|  | $\begin{aligned} & \text { - } \\ & \text { - } \\ & \text { 万 } \\ & 3 \\ & 3 \end{aligned}$ | $\stackrel{\ddots}{\dashv}$ | $$ | $\begin{aligned} & 3 \\ & \pi \\ & 3 \\ & 3 \\ & 3 \end{aligned}$ | $\stackrel{3}{3}$ | $\xrightarrow{3}$ | $\begin{aligned} & 0 \\ & \underset{C}{C} \\ & -1 \\ & \frac{0}{D} \\ & 3 \end{aligned}$ | $\begin{aligned} & \stackrel{\rightharpoonup}{0} \\ & \underset{-}{C} \\ & \stackrel{\omega}{\omega} \end{aligned}$ | $\begin{aligned} & \overline{0} \\ & \underset{-}{C} \\ & \stackrel{\rightharpoonup}{\sim} \end{aligned}$ | $$ | $\stackrel{\vdots}{\vdots}$ | $\begin{aligned} & \vdots \\ & 3 \\ & 3 \\ & 3 \end{aligned}$ | $\stackrel{3}{\Pi}$ | $\begin{aligned} & \stackrel{\dashv}{\dashv} \\ & \stackrel{\text { ® }}{-} \end{aligned}$ | $\begin{aligned} & \vdots \\ & \stackrel{\zeta}{\Xi} \end{aligned}$ | D ¢ -1 ® |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PPUT (1) |  | 0.79 | 0.43 | 0.49 | 0.15 | 0.28 | 0.36 | 0.41 | 0.27 | X | 0.21 | X | $X$ | 0.26 | X | $X$ |  |
| VM (1) | 0.79 |  | 0.38 | 0.47 | $X$ | 0.31 | 0.35 | 0.31 | 0.22 | X | 0.2 | X | $X$ | 0.24 | X | $X$ | 0.8 |
| IT (1) | 0.43 | 0.38 |  | 0.72 | 0.21 | 0.21 | 0.31 | 0.3 | 0.23 | 0.23 | 0.35 | 0.24 | 0.27 | 0.46 | 0.37 | 0.17 |  |
| MF (1) | 0.49 | 0.47 | 0.72 |  | 0.22 | 0.34 | 0.44 | 0.38 | 0.25 | 0.18 | 0.57 | 0.42 | 0.4 | 0.43 | 0.32 | 0.25 |  |
| VM (PAM) | 0.15 | $X$ | 0.21 | 0.22 |  | 0.85 | 0.77 | 0.64 | 0.62 | 0.63 | 0.34 | 0.28 | 0.3 | 0.29 | 0.24 | 0.25 |  |
| VM (3) | 0.28 | 0.31 | 0.21 | 0.34 | 0.85 |  | 0.91 | 0.66 | 0.62 | 0.51 | 0.49 | 0.37 | 0.31 | 0.39 | 0.25 | 0.26 |  |
| VM (2) | 0.36 | 0.35 | 0.31 | 0.44 | 0.77 | 0.91 |  | 0.71 | 0.58 | 0.47 | 0.55 | 0.38 | 0.3 | 0.44 | 0.24 | 0.24 | 0.2 |
| PPUT (2) | 0.41 | 0.31 | 0.3 | 0.38 | 0.64 | 0.66 | 0.71 |  | 0.81 | 0.69 | 0.43 | 0.32 | 0.3 | 0.45 | 0.32 | 0.31 |  |
| PPUT (3) | 0.27 | 0.22 | 0.23 | 0.25 | 0.62 | 0.62 | 0.58 | 0.81 |  | 0.88 | 0.28 | 0.2 | 0.22 | 0.35 | 0.26 | 0.27 |  |
| PPUT (PAM) | X | $X$ | 0.23 | 0.18 | 0.63 | 0.51 | 0.47 | 0.69 | 0.88 |  | 0.21 | 0.15 | 0.21 | 0.26 | 0.23 | 0.24 | -0.2 |
| MF (2) | 0.21 | 0.2 | 0.35 | 0.57 | 0.34 | 0.49 | 0.55 | 0.43 | 0.28 | 0.21 |  | 0.84 | 0.73 | 0.58 | 0.48 | 0.48 |  |
| MF (3) | $X$ | $X$ | 0.24 | 0.42 | 0.28 | 0.37 | 0.38 | 0.32 | 0.2 | 0.15 | 0.84 |  | 0.89 | 0.42 | 0.55 | 0.56 |  |
| MF (PAM) | X | $X$ | 0.27 | 0.4 | 0.3 | 0.31 | 0.3 | 0.3 | 0.22 | 0.21 | 0.73 | 0.89 |  | 0.45 | 0.61 | 0.66 | -0.6 |
| IT (2) | 0.26 | 0.24 | 0.46 | 0.43 | 0.29 | 0.39 | 0.44 | 0.45 | 0.35 | 0.26 | 0.58 | 0.42 | 0.45 |  | 0.67 | 0.58 |  |
| IT (3) | $X$ | X | 0.37 | 0.32 | 0.24 | 0.25 | 0.24 | 0.32 | 0.26 | 0.23 | 0.48 | 0.55 | 0.61 | 0.67 |  | 0.87 | -0.8 |
| IT (PAM) | X | X | 0.17 | 0.25 | 0.25 | 0.26 | 0.24 | 0.31 | 0.27 | 0.24 | 0.48 | 0.56 | 0.66 | 0.58 | 0.87 |  |  |

Supplementary Figure 1.

Histograms of midfrontal cortex (MF) PAM distribution

b


Supplementary Figure 2.


Supplementary Figure 3.

b
Protein (dorsolateral prefrontal cortex)

Sorted by MF PAM association strength


Gene expression module

## Supplementary Figure 4.


b


C


Supplementary Figure 5.

