked,erythrocyte\_membrane\_protein\_band\_4.1\_like\_3,thymosin\_beta metacells **Hhon OG\_5067** Hhon\_g05621.t1 thymosin\_beta\_4\_X\_liրked,erythrocyte\_membrane\_protein\_band\_4.1\_like\_3,thymosin\_beta metacells **Hhon OG\_5067** Hhon\_g00260.t1 thymosin\_beta\_4\_X\_linked,erythrocyte\_membrane\_protein\_band\_4.1\_like\_3,thymosin\_beta 

# **Tadh OG\_5716** Tadh\_TriadT11741 solute\_carrier\_family\_1\_member\_2 metacells TrH2 OG\_5716 TrH2\_TrispH2\_006789-RA solute\_carrier\_family\_1\_member\_2 metacells Hhon OG\_5716 Hhon\_g07519.t1 solute\_carrier\_family\_1\_member\_2 metacells HoiH23 OG\_5716 HoiH23\_PIH23\_005270-RA solute\_carrier\_family\_1\_member\_2 metacells

### **Tadh OG\_6235** Tadh\_TriadT59917 carboxylesterase\_1,neuroligin\_1,neuroligin\_3 $-\frac{1}{2}$ metacells TrH2 OG\_6235 TrH2\_TrispH2\_007605-RA carboxylesterase\_1,neuroligin\_1,neuroligin\_3 10 metacells Hhon OG\_6235 Hhon\_g09097.t1 carboxylesterase\_1,neuroligin\_1,neuroligin\_3 metacells HoiH23 OG\_6235 HoiH23\_PIH23\_005489-RA carboxylesterase\_1,neuroligin\_1,neuroligin\_3 10 metacells HoiH23 OG\_6235 HoiH23\_PIH23\_005490-RA carboxylesterase\_1,neuroligin\_1,neuroligin\_3

**Tadh OG\_7187** Tadh\_TriadT32115 acetylcholinesterase\_Cartwright\_blood\_group,neuroligin\_4\_X\_linked,neuroligin\_3 metacells TrH2 OG\_7187 TrH2\_TrispH2\_010573-RA acetylcholinesterase\_Cartwright\_blood\_group,neuroligin\_4\_X\_linked,neuroligin\_3 metacells **Hhon OG\_7187** Hhon\_g01156.t1 acetylcholinesterase\_Cartwright\_blood\_group,neuroligin\_4\_X\_linked,neuroligin\_3 metacells HoiH23 OG\_7187 HoiH23\_PIH23\_009133-RA acetylcholinesterase\_Cartwright\_blood\_group,neuroligin\_4\_X\_linked,neuroligin\_3 metacells HoiH23 OG\_7187 HoiH23\_PIH23\_010954-RA acetylcholinesterase\_Cartwright\_blood\_group,neuroligin\_4\_X\_linked,neuroligin\_3 2 · metacells

# Tadh OG\_7191 Tadh\_TriadT31975 butyrylcholinesterase,neuroligin\_4\_X\_linked metacells TrH2 OG\_7191 TrH2\_TrispH2\_010569-RA butyrylcholinesterase,neuroligin\_4\_X\_linked metacells Hhon OG\_7191 Hhon\_g01152.t1 butyrylcholinesterase,neuroligin\_4\_X\_linked metacells HoiH23 OG\_7191 HoiH23\_PIH23\_010958-RA $but yryl choline sterase, neuro ligin\_4\_X\_linked$

metacells

**Tadh OG\_7988** Tadh\_TriadT25025 PA\_type\_subunit\_1,glutamate\_ionotropic\_receptor\_AMPA\_type\_subunit\_4,glutamate\_ionot metacells **Tadh OG\_7988** Tadh\_TriadT56251 PA\_type\_subunit\_1,glutamate\_ionotropic\_receptor\_AMPA\_type\_subunit\_4,glutamate\_ionot metacells TrH2 OG\_7988 TrH2\_TrispH2\_011511-RA PA\_type\_subunit\_1,glutamate\_ionotropic\_receptor\_AMPA\_type\_subunit\_4,glutamate\_ionot metacells **Hhon OG\_7988** Hhon\_g02972.t1 PA\_type\_subunit\_1,glutamate\_ionotropic\_receptor\_AMPA\_type\_subunit\_4,glutamate\_ionot metacells HoiH23 OG\_7988 HoiH23\_PIH23\_011441-RA PA\_type\_subunit\_1,glutamate\_ionotropic\_receptor\_AMPA\_type\_subunit\_4,glutamate\_ionot 

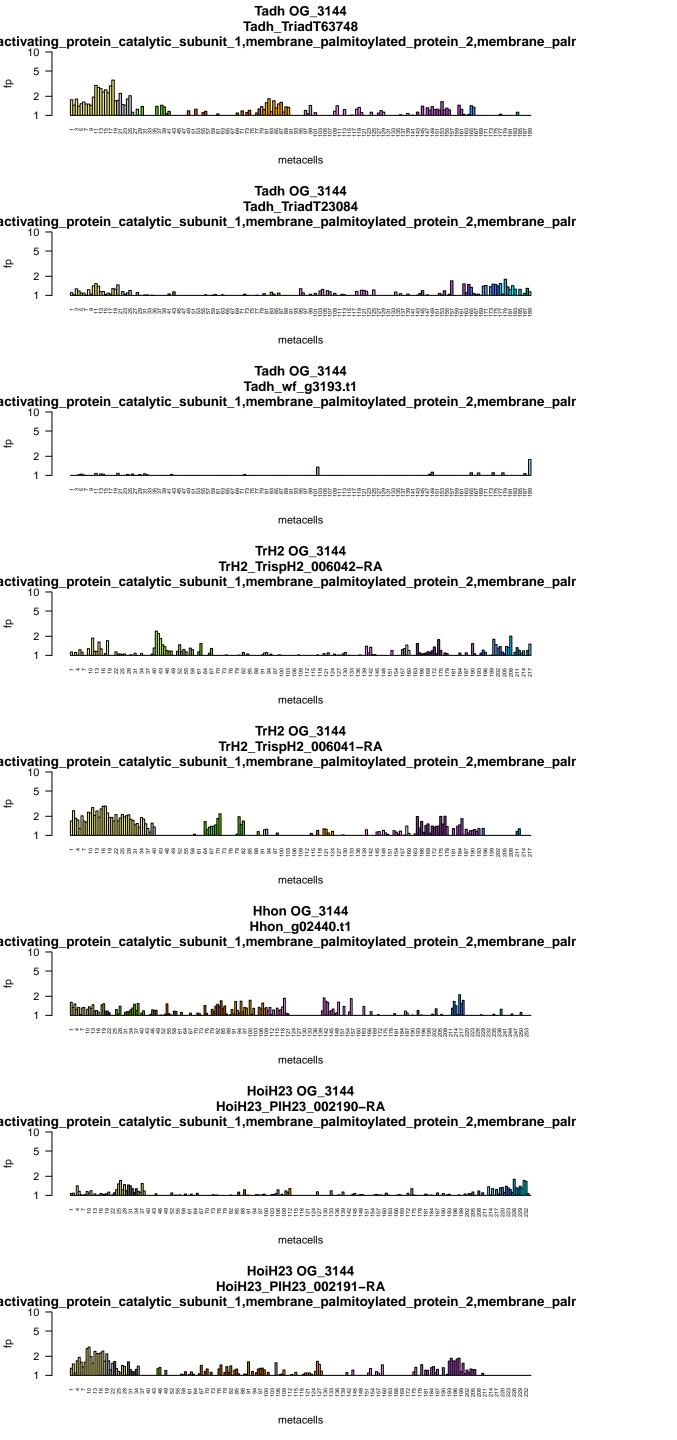
**Tadh OG\_8652** Tadh\_TriadT60483 tein\_tyrosine\_phosphatase\_non\_receptor\_type\_5,protein\_tyrosine\_phosphatase\_receptor\_ metacells TrH2 OG\_8652 TrH2\_TrispH2\_002994-RA tein\_tyrosine\_phosphatase\_non\_receptor\_type\_5,protein\_tyrosine\_phosphatase\_receptor\_ metacells **Hhon OG\_8652** Hhon\_g03898.t1 tein\_tyrosine\_phosphatase\_non\_receptor\_type\_5,protein\_tyrosine\_phosphatase\_receptor\_ -4 + 7055 + 6023 + 60metacells HoiH23 OG\_8652 HoiH23\_PIH23\_004883-RA tein\_tyrosine\_phosphatase\_non\_receptor\_type\_5,protein\_tyrosine\_phosphatase\_receptor\_  $^{-4} \\ \text{$^{+2}$} \\ \text{$^{+2}$ 

### Tadh OG\_8741 Tadh\_TriadT29105 solute\_carrier\_family\_6\_member\_13, solute\_carrier\_family\_6\_member\_12 metacells TrH2 OG\_8741 TrH2\_TrispH2\_002074-RA $solute\_carrier\_family\_6\_member\_13, solute\_carrier\_family\_6\_member\_12$ metacells Hhon OG\_8741 Hhon\_g09268.t1 $solute\_carrier\_family\_6\_member\_13, solute\_carrier\_family\_6\_member\_12$ $^{-4}{}^{+}$ metacells HoiH23 OG\_8741 HoiH23\_PIH23\_005938-RA $solute\_carrier\_family\_6\_member\_13, solute\_carrier\_family\_6\_member\_12$ 10 metacells

### Tadh OG\_9539 Tadh\_TriadT11320 calcium\_sensing\_receptor 10 metacells TrH2 OG\_9539 TrH2\_TrispH2\_011337-RA calcium\_sensing\_receptor metacells Hhon OG\_9539 Hhon\_g10147.t1 calcium\_sensing\_receptor metacells HoiH23 OG\_9539 HoiH23\_PIH23\_010912-RA calcium\_sensing\_receptor metacells

Tadh OG\_9719 Tadh\_TriadT28445 myoferlin metacells TrH2 OG\_9719 TrH2\_TrispH2\_005139-RA myoferlin metacells Hhon OG\_9719 Hhon\_g02267.t1 myoferlin metacells HoiH23 OG\_9719 HoiH23\_PIH23\_003263-RA myoferlin metacells

# double\_C2\_domain\_beta,rabphilin\_3A,intersectin\_1 Tadh | no data TrH2 OG\_2119 TrH2\_TrispH2\_007539-RA $double\_C2\_domain\_beta, rabphilin\_3A, intersectin\_1$ 10 metacells Hhon OG\_2119 Hhon\_g07633.t1 double\_C2\_domain\_beta,rabphilin\_3A,intersectin\_1 metacells Hhon OG\_2119 Hhon\_g07634.t1 double\_C2\_domain\_beta,rabphilin\_3A,intersectin\_1 $^{-4} + ^{0} +$ metacells HoiH23 OG\_2119 HoiH23\_PIH23\_002313-RA $double\_C2\_domain\_beta, rabphilin\_3A, intersectin\_1$ metacells



#### Tadh OG\_4114 Tadh\_TriadT61664 $extended\_synaptotagmin\_2, CD82\_molecule, tetraspanin\_11$ 10 metacells TrH2 OG\_4114 TrH2\_TrispH2\_008105-RA ded\_synaptotagmin\_2,CD82\_molecule,tetraspanin\_11 metacells Hhon OG\_4114 Hhon\_g05559.t1 $extended\_synaptotagmin\_2, CD82\_molecule, tetraspanin\_11$ $^{-4}{}^{+}$ metacells Hhon OG\_4114 Hhon\_g05560.t1 extended\_synaptotagmin\_2,CD82\_molecule,tetraspanin\_11 $^{-4} + ^{0} +$ metacells HoiH23 OG\_4114 HoiH23\_PIH23\_004937-RA $extended\_synaptotagmin\_2, CD82\_molecule, tetraspanin\_11$ 10 metacells HoiH23 OG\_4114 HoiH23\_PIH23\_004938-RA $extended\_synaptotagmin\_2, CD82\_molecule, tetraspanin\_11$ metacells

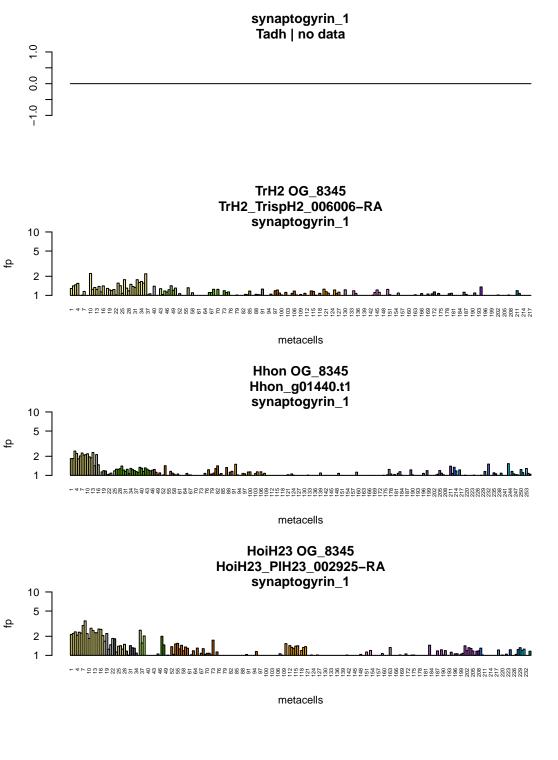


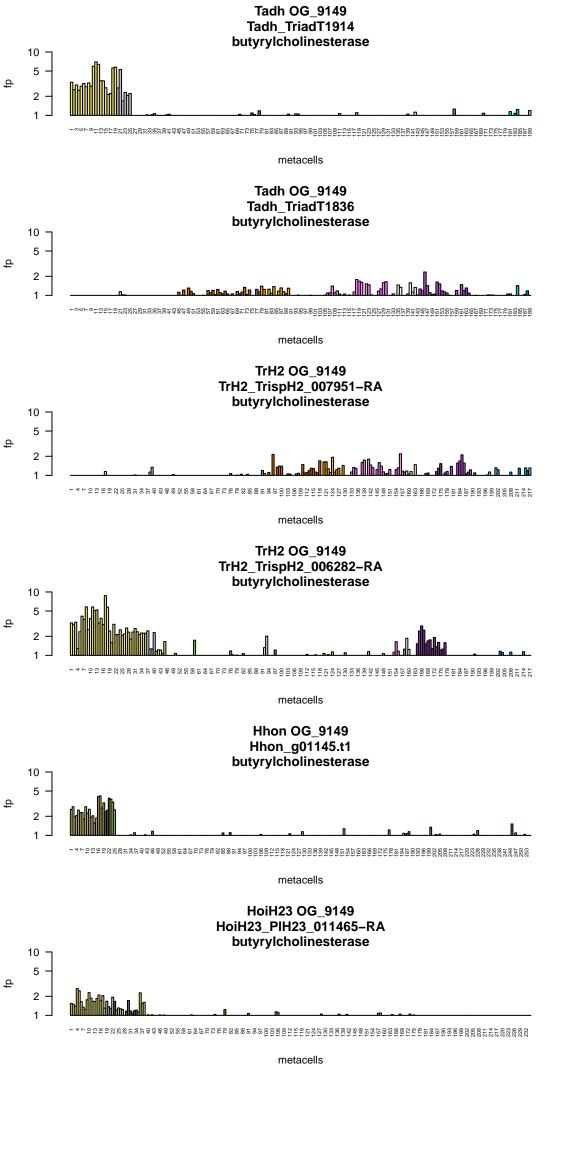


# solute\_carrier\_family\_45\_member\_2 Tadh | no data TrH2 OG\_5595 TrH2\_TrispH2\_002750-RA solute\_carrier\_family\_45\_member\_2 metacells TrH2 OG\_5595 TrH2\_TrispH2\_002751-RA solute\_carrier\_family\_45\_member\_2 metacells Hhon OG\_5595 Hhon\_g00445.t1 solute\_carrier\_family\_45\_member\_2 10 -4 + 7055 + 61232 + 61244 + 61232 + 61242 + 61232 +metacells HoiH23 OG\_5595 HoiH23\_PIH23\_009559-RA solute\_carrier\_family\_45\_member\_2

**Tadh OG\_5762** Tadh\_TriadT27813 solute\_carrier\_family\_6\_member\_1,solute\_carrier\_family\_6\_member\_13 10 metacells TrH2 OG\_5762 TrH2\_TrispH2\_002848-RA  $solute\_carrier\_family\_6\_member\_1, solute\_carrier\_family\_6\_member\_13$ 10 metacells Hhon OG\_5762 Hhon\_g10708.t1  $solute\_carrier\_family\_6\_member\_1, solute\_carrier\_family\_6\_member\_13$ 10 metacells HoiH23 OG\_5762 HoiH23\_PIH23\_003774-RA  $solute\_carrier\_family\_6\_member\_1, solute\_carrier\_family\_6\_member\_13$ 10 metacells

**Tadh OG\_7162** Tadh\_TriadT64243 \_carrier\_family\_2\_member\_8,solute\_carrier\_family\_2\_member\_2,solute\_carrier\_family\_2\_m metacells TrH2 OG\_7162 TrH2\_TrispH2\_008388-RA metacells **Hhon OG\_7162** Hhon\_g08440.t1 \_carrier\_family\_2\_member\_8,solute\_carrier\_family\_2\_member\_2,solute\_carrier\_family\_2\_m --4-55550118822294444688882965555888829295555557557252558837445247585888575552988888888747598888888444588 metacells **Hhon OG\_7162** Hhon\_g08441.t1 \_carrier\_family\_2\_member\_8,solute\_carrier\_family\_2\_member\_2,solute\_carrier\_family\_2\_m  $^{-4} + ^{0} +$ metacells HoiH23 OG\_7162 HoiH23\_PIH23\_010441-RA 





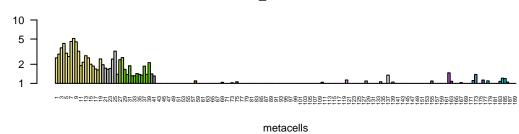
## Tadh OG\_9740 Tadh\_TriadT53974 protein\_interacting\_with\_PRKCA\_1 metacells TrH2 OG\_9740 TrH2\_TrispH2\_009611-RA protein\_interacting\_with\_PRKCA\_1 metacells Hhon OG\_9740 Hhon\_g00314.t1 protein\_interacting\_with\_PRKCA\_1 metacells HoiH23 OG\_9740 HoiH23\_PIH23\_010100-RA protein\_interacting\_with\_PRKCA\_1 10

#### Tadh OG\_10152 Tadh\_TriadT54565 $synaptotagmin\_1, mitochondrial\_ribosomal\_protein\_S11, synaptotagmin\_7$ metacells TrH2 OG\_10152 TrH2\_TrispH2\_001296-RA $synaptotagmin\_1, mitochondrial\_ribosomal\_protein\_S11, synaptotagmin\_7$ 10 metacells Hhon OG\_10152 Hhon\_g05915.t1 $synaptotagmin\_1, mitochondrial\_ribosomal\_protein\_S11, synaptotagmin\_7$ metacells HoiH23 OG\_10152 HoiH23\_PIH23\_000559-RA $synaptotagmin\_1, mitochondrial\_ribosomal\_protein\_S11, synaptotagmin\_7$ 10

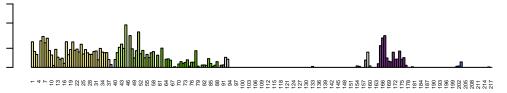
# Tadh | no data TrH2 OG\_10224 TrH2\_TrispH2\_006466-RA $solute\_carrier\_organic\_anion\_transporter\_family\_member\_4A1$ metacells TrH2 OG\_10224 TrH2\_TrispH2\_006468-RA $solute\_carrier\_organic\_anion\_transporter\_family\_member\_4A1$ metacells Hhon OG\_10224 Hhon\_g06189.t1 solute\_carrier\_organic\_anion\_transporter\_family\_member\_4A1 10 metacells Hhon OG\_10224 Hhon\_g06190.t1 solute\_carrier\_organic\_anion\_transporter\_family\_member\_4A1 $^{-4} + ^{-} +$ metacells HoiH23 OG\_10224 HoiH23\_PIH23\_001218-RA $solute\_carrier\_organic\_anion\_transporter\_family\_member\_4A1$ metacells HoiH23 OG\_10224 HoiH23\_PIH23\_001219-RA solute\_carrier\_organic\_anion\_transporter\_family\_member\_4A1 $\begin{smallmatrix} & +4 \\ & +6$ metacells

solute\_carrier\_organic\_anion\_transporter\_family\_member\_4A1

#### Tadh OG\_698 Tadh\_TriadT63863

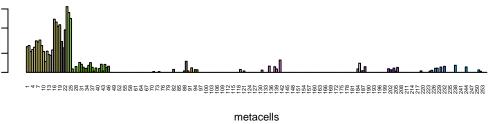


TrH2 OG\_698 TrH2\_TrispH2\_001544-RA



metacells

#### Hhon OG\_698 Hhon\_g02580.t1

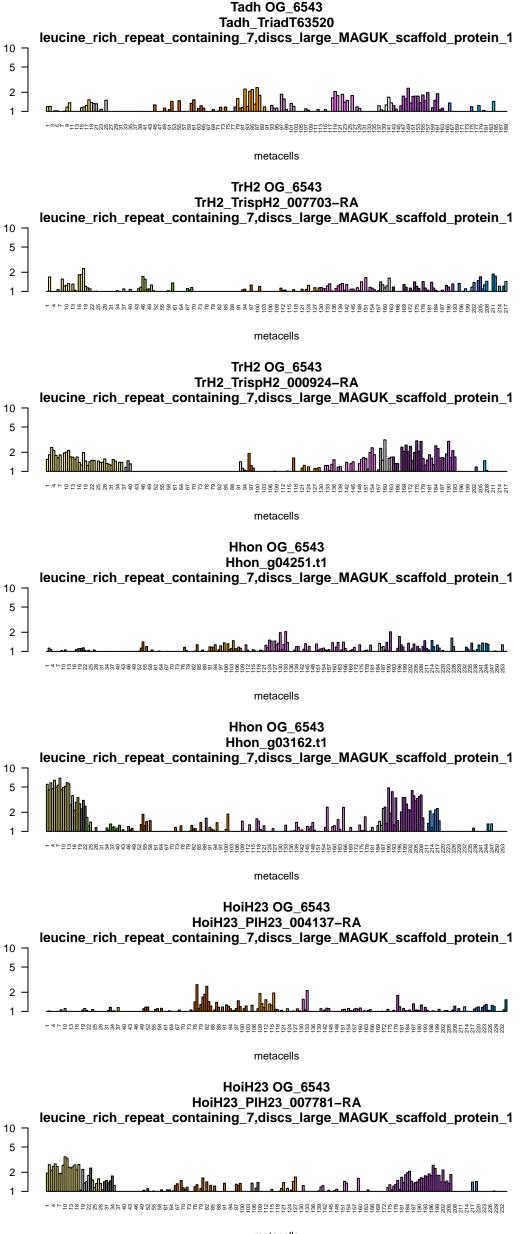


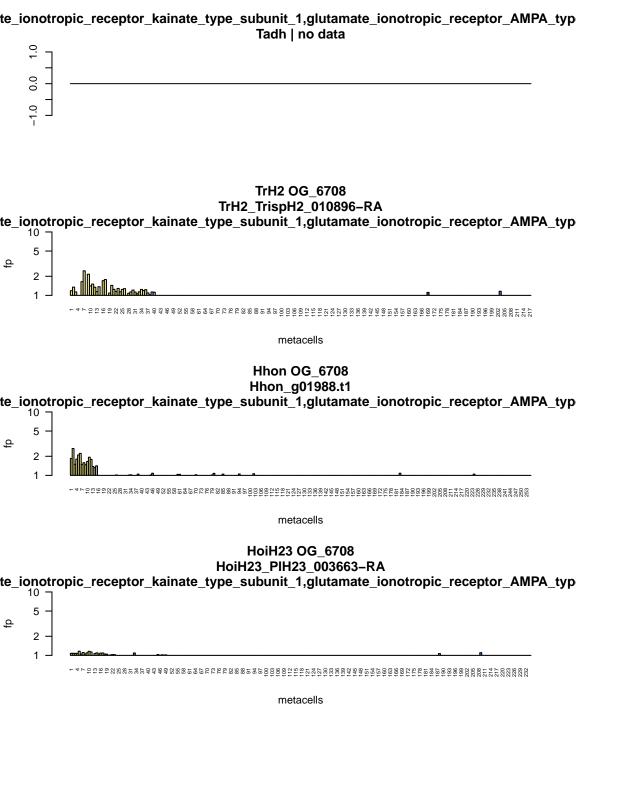
HoiH23 OG\_698 HoiH23\_PIH23\_003314-RA

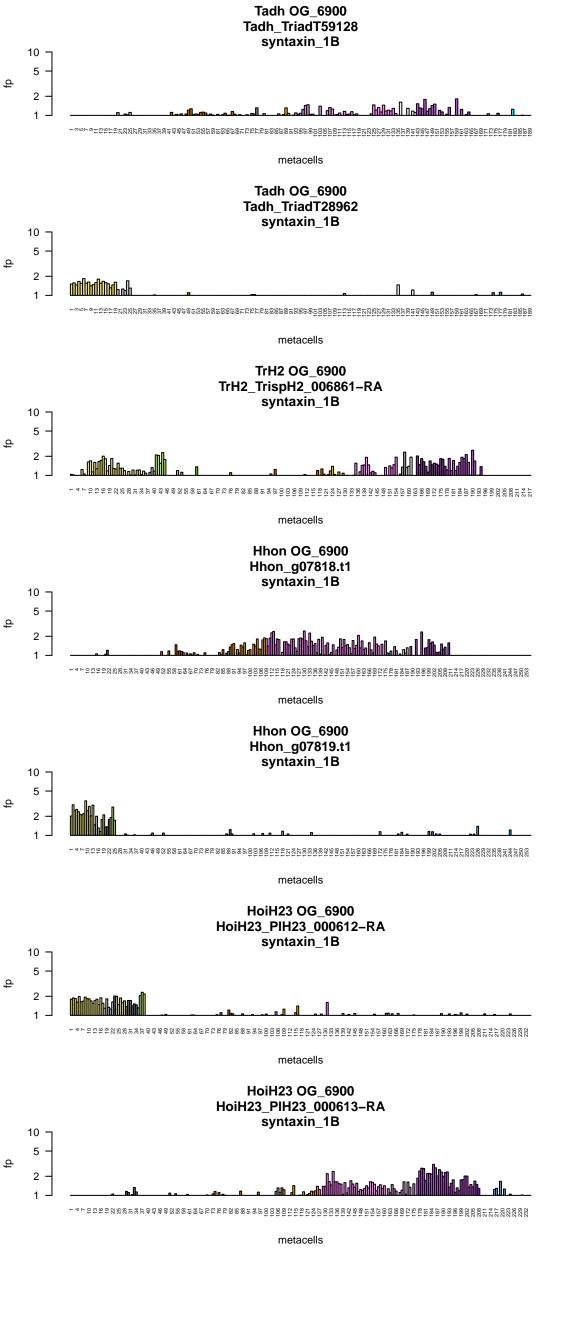
# **Tadh OG\_5349** Tadh\_TriadT61121 butyrylcholinesterase metacells TrH2 OG\_5349 TrH2\_TrispH2\_010578-RA butyrylcholinesterase metacells Hhon OG\_5349 Hhon\_g01162.t1 butyrylcholinesterase metacells HoiH23 OG\_5349 HoiH23\_PIH23\_007479-RA butyrylcholinesterase metacells

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**Tadh OG\_5820** Tadh\_TriadT2811 cium\_sensing\_receptor,glutamate\_metabotropic\_receptor\_2,glutamate\_metabotropic\_rece metacells **Tadh OG\_5820** Tadh\_TriadT55249 cium\_sensing\_receptor,glutamate\_metabotropic\_receptor\_2,glutamate\_metabotropic\_rece metacells **Tadh OG\_5820** Tadh\_wf\_g4033.t1 cium\_sensing\_receptor,glutamate\_metabotropic\_receptor\_2,glutamate\_metabotropic\_rece TrH2 OG\_5820 TrH2\_TrispH2\_001751-RA cium\_sensing\_receptor,glutamate\_metabotropic\_receptor\_2,glutamate\_metabotropic\_rece metacells TrH2 OG\_5820 TrH2\_TrispH2\_001750-RA cium\_sensing\_receptor,glutamate\_metabotropic\_receptor\_2,glutamate\_metabotropic\_rece **Hhon OG\_5820** Hhon\_g05225.t1 cium\_sensing\_receptor,glutamate\_metabotropic\_receptor\_2,glutamate\_metabotropic\_rece metacells HoiH23 OG\_5820 HoiH23\_PIH23\_007935-RA cium\_sensing\_receptor,glutamate\_metabotropic\_receptor\_2,glutamate\_metabotropic\_rece  $\begin{smallmatrix} & +4 \\ & +6$ metacells







#### Tadh OG\_7852 Tadh\_TriadT59571 $calcium\_sensing\_receptor$ 10 metacells TrH2 OG\_7852 TrH2\_TrispH2\_011336-RA calcium\_sensing\_receptor $\begin{smallmatrix} 1&4&5&5&5&5&5\\ 1&4&5&5&5&5&5\\ 2&5&5&5&5&5&5\\ 2&$ metacells Hhon OG\_7852 Hhon\_g10148.t1 calcium\_sensing\_receptor metacells HoiH23 OG\_7852 HoiH23\_PIH23\_010911-RA calcium\_sensing\_receptor 10 metacells HoiH23 OG\_7852 HoiH23\_PIH23\_010167-RA $calcium\_sensing\_receptor$

Tadh\_TriadT14565 te\_ionotropic\_receptor\_kainate\_type\_subunit\_2,glutamate\_ionotropic\_receptor\_AMPA\_typ 2 metacells TrH2 OG\_7978 TrH2\_TrispH2\_007748-RA te\_ionotropic\_receptor\_kainate\_type\_subunit\_2,glutamate\_ionotropic\_receptor\_AMPA\_typ metacells Hhon OG\_7978 Hhon\_g02946.t1 te\_ionotropic\_receptor\_kainate\_type\_subunit\_2,glutamate\_ionotropic\_receptor\_AMPA\_typ ф metacells HoiH23 OG\_7978 HoiH23\_PIH23\_010905-RA te\_ionotropic\_receptor\_kainate\_type\_subunit\_2,glutamate\_ionotropic\_receptor\_AMPA\_typ

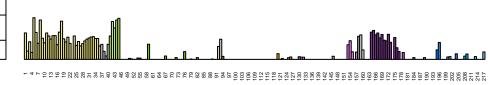
10 ¬  $^{-4} \\ \text{$^{+2}$} \\ \text{$^{+2}$ metacells

**Tadh OG\_7978** 

Tadh OG\_9291 Tadh\_TriadT19964 nitric\_oxide\_synthase\_1 metacells TrH2 OG\_9291 TrH2\_TrispH2\_007031-RA nitric\_oxide\_synthase\_1 metacells Hhon OG\_9291 Hhon\_g04041.t1 nitric\_oxide\_synthase\_1 metacells HoiH23 OG\_9291 HoiH23\_PIH23\_000842-RA nitric\_oxide\_synthase\_1 10 metacells

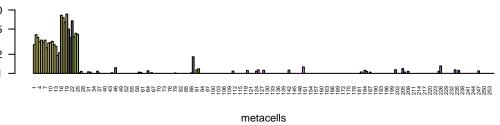
#### Tadh OG\_9832 Tadh\_TriadT58349 solute\_carrier\_family\_46\_member\_3 արարար --unr-u-tatravuuvuuuvuvuuvuuvuuvuuvuuvuu aataavassassassassassassassa tatravuutta 1999-1999-1999-1999-1999-199 metacells TrH2 OG\_9832 TrH2\_TrispH2\_002873-RA solute\_carrier\_family\_46\_member\_3 10 -metacells Hhon OG\_9832 Hhon\_g05027.t1 solute\_carrier\_family\_46\_member\_3 metacells HoiH23 OG\_9832 HoiH23\_PIH23\_006737-RA solute\_carrier\_family\_46\_member\_3 metacells

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metacells

#### Hhon OG\_696 Hhon\_g02578.t1



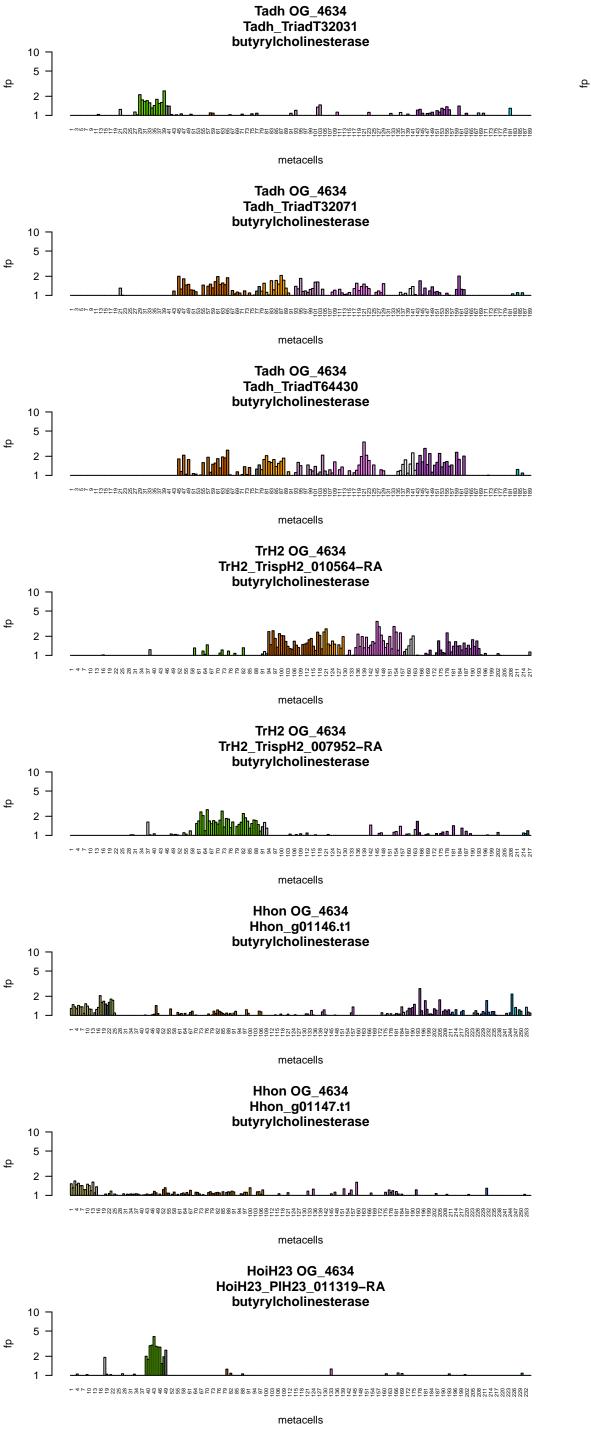
HoiH23 OG\_696 HoiH23\_PIH23\_003312-RA

-4r05555148524688824655555888824655558888248882465555888888

**Tadh OG\_3302** Tadh\_TriadT60419 C2\_and\_transmembrane\_domain\_containing\_1,multiple\_C2\_and\_transmembrane\_domain\_ 2 metacells Tadh OG\_3302 Tadh\_wf\_g9391.t1 C2\_and\_transmembrane\_domain\_containing\_1,multiple\_C2\_and\_transmembrane\_domain\_ metacells Tadh OG\_3302 Tadh\_TriadT60418 C2\_and\_transmembrane\_domain\_containing\_1,multiple\_C2\_and\_transmembrane\_domain\_ metacells TrH2 OG\_3302 TrH2\_TrispH2\_002925-RA C2\_and\_transmembrane\_domain\_containing\_1,multiple\_C2\_and\_transmembrane\_domain\_  $\begin{smallmatrix} 1&4&5&5&5&5&5\\1&4&5&5&5&5&$ metacells **Hhon OG\_3302** Hhon\_g11502.t1 C2\_and\_transmembrane\_domain\_containing\_1,multiple\_C2\_and\_transmembrane\_domain\_ 2 -4 + 525 = 62328 + 248388 + 2485888 + 248588 + 248588 + 248588 + 248588 + 248588 + 248588 + 2485888 + 248588 + 248588 + 248588 + 248588 + 248588 + 248588 + 2485888 + 248588 + 248588 + 2485888 + 2485888 + 248588 + 248588 + 248588 + 248588 + 248588 + 248588 + 248588 + 248588 + 248588 + 2485metacells HoiH23 OG\_3302 HoiH23\_PIH23\_003444-RA C2\_and\_transmembrane\_domain\_containing\_1,multiple\_C2\_and\_transmembrane\_domain\_ metacells HoiH23 OG\_3302 HoiH23\_PIH23\_003445-RA C2\_and\_transmembrane\_domain\_containing\_1,multiple\_C2\_and\_transmembrane\_domain\_  $\begin{smallmatrix} & +4 \\ & +6$ metacells

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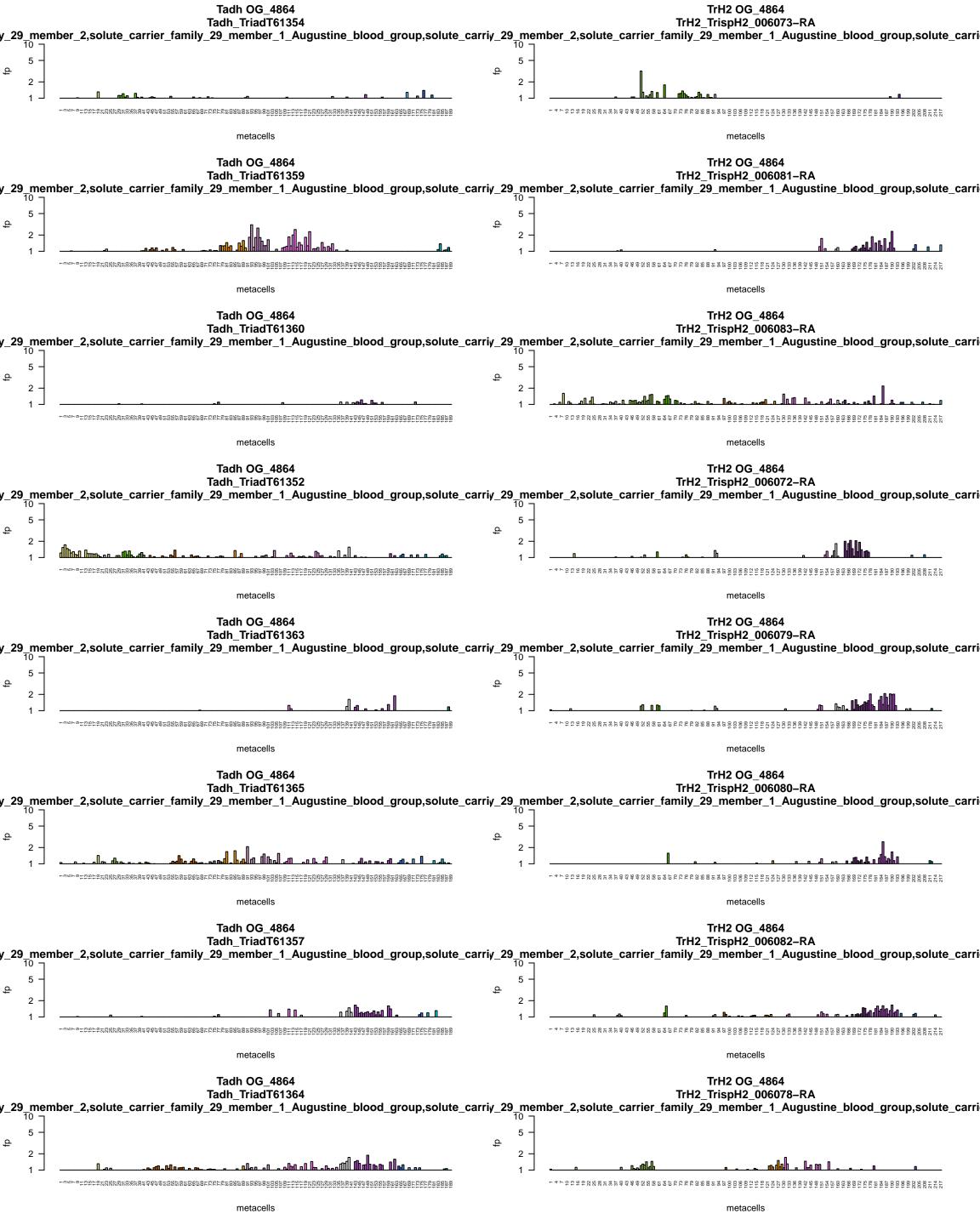
#### Tadh OG\_3944 Tadh\_TriadT28705 sphingosine\_1\_phosphate\_lyase\_1 10 metacells TrH2 OG\_3944 TrH2\_TrispH2\_010762-RA sphingosine\_1\_phosphate\_lyase\_1 10 -metacells Hhon OG\_3944 Hhon\_g09901.t1 sphingosine\_1\_phosphate\_lyase\_1 metacells HoiH23 OG\_3944 HoiH23\_PIH23\_000590-RA sphingosine\_1\_phosphate\_lyase\_1 10 5

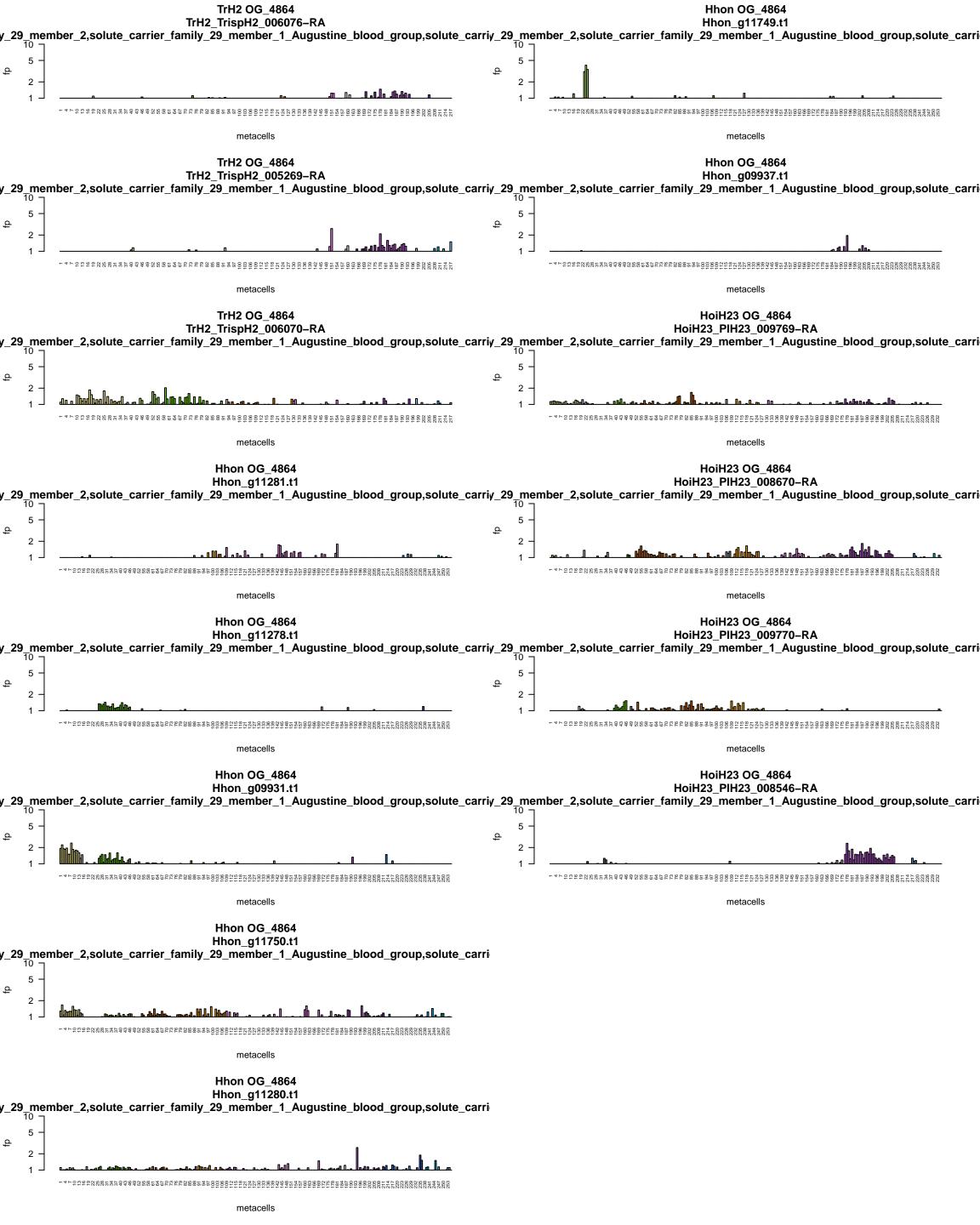


#### HoiH23 OG\_4634 HoiH23\_PIH23\_011464-RA butyrylcholinesterase

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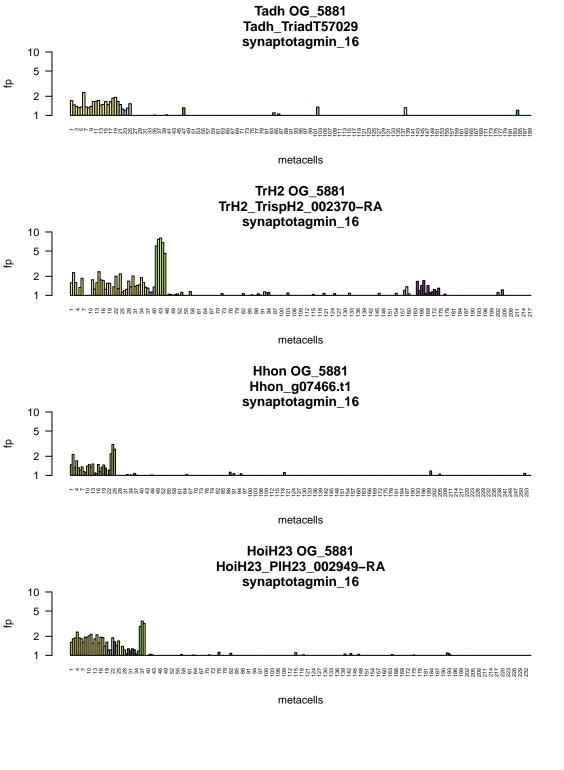


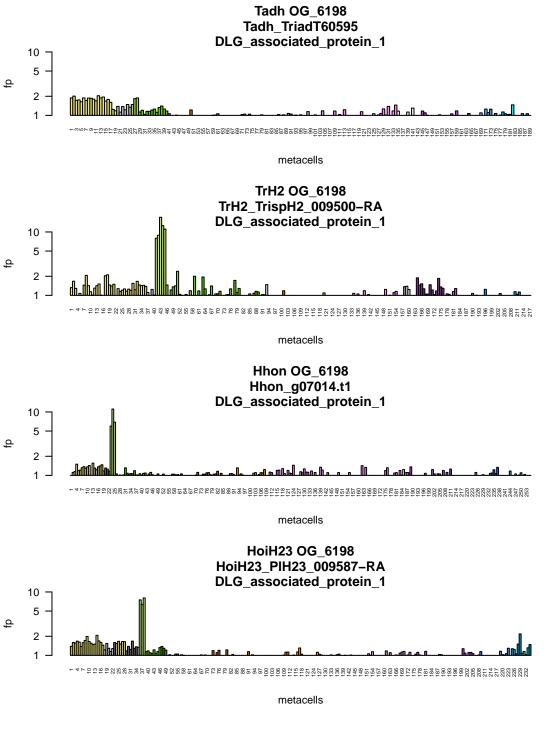


**Tadh OG\_5443** Tadh\_TriadT14966 ucuronate\_decarboxylase\_1,glutamate\_metabotropic\_receptor\_7,glutamate\_metabotropic\_ metacells **Tadh OG\_5443** Tadh\_TriadT29937 ucuronate\_decarboxylase\_1,glutamate\_metabotropic\_receptor\_7,glutamate\_metabotropic\_ metacells TrH2 OG\_5443 TrH2\_TrispH2\_010125-RA ucuronate\_decarboxylase\_1,glutamate\_metabotropic\_receptor\_7,glutamate\_metabotropic\_ metacells **Hhon OG\_5443** Hhon\_g03032.t1 ucuronate\_decarboxylase\_1,glutamate\_metabotropic\_receptor\_7,glutamate\_metabotropic\_ metacells Hhon OG\_5443 Hhon\_g03033.t1 ucuronate\_decarboxylase\_1,glutamate\_metabotropic\_receptor\_7,glutamate\_metabotropic\_ HoiH23 OG\_5443 HoiH23\_PIH23\_010635-RA ucuronate\_decarboxylase\_1,glutamate\_metabotropic\_receptor\_7,glutamate\_metabotropic\_ metacells HoiH23 OG\_5443 HoiH23\_PIH23\_010636-RA ucuronate\_decarboxylase\_1,glutamate\_metabotropic\_receptor\_7,glutamate\_metabotropic\_  $\begin{smallmatrix} & +4 \\ & +6$ metacells

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**Tadh OG\_7212** Tadh\_TriadT18013  $synaptic\_vesicle\_glycoprotein\_2C, synaptic\_vesicle\_glycoprotein\_2B$ 10 metacells TrH2 OG\_7212 TrH2\_TrispH2\_011564-RA  $synaptic\_vesicle\_glycoprotein\_2C, synaptic\_vesicle\_glycoprotein\_2B$ 10  $\begin{smallmatrix} 1&4&5&5&5&5&6\\ 1&4&5&5&5&6\\ 1&4&5&5&6&6\\ 1&4&5&6&6&6&6\\ 1&4&5&6&6&6&6\\ 1&4&5&6&6&6&6\\ 1&4&5&6&6&6&6\\ 1&4&5&6&6&6&6\\ 1&4&5&6&6&6&6\\ 1&4&5&6&6&6&6\\ 1&4&5&6&6&6$ metacells Hhon OG\_7212 Hhon\_g06839.t1 synaptic\_vesicle\_glycoprotein\_2C,synaptic\_vesicle\_glycoprotein\_2B  $^{-4}{}^{+}$ metacells HoiH23 OG\_7212 HoiH23\_PIH23\_003949-RA  $synaptic\_vesicle\_glycoprotein\_2C, synaptic\_vesicle\_glycoprotein\_2B$ 10 metacells

# Tadh OG\_7705 Tadh\_TriadT58608 solute\_carrier\_family\_49\_member\_3 metacells TrH2 OG\_7705 TrH2\_TrispH2\_008197-RA solute\_carrier\_family\_49\_member\_3 metacells Hhon OG\_7705 Hhon\_g04382.t1 solute\_carrier\_family\_49\_member\_3 metacells HoiH23 OG\_7705 HoiH23\_PIH23\_003686-RA solute\_carrier\_family\_49\_member\_3

#### **Tadh OG\_7989** Tadh\_TriadT59563 glutamate\_metabotropic\_receptor\_7,glutamate\_metabotropic\_receptor\_4 10 metacells TrH2 OG\_7989 TrH2\_TrispH2\_011780-RA $glutamate\_metabotropic\_receptor\_7, glutamate\_metabotropic\_receptor\_4$ 10 $\begin{smallmatrix} 1&4&5&5&5&5&6\\ 1&4&5&5&5&6\\ 1&4&5&5&6&6\\ 1&4&5&6&6&6&6\\ 1&4&5&6&6&6&6\\ 1&4&5&6&6&6&6\\ 1&4&5&6&6&6&6\\ 1&4&5&6&6&6&6\\ 1&4&5&6&6&6&6\\ 1&4&5&6&6&6&6\\ 1&4&5&6&6&6$ metacells Hhon OG\_7989 Hhon\_g10141.t1 glutamate\_metabotropic\_receptor\_7,glutamate\_metabotropic\_receptor\_4 -4 + 7055 + 6052 + 60metacells HoiH23 OG\_7989 HoiH23\_PIH23\_011425-RA $glutamate\_metabotropic\_receptor\_7, glutamate\_metabotropic\_receptor\_4$ 10 $^{-4} \\ \text{$^{+2}$} \\ \text{$^{+2}$ metacells HoiH23 OG\_7989 HoiH23\_PIH23\_011427-RA $glutamate\_metabotropic\_receptor\_7, glutamate\_metabotropic\_receptor\_4$ 10

#### Tadh OG\_8019 Tadh\_TriadT56005 protein\_tyrosine\_phosphatase\_mitochondrial\_1 metacells TrH2 OG\_8019 TrH2\_TrispH2\_004372-RA protein\_tyrosine\_phosphatase\_mitochondrial\_1 10 $\begin{smallmatrix} 1&4&5&5&5&5&6\\ 1&4&5&5&5&6\\ 1&4&5&5&6&6\\ 1&4&5&6&6&6&6\\ 1&4&5&6&6&6&6\\ 1&4&5&6&6&6&6\\ 1&4&5&6&6&6&6\\ 1&4&5&6&6&6&6\\ 1&4&5&6&6&6&6\\ 1&4&5&6&6&6&6\\ 1&4&5&6&6&6$ metacells Hhon OG\_8019 Hhon\_g07988.t1 protein\_tyrosine\_phosphatase\_mitochondrial\_1 -4 + 7055 + 61232 + 61244 + 61232 + 61242 + 61232 +metacells HoiH23 OG\_8019 HoiH23\_PIH23\_006147-RA protein\_tyrosine\_phosphatase\_mitochondrial\_1 10 metacells

Tadh OG\_8188 Tadh\_TriadT61967 myosin\_VIIA 10 metacells TrH2 OG\_8188 TrH2\_TrispH2\_006312-RA myosin\_VIIA metacells TrH2 OG\_8188 TrH2\_TrispH2\_006313-RA myosin\_VIIA metacells **Hhon OG\_8188** Hhon\_g04928.t1 myosin\_VIIA 10 metacells HoiH23 OG\_8188 HoiH23\_PIH23\_005020-RA myosin\_VIIA metacells

### **Tadh OG\_8486** Tadh\_TriadT33521 $solute\_carrier\_family\_6\_member\_1$ 10 metacells TrH2 OG\_8486 TrH2\_TrispH2\_007554-RA solute\_carrier\_family\_6\_member\_1 metacells Hhon OG\_8486 Hhon\_g06517.t1 solute\_carrier\_family\_6\_member\_1 metacells HoiH23 OG\_8486 HoiH23\_PIH23\_004014-RA solute\_carrier\_family\_6\_member\_1 10

metacells

### Tadh OG\_8757 Tadh\_wf\_g964.t1 calcium\_sensing\_receptor 10 metacells TrH2 OG\_8757 TrH2\_TrispH2\_000991-RA calcium\_sensing\_receptor metacells Hhon OG\_8757 Hhon\_g02928.t1 calcium\_sensing\_receptor metacells HoiH23 OG\_8757 HoiH23\_PIH23\_010020-RA calcium\_sensing\_receptor 10 metacells

### Tadh OG\_8920 Tadh\_TriadT51955 myotubularin\_related\_protein\_1,myotubularin\_1 metacells TrH2 OG\_8920 TrH2\_TrispH2\_006333-RA myotubularin\_related\_protein\_1,myotubularin\_1 metacells Hhon OG\_8920 Hhon\_g05727.t1 myotubularin\_related\_protein\_1,myotubularin\_1 metacells HoiH23 OG\_8920 HoiH23\_PIH23\_002275-RA myotubularin\_related\_protein\_1,myotubularin\_1 10

Tadh OG\_8993 Tadh\_TriadT52504 syntaxin\_16 10 -metacells TrH2 OG\_8993 TrH2\_TrispH2\_000160-RA syntaxin\_16 metacells Hhon OG\_8993 Hhon\_g04453.t1 syntaxin\_16 metacells HoiH23 OG\_8993 HoiH23\_PIH23\_000791-RA syntaxin\_16 10 metacells

## Tadh OG\_9059 Tadh\_TriadT37304 IQ\_motif\_containing\_GTPase\_activating\_protein\_1 metacells TrH2 OG\_9059 TrH2\_TrispH2\_002493-RA $IQ\_motif\_containing\_GTPase\_activating\_protein\_1$ 10 $\begin{smallmatrix} 1&4&5&5&5&5&6\\ 1&4&5&5&5&6\\ 1&4&5&5&6&6\\ 1&4&5&6&6&6&6\\ 1&4&5&6&6&6&6\\ 1&4&5&6&6&6&6\\ 1&4&5&6&6&6&6\\ 1&4&5&6&6&6&6\\ 1&4&5&6&6&6&6\\ 1&4&5&6&6&6&6\\ 1&4&5&6&6&6$ metacells Hhon OG\_9059 Hhon\_g02774.t1 IQ\_motif\_containing\_GTPase\_activating\_protein\_1 metacells HoiH23 OG\_9059 HoiH23\_PIH23\_006222-RA IQ\_motif\_containing\_GTPase\_activating\_protein\_1 10 metacells

Tadh OG\_10208 Tadh\_TriadT30592 solute\_carrier\_family\_37\_member\_2 10 metacells Tadh OG\_10208 Tadh\_TriadT60235 solute\_carrier\_family\_37\_member\_2 10 metacells TrH2 OG\_10208 TrH2\_TrispH2\_000796-RA solute\_carrier\_family\_37\_member\_2 metacells Hhon OG\_10208 Hhon\_g06341.t1 solute\_carrier\_family\_37\_member\_2 10 metacells HoiH23 OG\_10208 HoiH23\_PIH23\_003865-RA solute\_carrier\_family\_37\_member\_2 metacells

# $solute\_carrier\_organic\_anion\_transporter\_family\_member\_4A1$ Tadh | no data TrH2 OG\_10223 TrH2\_TrispH2\_006464-RA solute\_carrier\_organic\_anion\_transporter\_family\_member\_4A1 10 metacells Hhon OG\_10223 Hhon\_g06192.t1 solute\_carrier\_organic\_anion\_transporter\_family\_member\_4A1 -4 + 7055 + 6052 + 60metacells HoiH23 OG\_10223 HoiH23\_PIH23\_001217-RA $solute\_carrier\_organic\_anion\_transporter\_family\_member\_4A1$ 10 metacells

Tadh OG\_10352 Tadh\_TriadT52793 neuroligin\_4\_Y\_linked,acetylcholinesterase\_Cartwright\_blood\_group,butyrylcholinestera metacells Tadh OG\_10352 Tadh\_TriadT19080  $neuroligin\_4\_Y\_linked, acetylcholinesterase\_Cartwright\_blood\_group, butyrylcholinesterase\_Cartwright\_blood\_group, butyrylcholinesterase\_Cartwright\_blood\_group$ metacells TrH2 OG\_10352 TrH2\_TrispH2\_009213-RA neuroligin\_4\_Y\_linked,acetylcholinesterase\_Cartwright\_blood\_group,butyrylcholinestera  $\begin{smallmatrix} 1&4&5&5&5&5&5\\1&4&5&5&5&5&$ metacells TrH2 OG\_10352 TrH2\_TrispH2\_009214-RA neuroligin\_4\_Y\_linked,acetylcholinesterase\_Cartwright\_blood\_group,butyrylcholinestera metacells Hhon OG\_10352 Hhon\_g03040.t1 neuroligin\_4\_Y\_linked,acetylcholinesterase\_Cartwright\_blood\_group,butyrylcholinestera Hhon OG\_10352 Hhon\_g11566.t1 neuroligin\_4\_Y\_linked,acetylcholinesterase\_Cartwright\_blood\_group,butyrylcholinestera metacells neuroligin\_4\_Y\_linked,acetylcholinesterase\_Cartwright\_blood\_group,butyrylcholinestera HoiH23 | no data 0