Figure 8- figure supplement 1

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| **Subgroup** | **Proposed Anatomical Bias** | ***Slc17a8-cre; Pet1-Flpe***  **Histology** (Fig 3) | **Immunostaining**  (Fig 3 - supplement 1 and 2,  and Fig 4- supplement 2) | **Manual scRNAseq and Histology** (Fig 3 and Fig 4) | **Previous Publications**  Ren, et al. 2019¹, Huang, et al. 2019² Okaty, et al. 2015³ | **Allen Brain Atlas In-Situ** |
| 1 | Rostral (B7) Ventrolateral | *Slc17a8-cre; Pet1-Flpe*  Subtractive Histology |  |  | *Tph2-Npas1* in-situ¹ | *Gabre* and *Gabrq* |
| 2 | Rostral (B7) Dorsolateral and Dorsomedial | PAX5 and SATB2 | *Slc6a4-cre; Pet1-Flpe* dlDR and dmDR scRNAseq | *Tph2/Slc6a4-Trh* in-situ¹,² 5-HT-I and II mapping² | *Trh* and *Crym* |
| 3 | Rostral (B7) Dorsomedial | *Slc6a4-cre; Pet1-Flpe*  dmDR scRNAseq | 5-HT-II mapping² | *Kit* |
| 4 | Rostral (B7) Dorsomedial |  |  | *Prkcq* |
| 5 | Rostral (B7) Dorsomedial | PAX5 |  | *Tph2-Ret* in-situ¹ *Slc6a4-Pdyn* in-situ² 5-HT-III mapping² | *Pdyn* |
| 6 | Rostral (B7) Dorsomedial | *Npy2r-cre; Pet1-Flpe* rDR scRNAseq and histology† | *Tph2-Ret* in-situ¹ *Tph2-Gad1* in-situ¹ 5-HT-III mapping² | *Amigo2* |
| 7 | Caudal (B6\*) Ventromedial | *Slc17a8-cre; Pet1-Flpe*  Intersectional Histology | VGLUT3 and TPH2 NR2F2 | *Npy2r-cre; Pet1-Flpe* cDR scRNAseq and histology |  |  |
| 8 | Caudal (B6\*) Ventromedial | *Slc6a4-cre; Pet1-Flpe* cDR scRNAseq and histology |  | *Rorb* |
| 9 | Rostral (B7) Ventromedial |  |  | *Nos1* |
| 10 | Rostral (B7) Ventromedial | VGLUT3 and TPH2 | *Slc6a4-cre; Pet1-Flpe*  vmDR scRNAseq | 5-HT-IV mapping² |  |
| 11 | Rostral (B7) Ventromedial | *Rspo3, Foxa1, Proser2 Syt2* expression highest in  *Slc6a4-cre; Pet1-Flpe* vmDR†† | *Tph2-Syt2* in-situ¹ | *Foxa1, Tpbg,* and *Pvrl3* |
| 12 | Caudal (B6) Dorsomedial | VGLUT3 and TPH2 NR2F2 | *P2ry1-cre; Pet1-Flpe* cDR scRNAseq and histology | *Tph2-Met* in-situ¹ 5-HT-V mapping² MET immuno³ | *Zeb2* |
| 13 | Dorsomedial and Medial | VGLUT3 and TPH2  TPH2/*Tph2* immuno/in situ | *Slc6a4-cre; Pet1-Flpe*  subtractive histology |  |  |
| 14 | Distributed |  |  | *Gpr101* |