Glutamate metabolism All SiRCle Clusters SLC38A1 SLC1A3 SLC7A11 **GLUL** GOT1 **OPLAH NAGS** Condition SLC7A7 BAP1 PBRM1 **GPT** VAE Integrated Rank (Mean) GPT2 -1 SLC1A7 0 SLC38A5 **SLC25A13** ALDH4A1 SLC6A13 SLC6A1 SLC3A2 GLUD1 **GLS** ACY1 GOT2

VAE integrated value