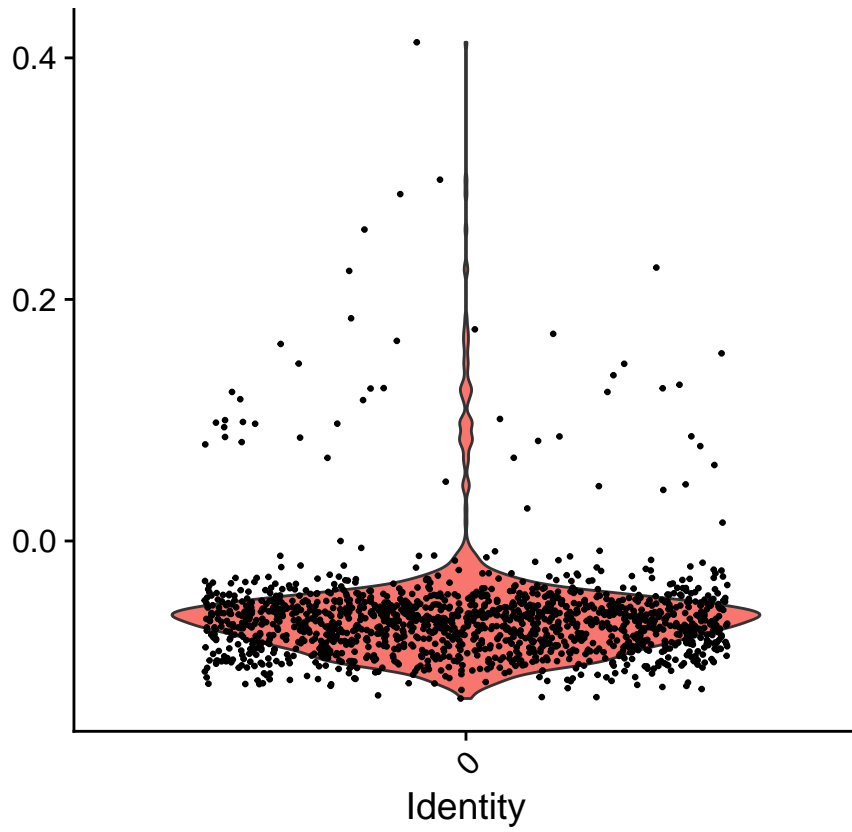


Cell annotation scoring process.

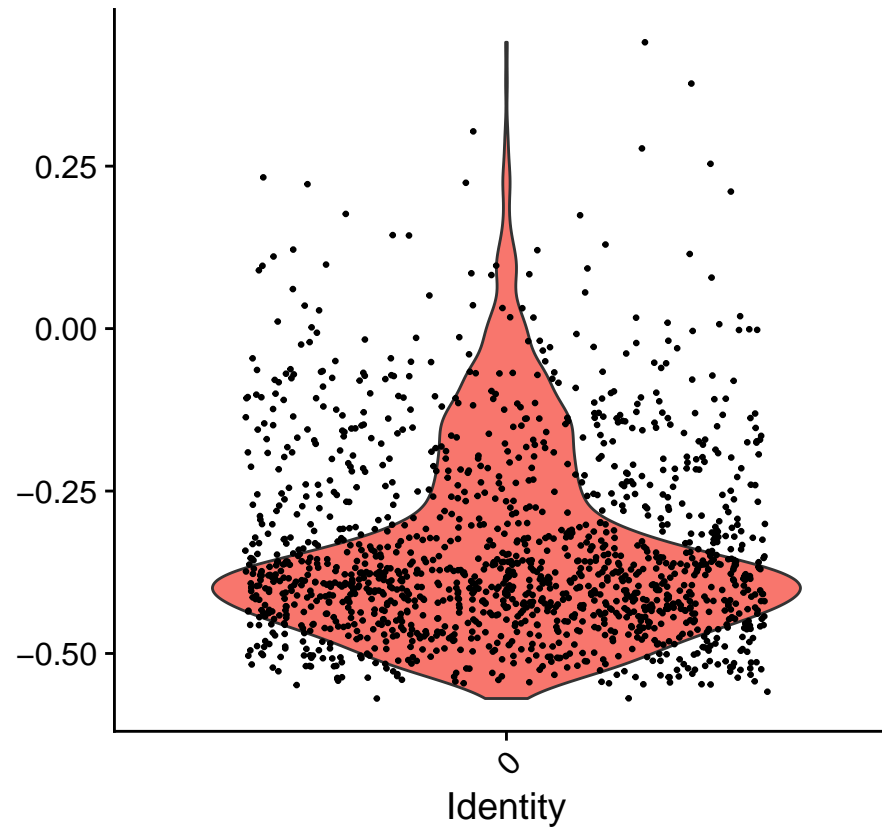
| | Stage | Cell_Count |
|---|--------------|-------------------|
| 1 | CMP_score1 | 38 |
| 2 | Diff_score1 | 1359 |
| 3 | GMP_score1 | 55 |
| 4 | HSC_score1 | 2 |

Cluster 0 – Score Violin Plot

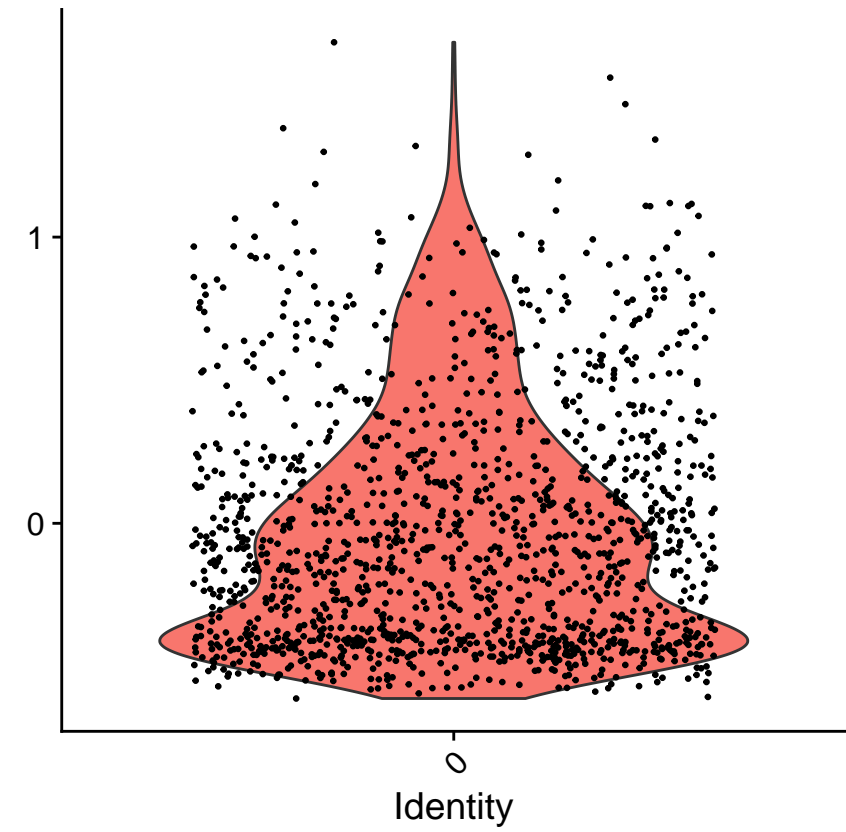
HSC_score1



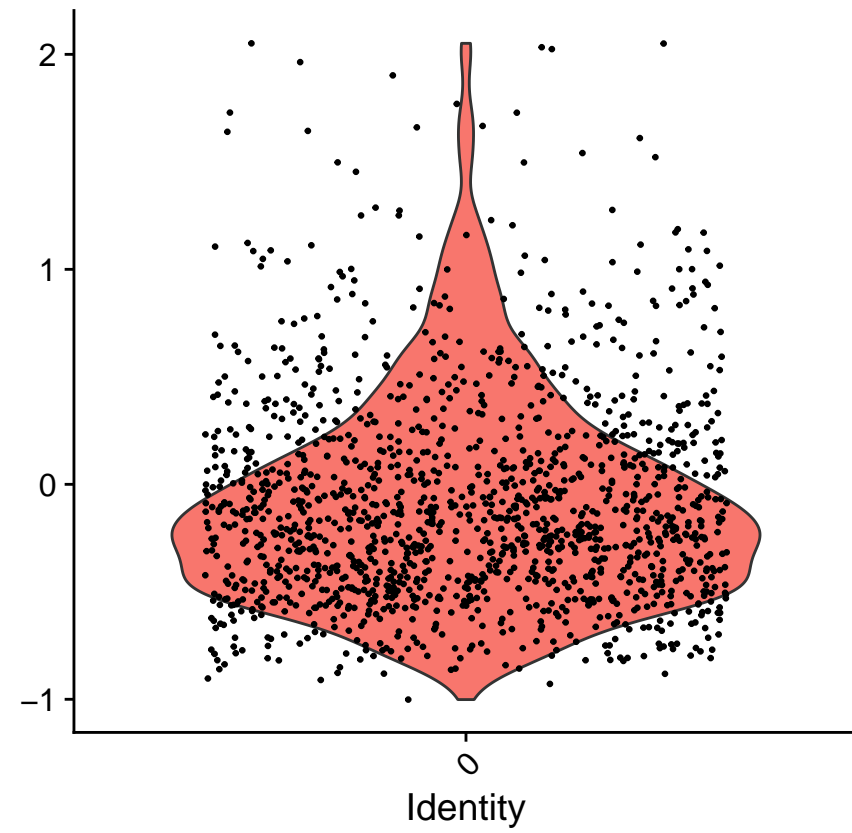
MPP_score1



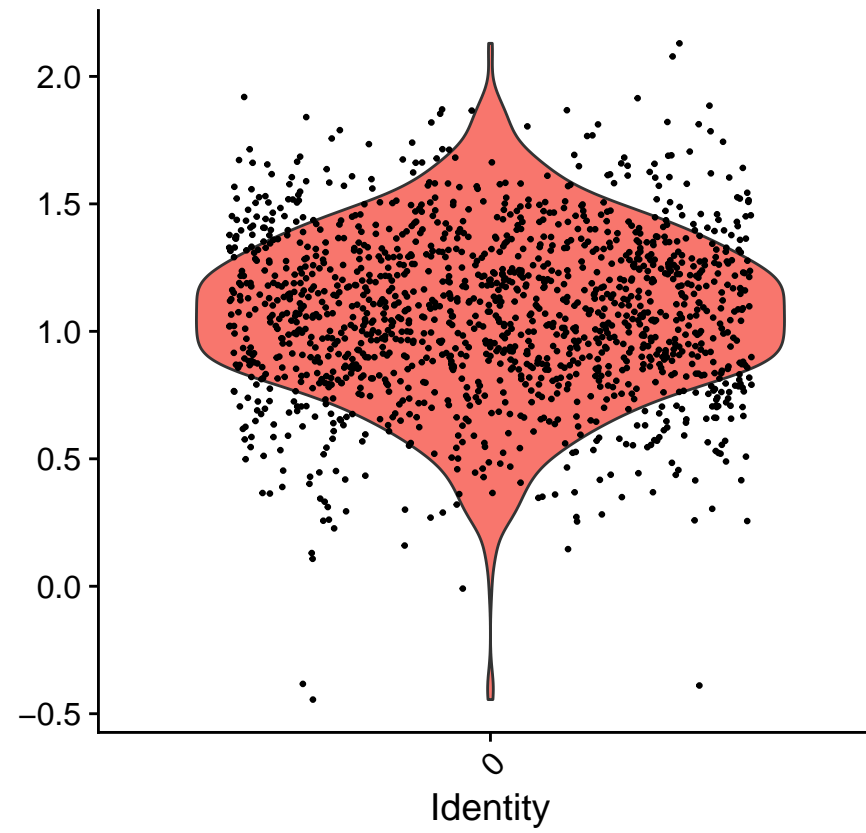
CMP_score1



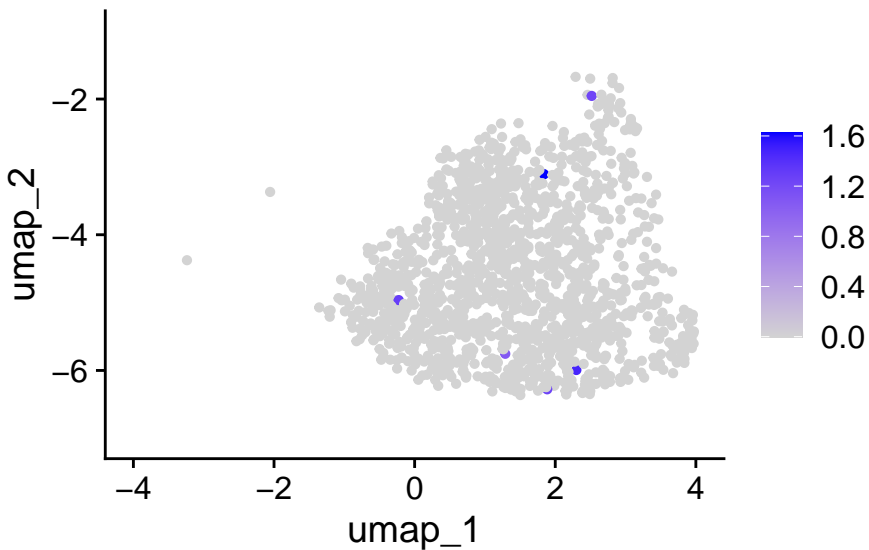
GMP_score1



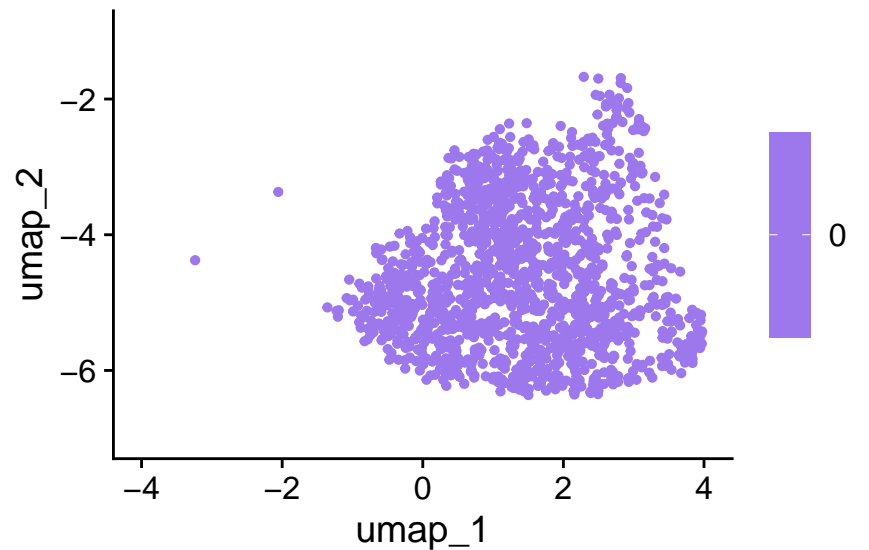
Diff_score1



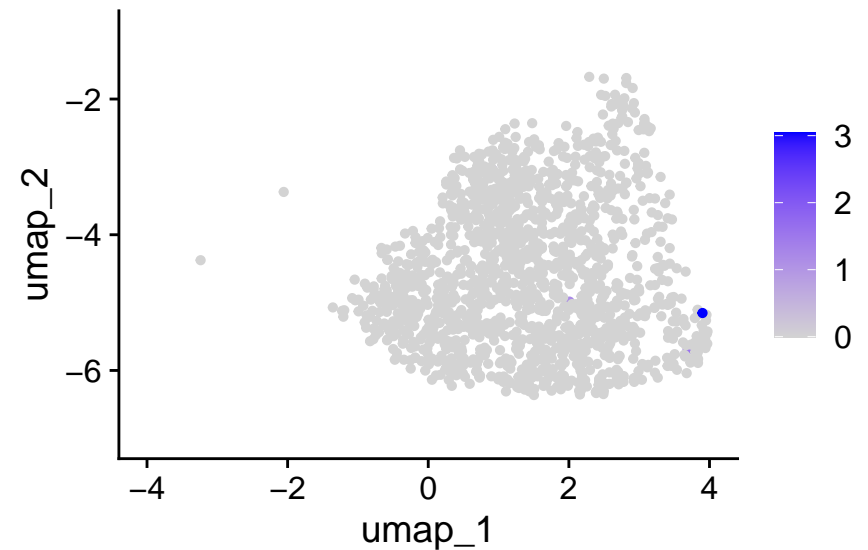
HSC: CD34



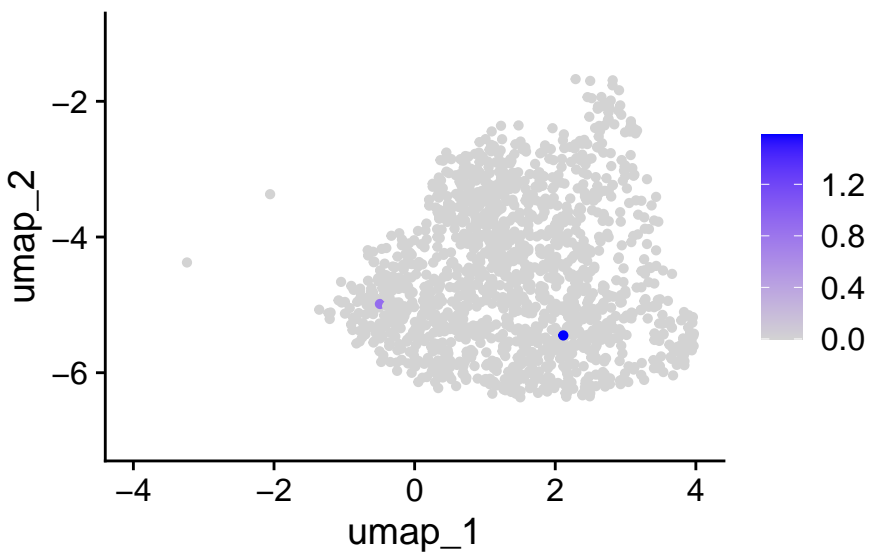
HSC: AVP (0)



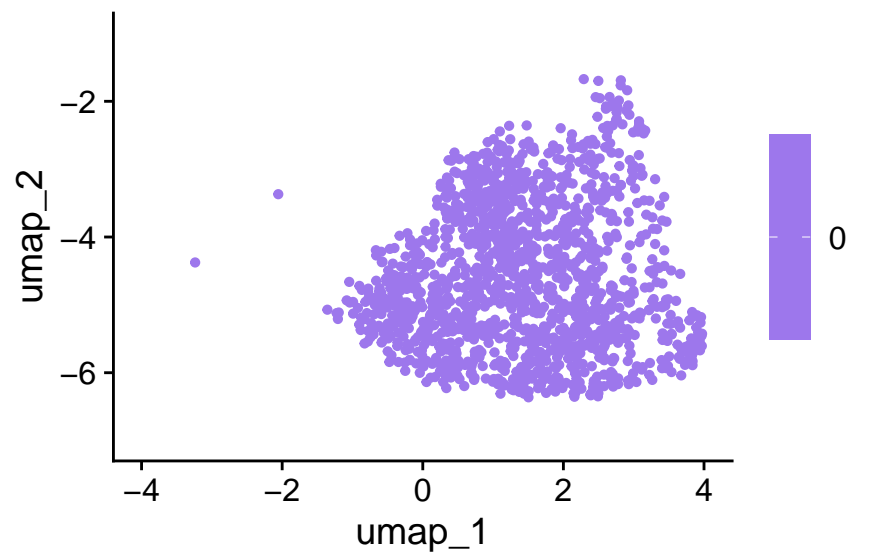
HSC: PROM1



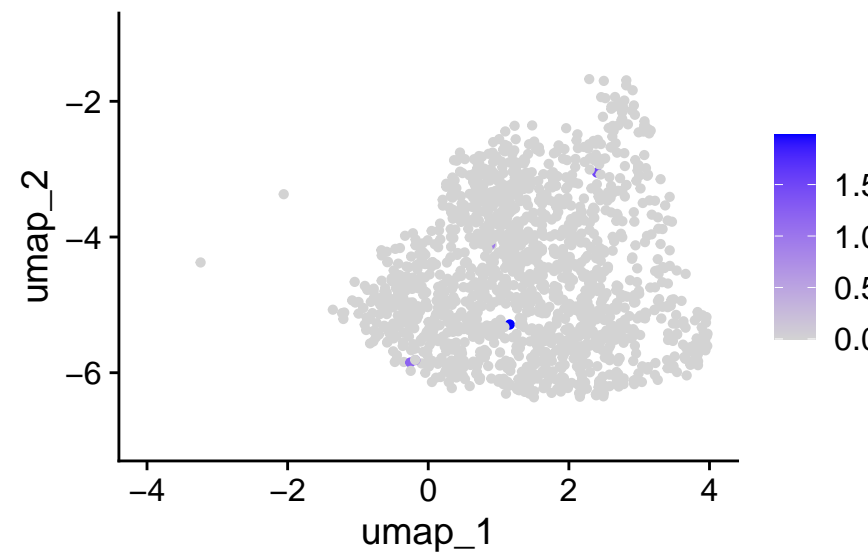
HSC: MEIS1



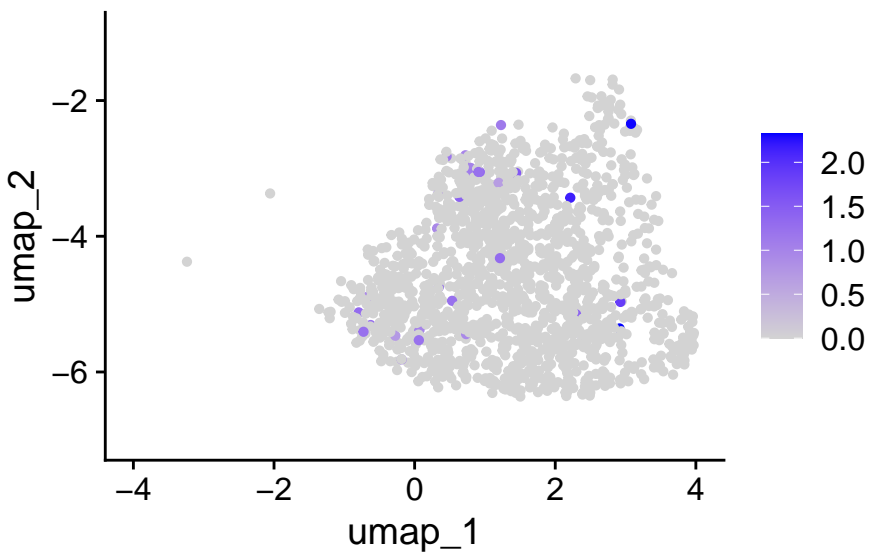
HSC: GATA2 (0)



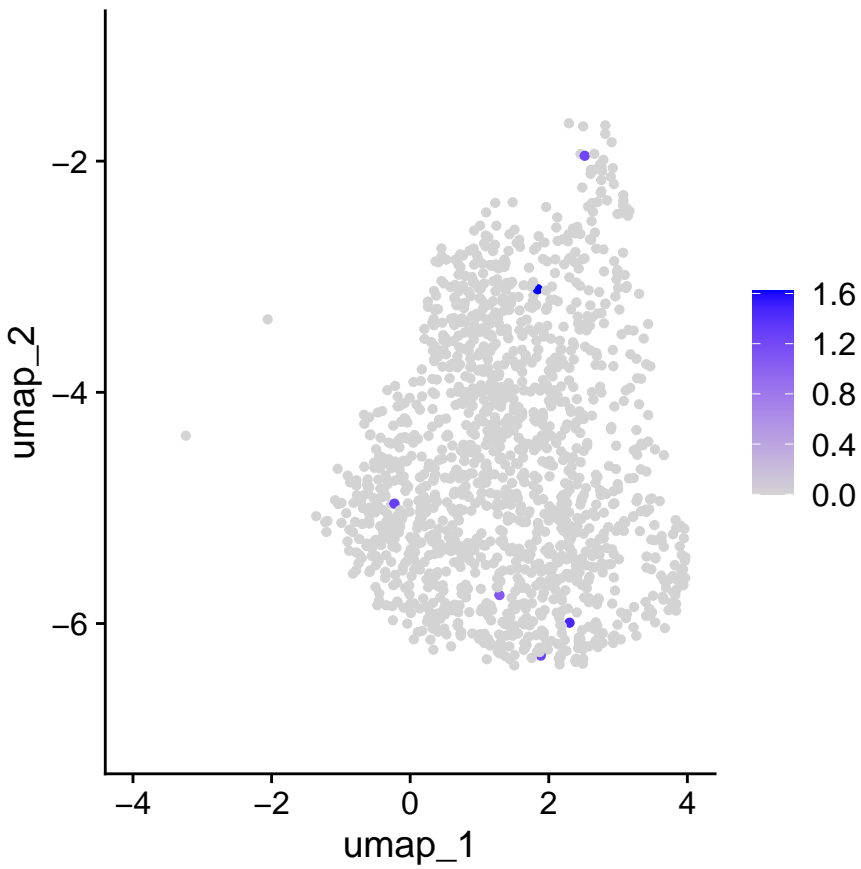
HSC: HOXA9



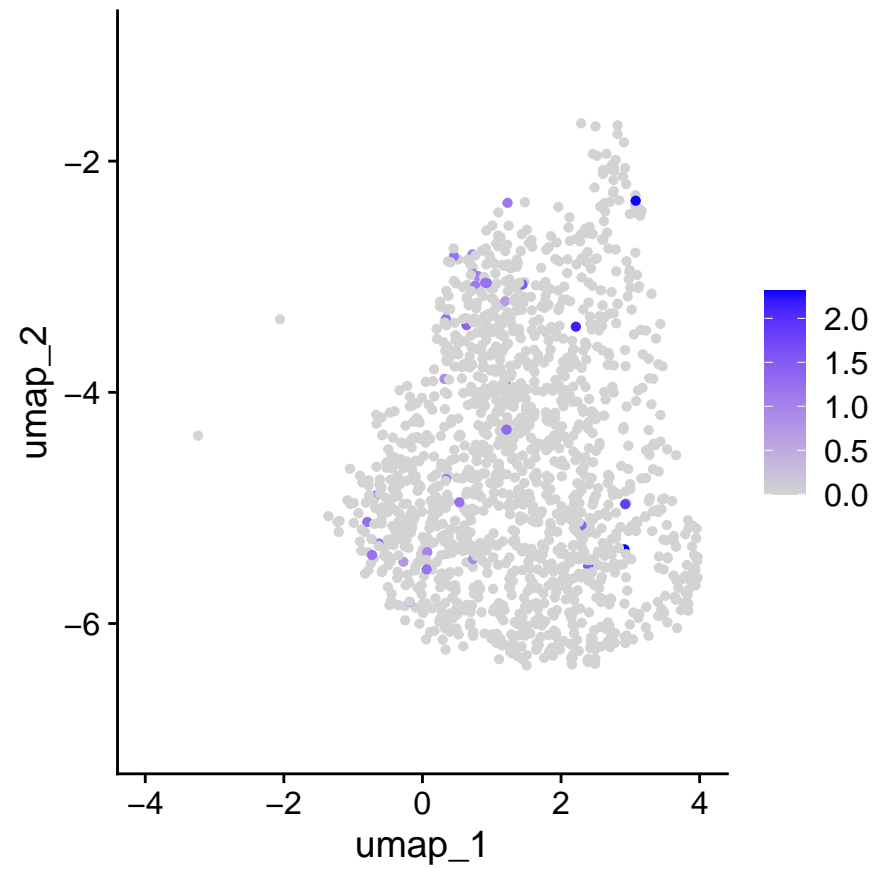
HSC: FLT3



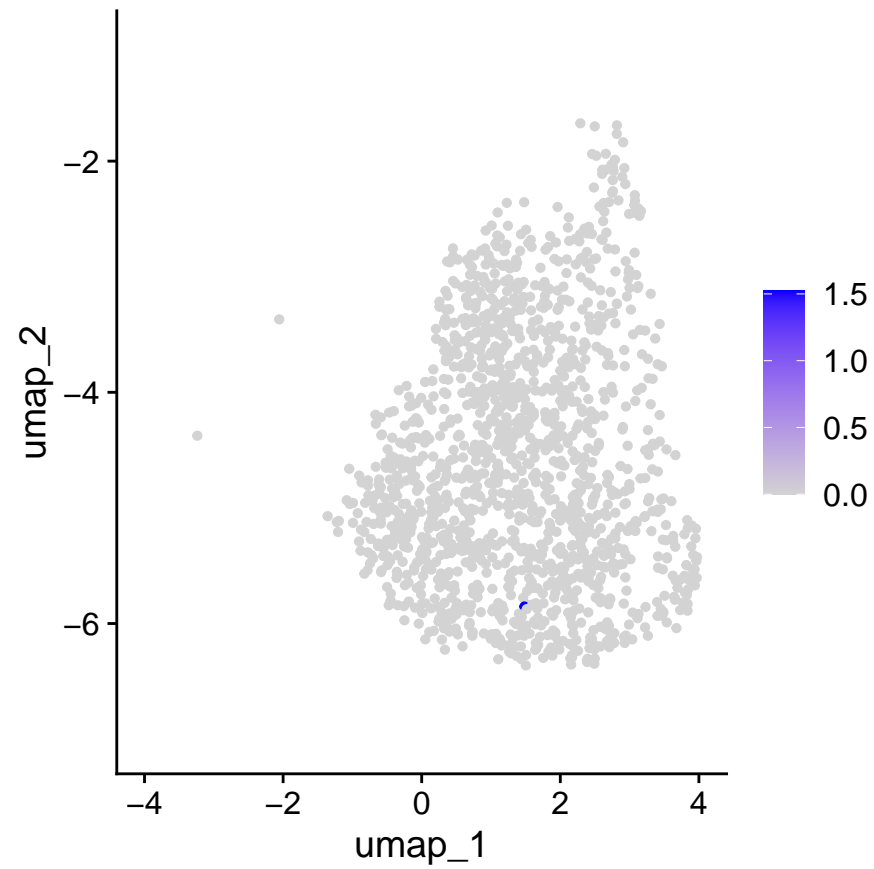
MPP: CD34



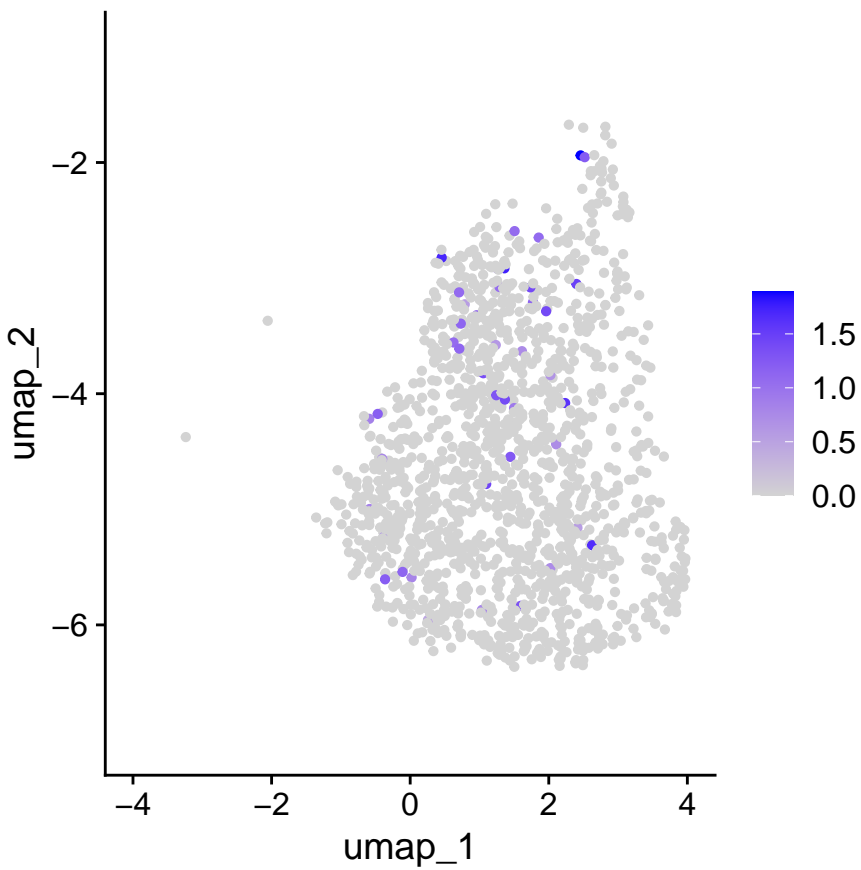
MPP: FLT3



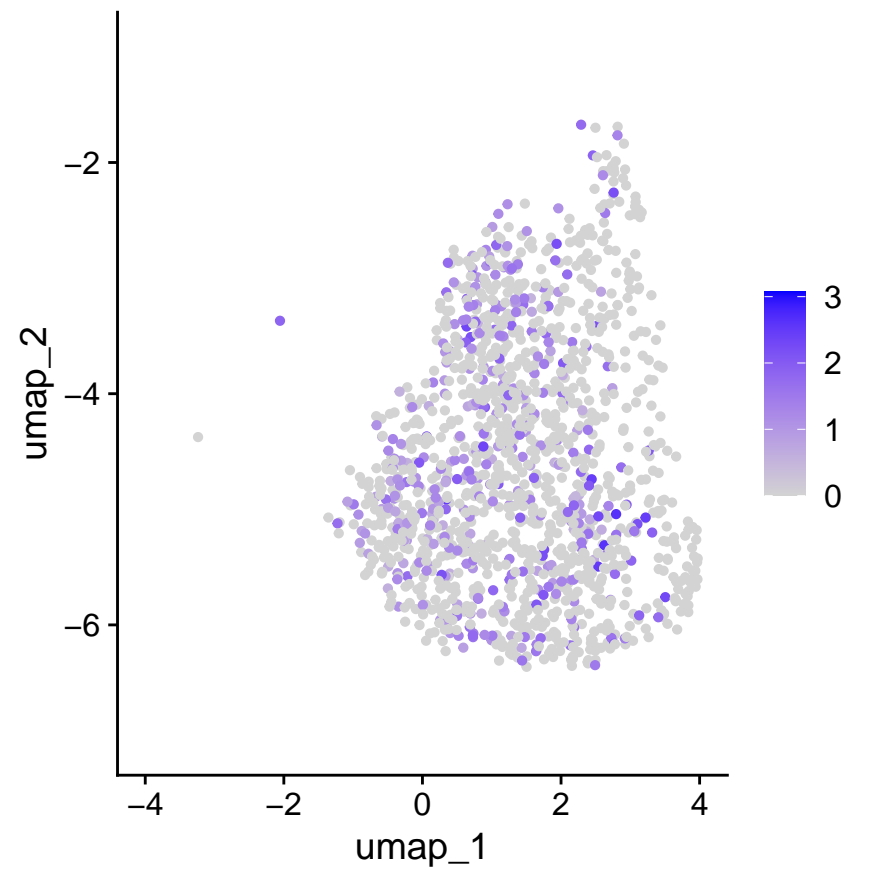
MPP: KIT



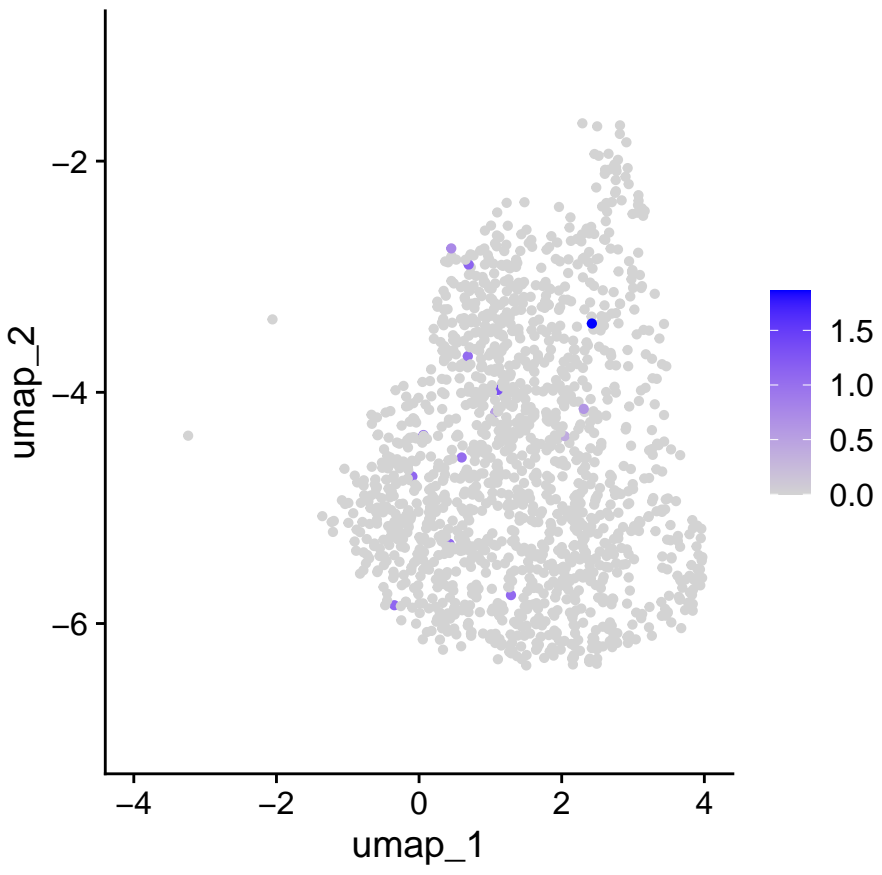
MPP: CD38



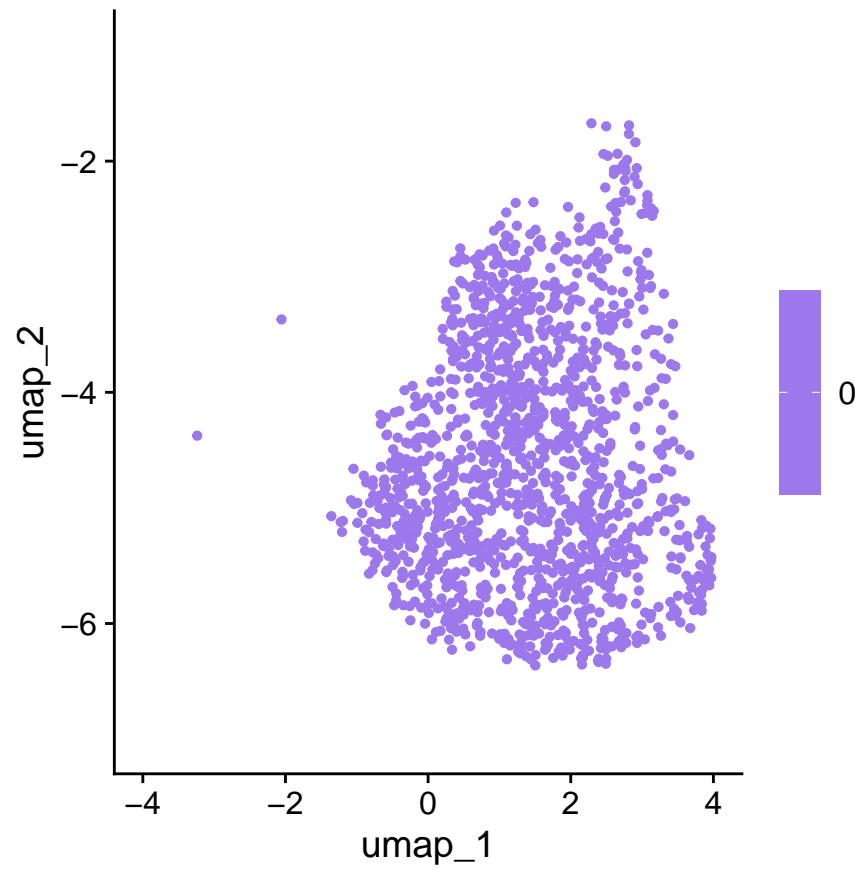
MPP: SOX4



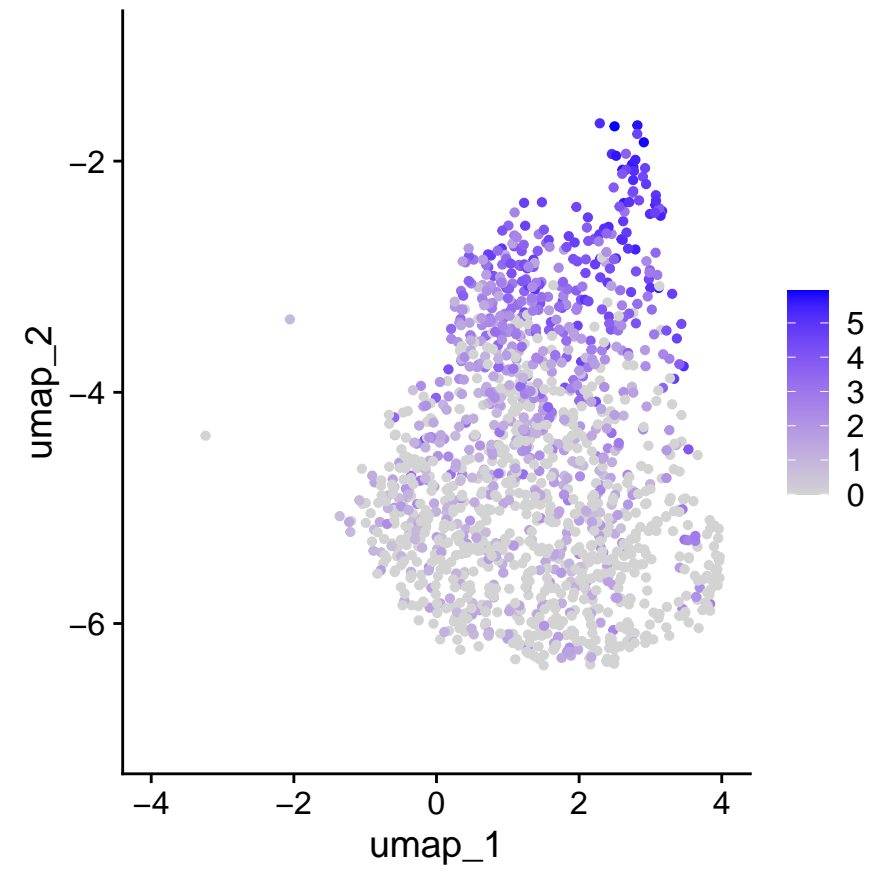
CMP: IL3RA



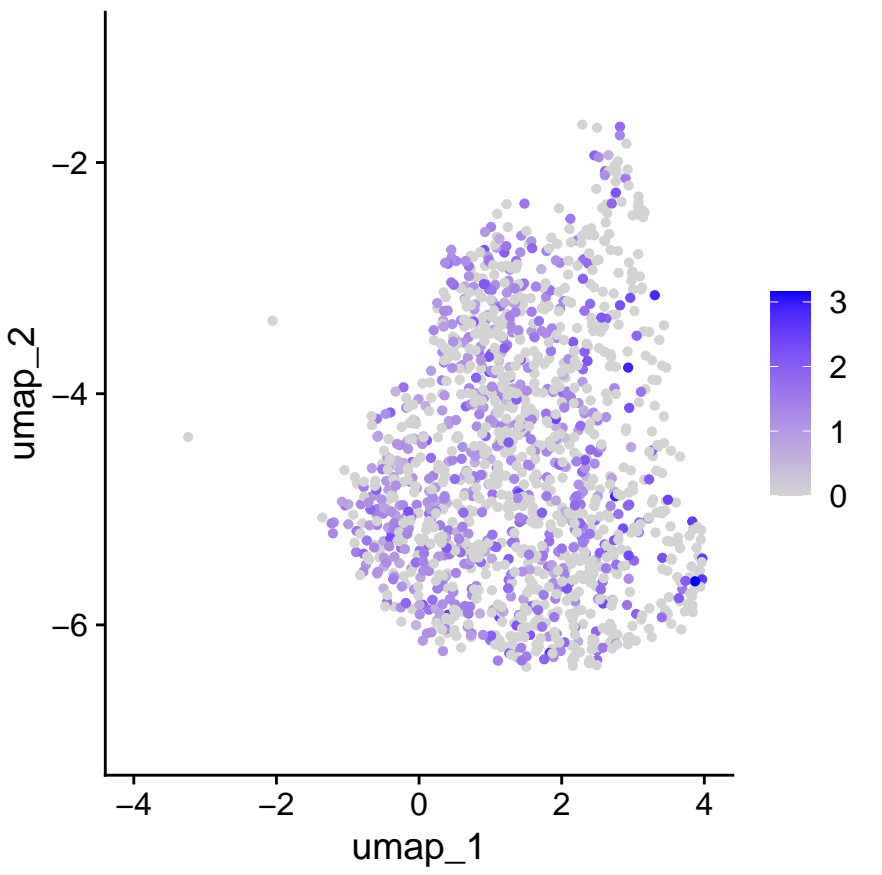
CMP: GATA1 (0)



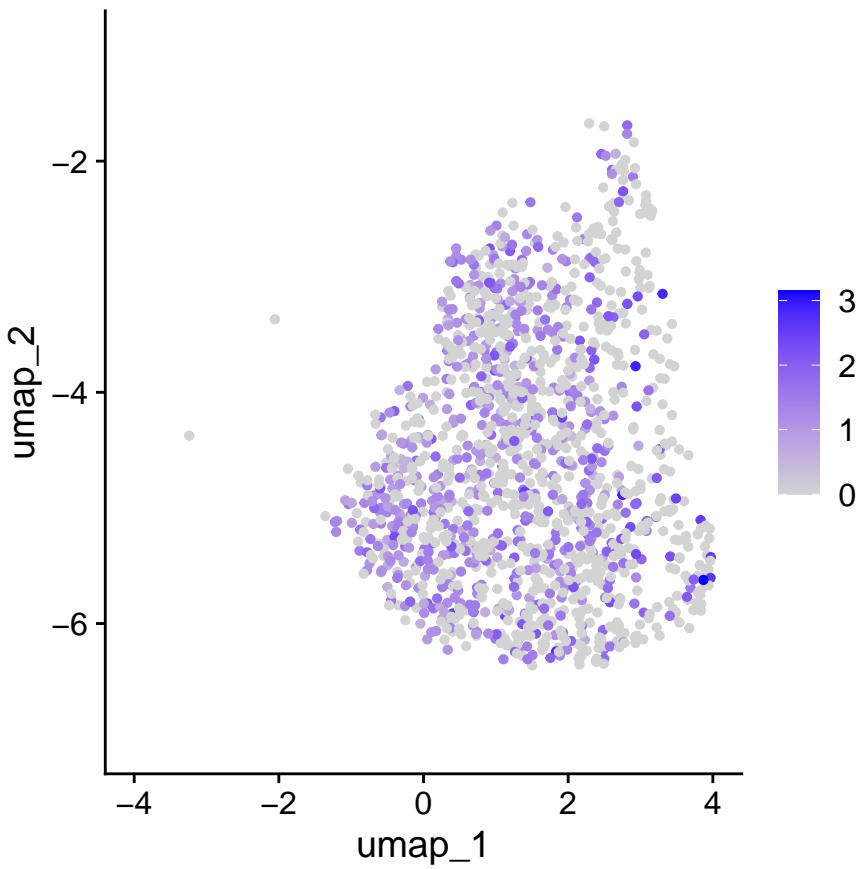
CMP: MPO



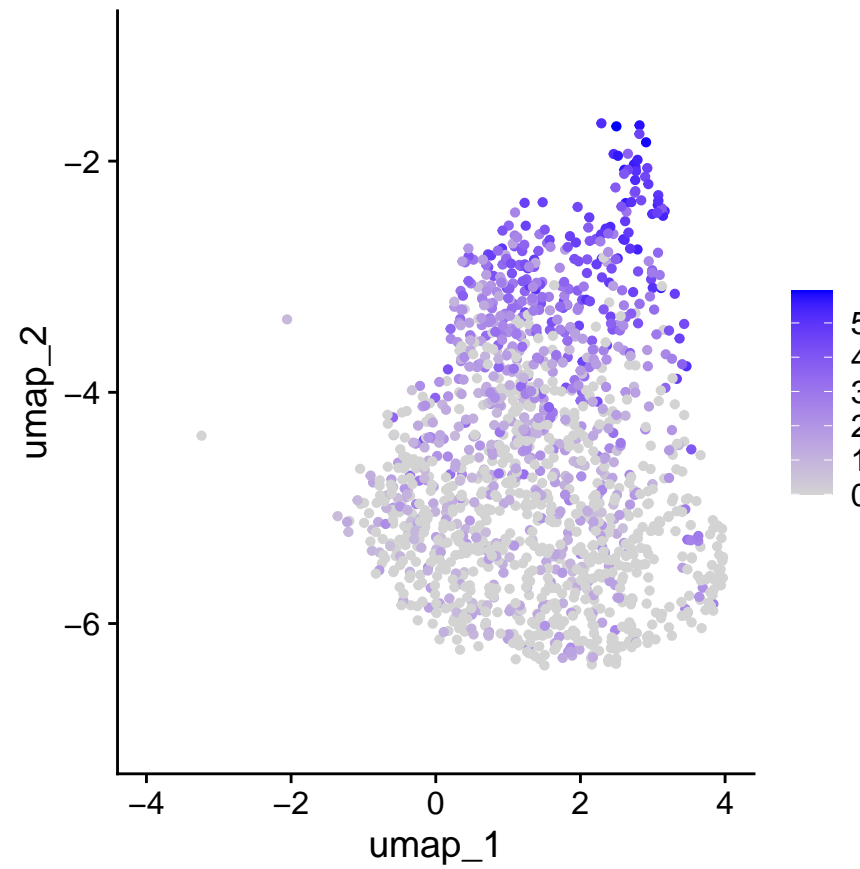
CMP: CEBPA



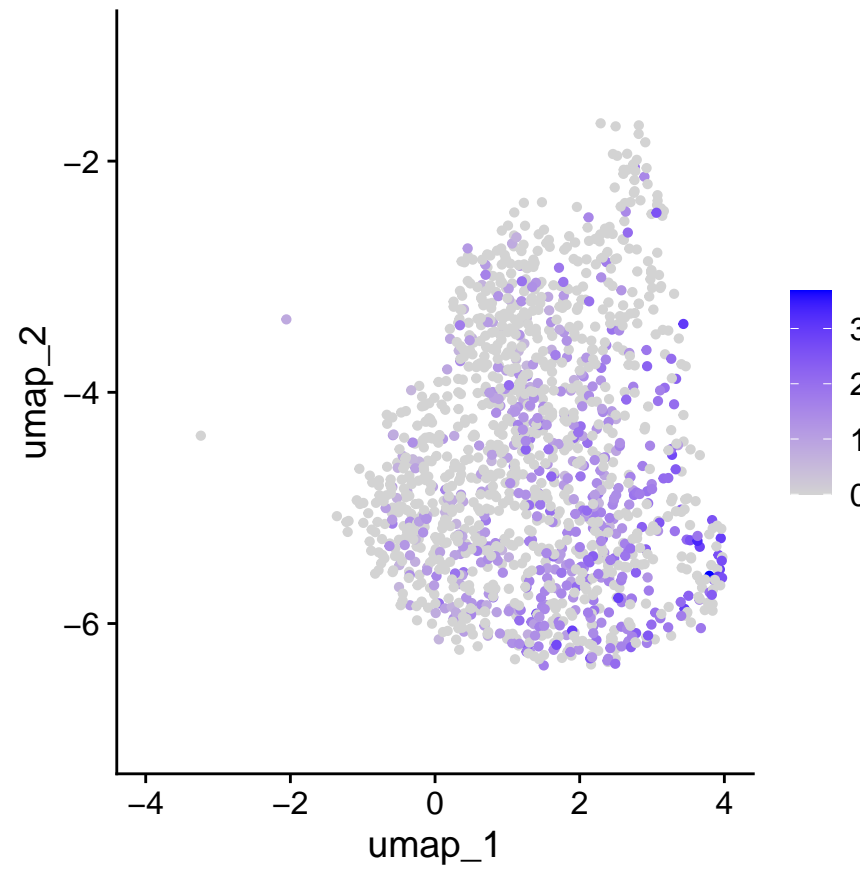
GMP: CEBPA



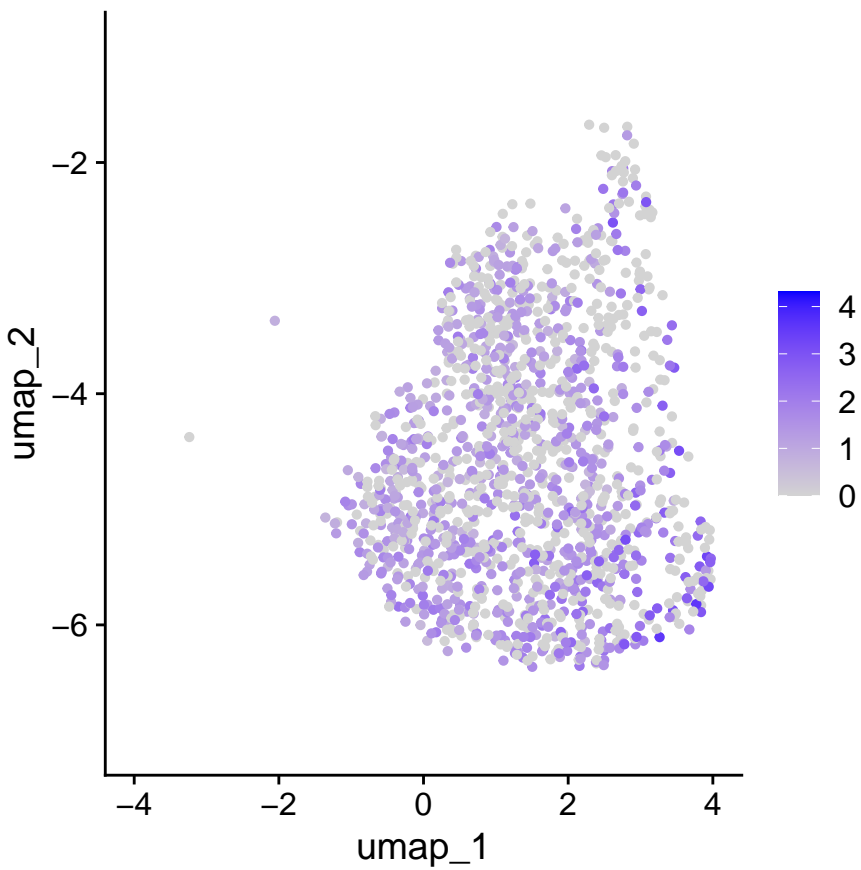
GMP: MPO



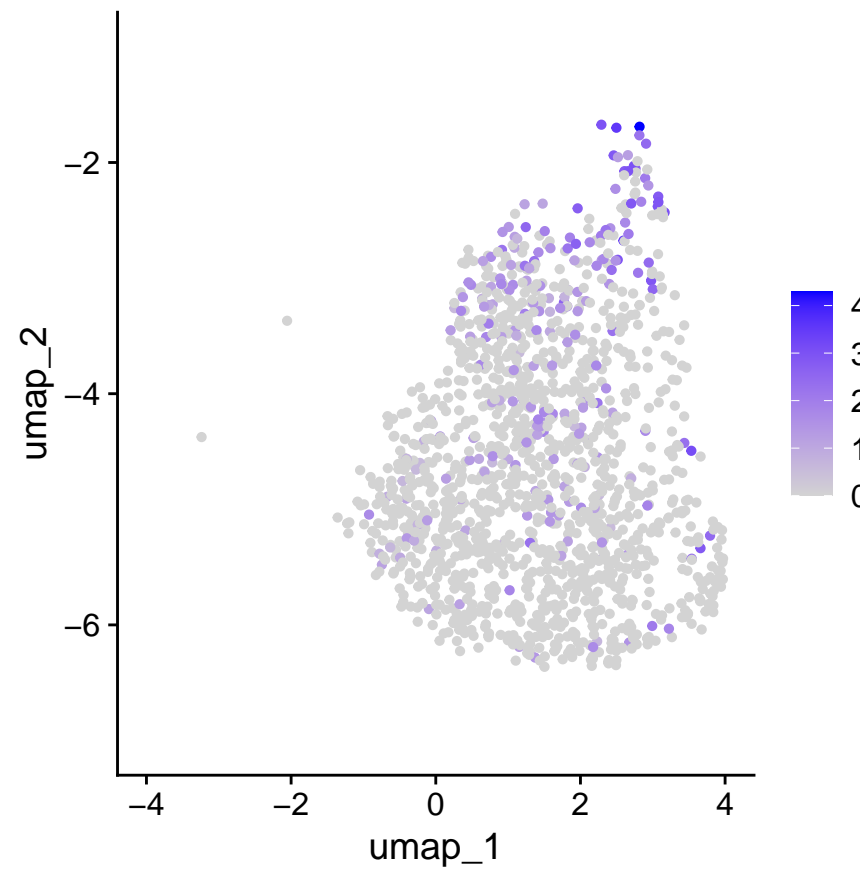
GMP: ITGAM



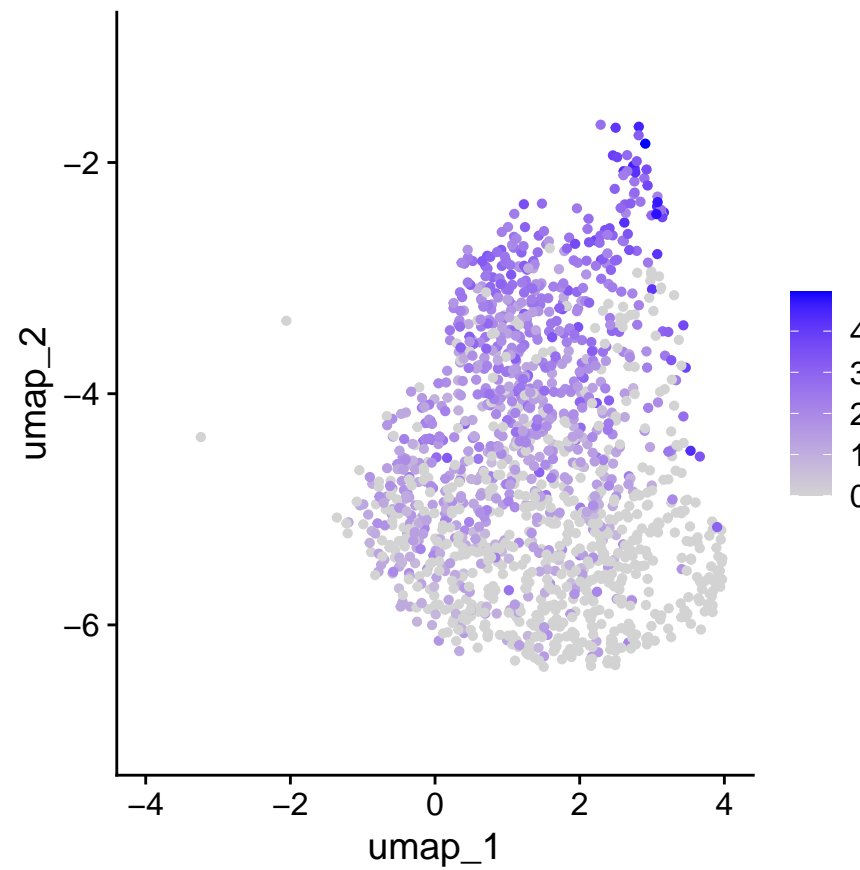
GMP: CSF3R



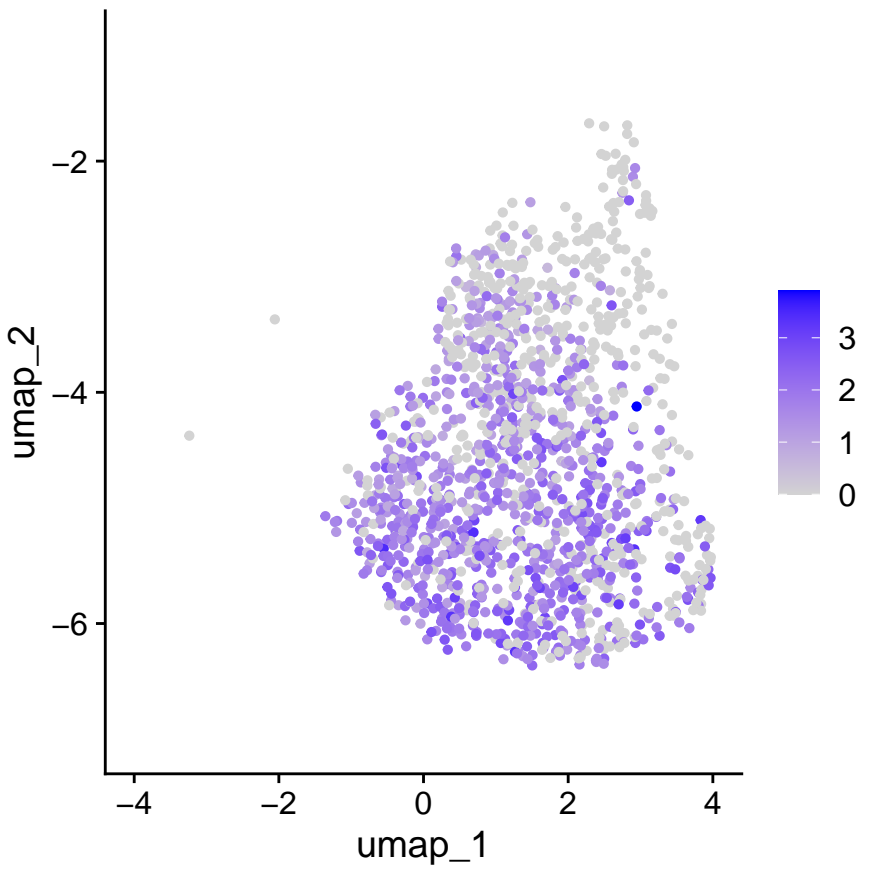
GMP: ELANE



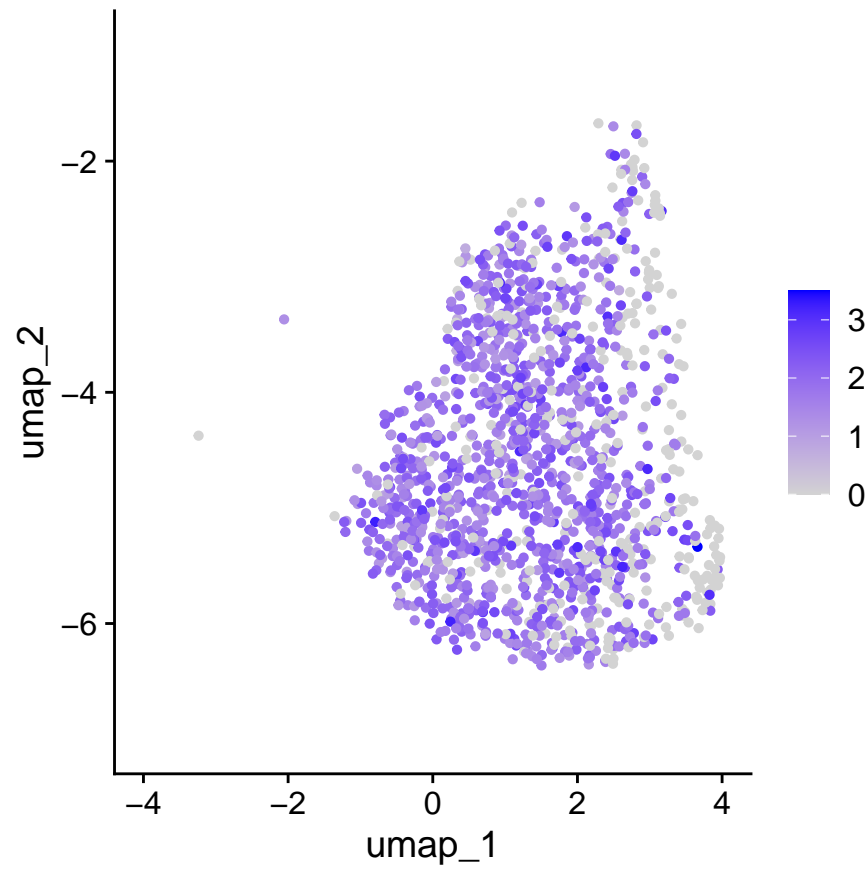
GMP: AZU1



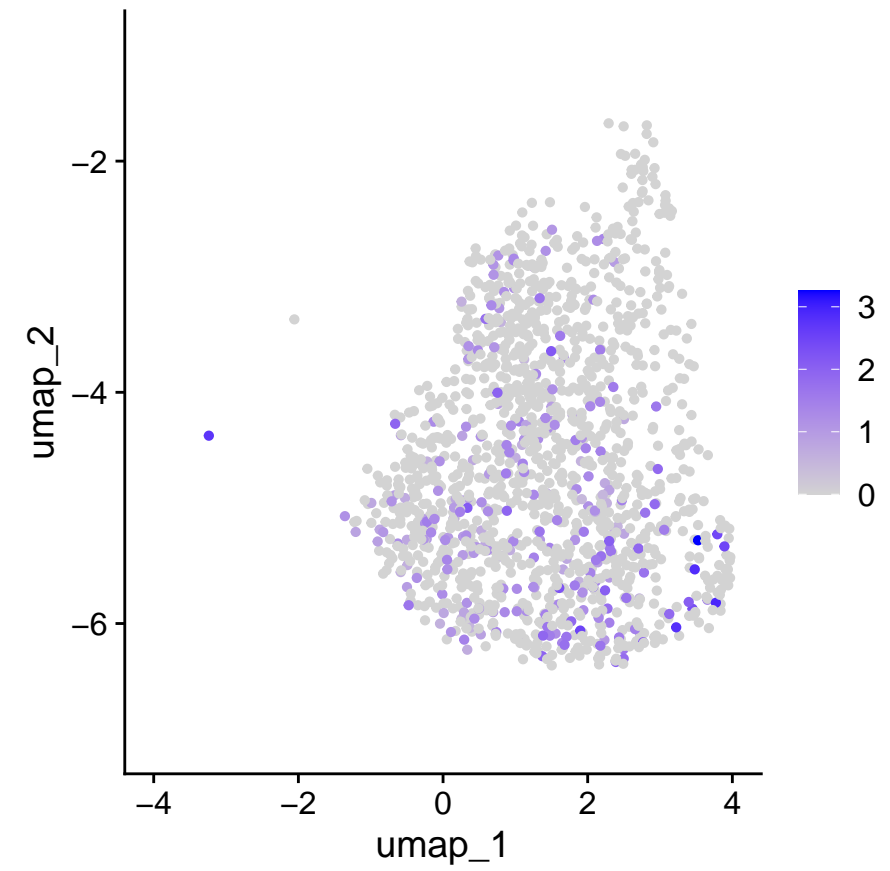
Diff: CD14



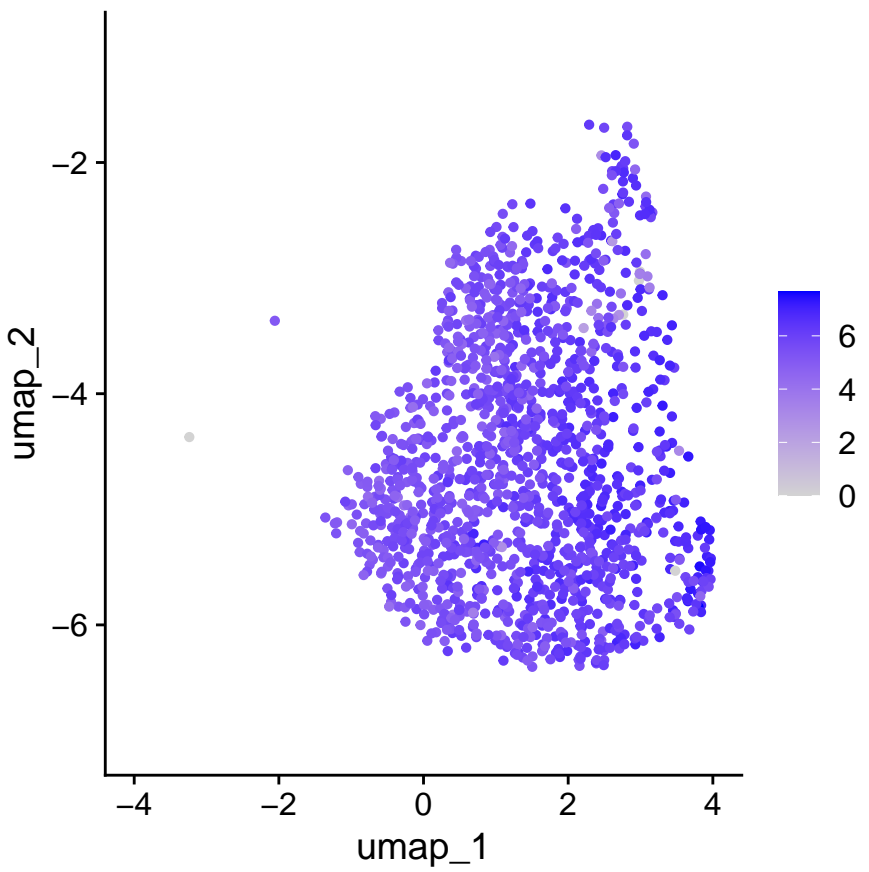
Diff: CD68



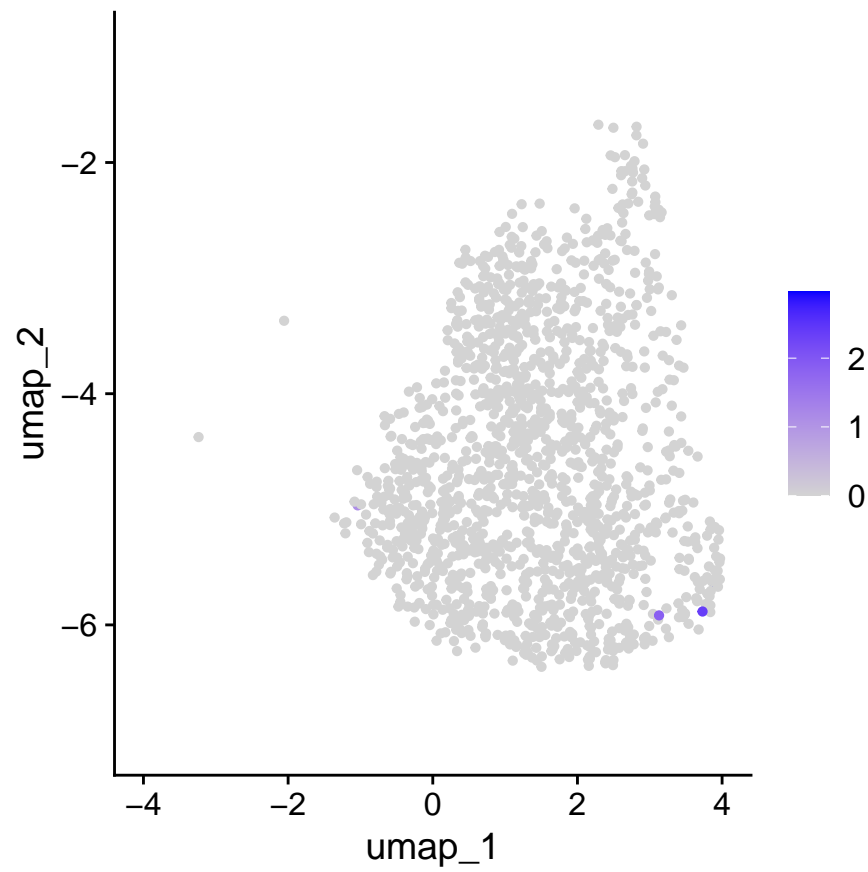
Diff: ITGAX



Diff: S100A9



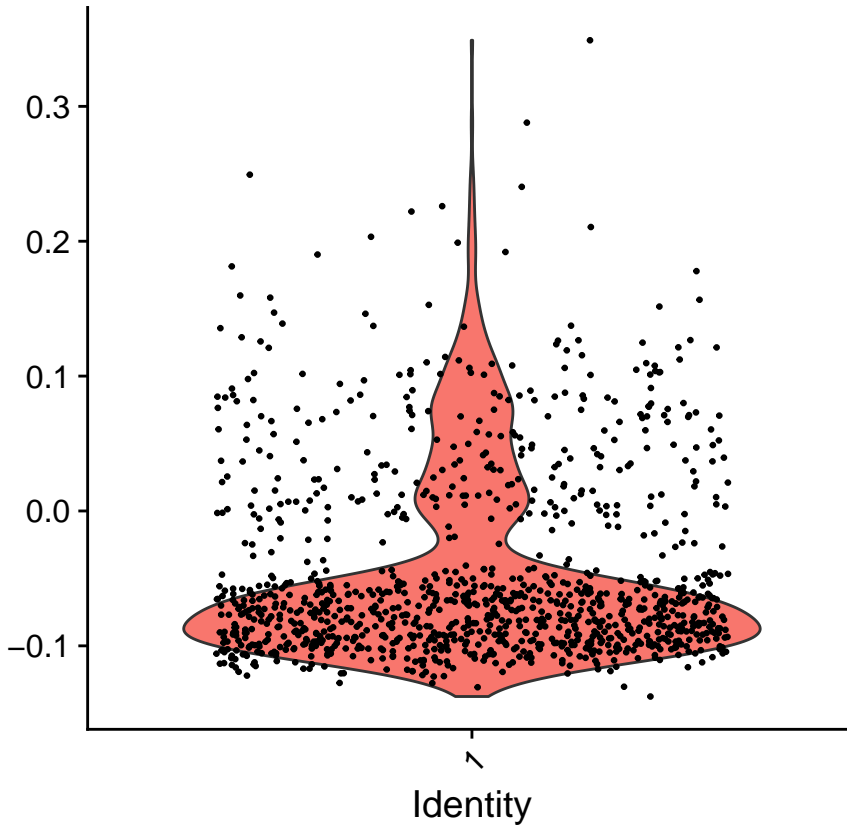
Diff: FCGR3A



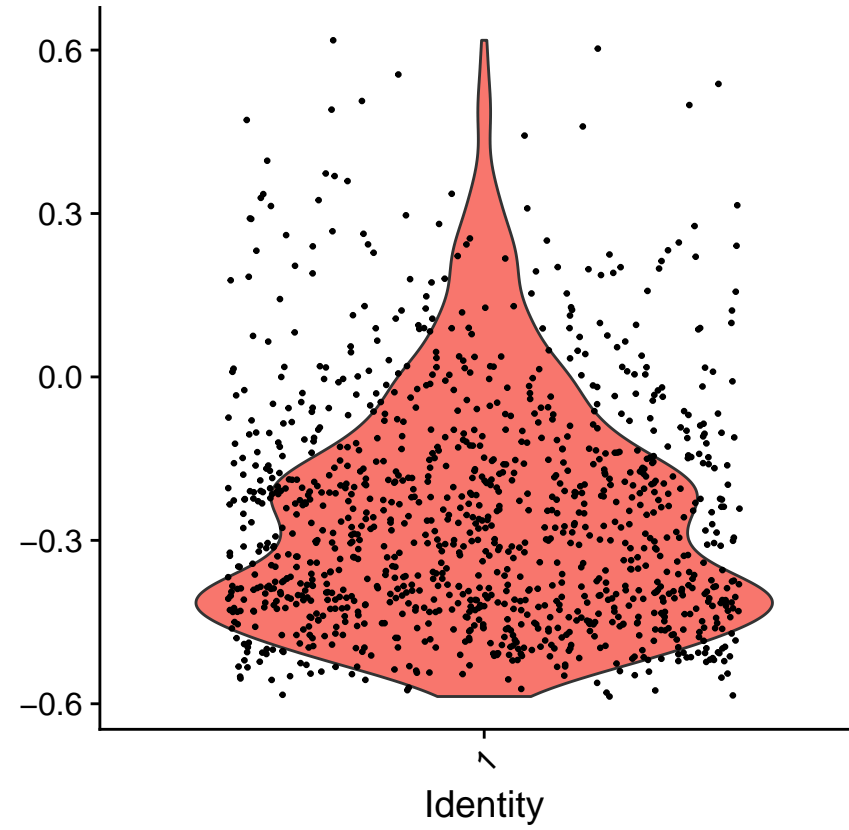
| | Stage | Cell_Count |
|---|--------------|-------------------|
| 1 | CMP_score1 | 300 |
| 2 | Diff_score1 | 775 |
| 3 | GMP_score1 | 41 |
| 4 | HSC_score1 | 1 |
| 5 | MPP_score1 | 1 |

Cluster 1 – Score Violin Plot

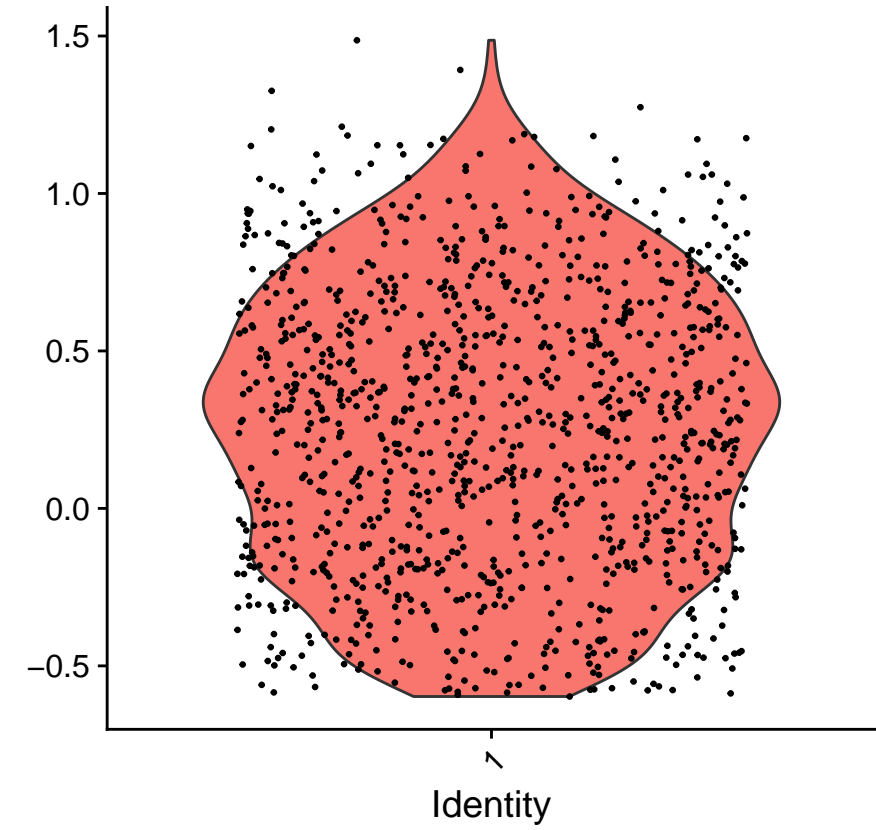
HSC_score1



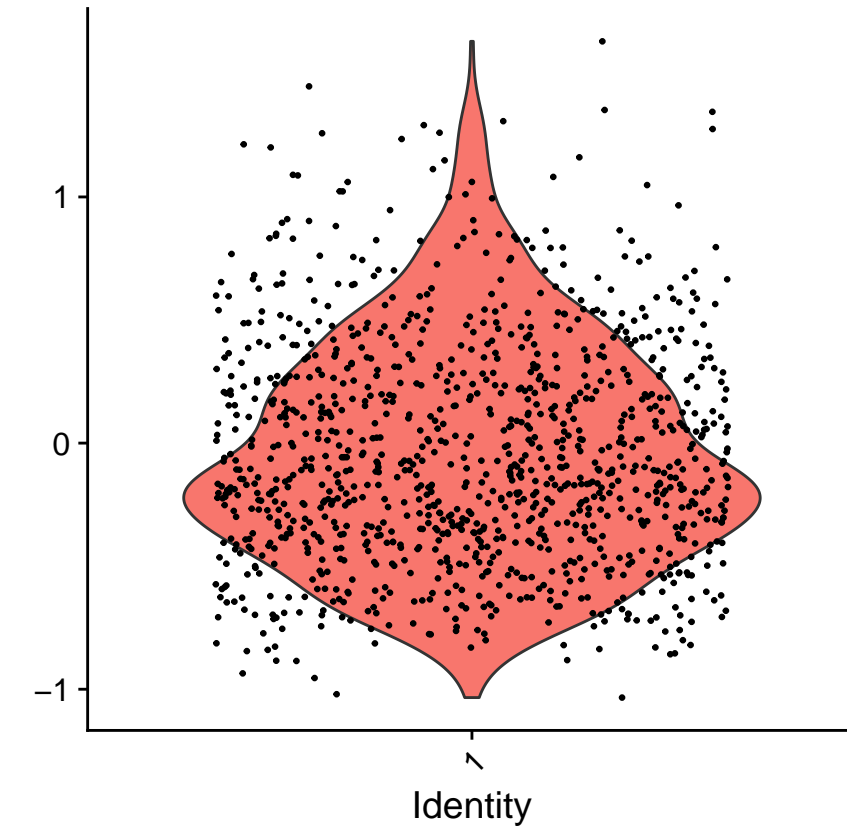
MPP_score1



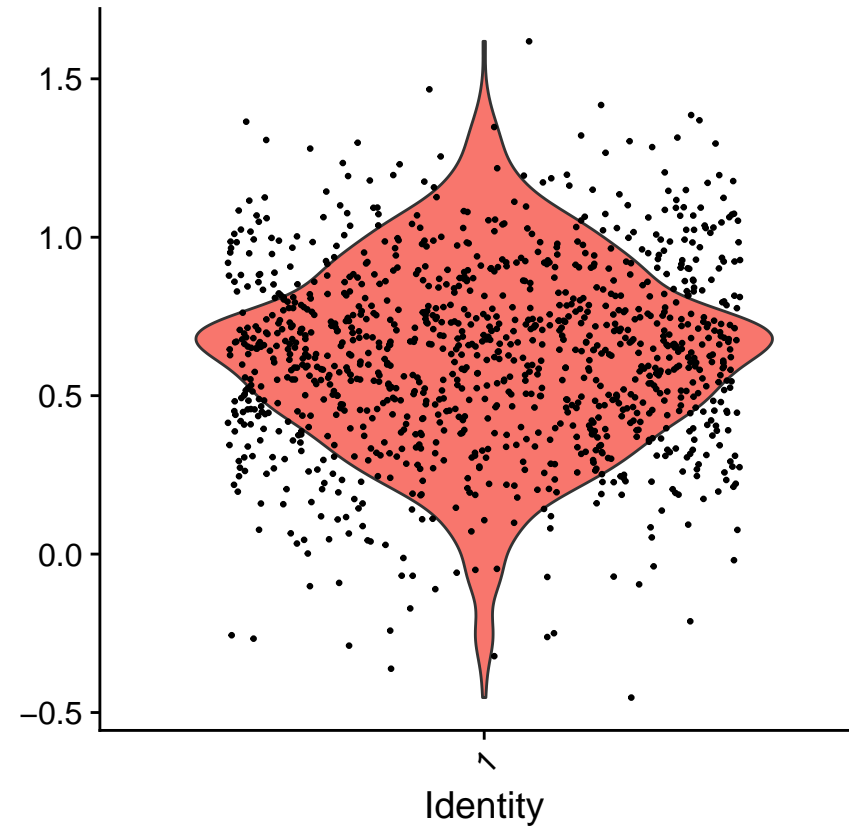
CMP_score1



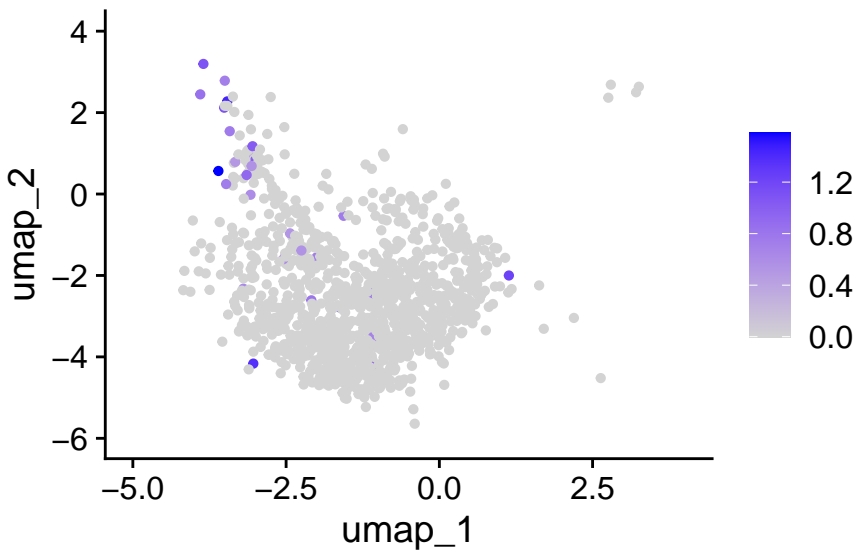
GMP_score1



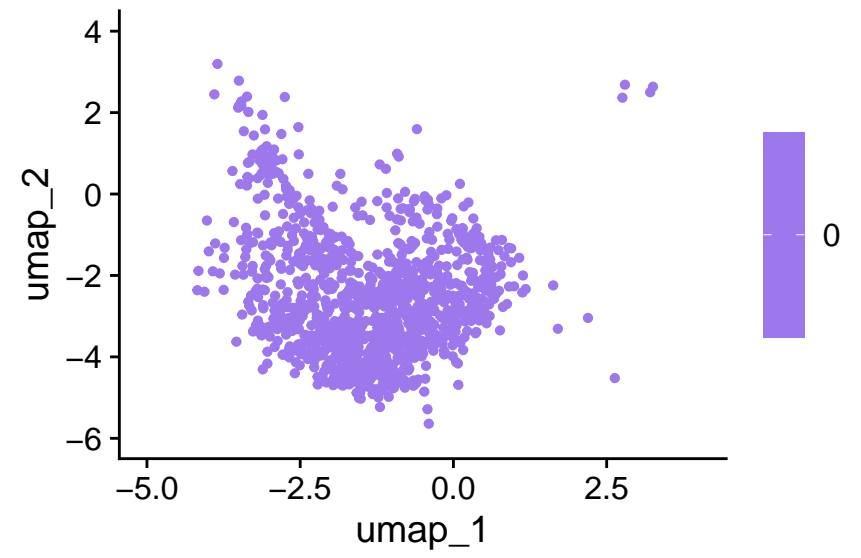
Diff_score1



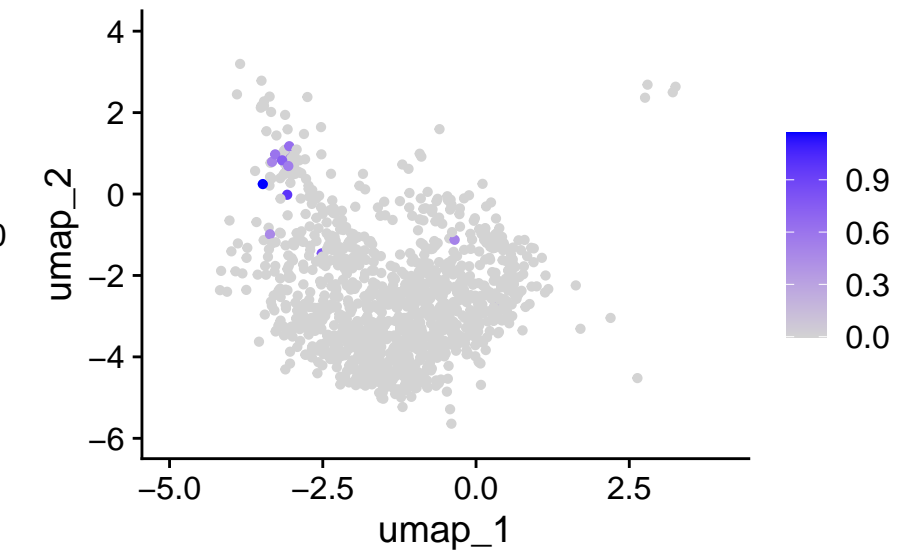
HSC: CD34



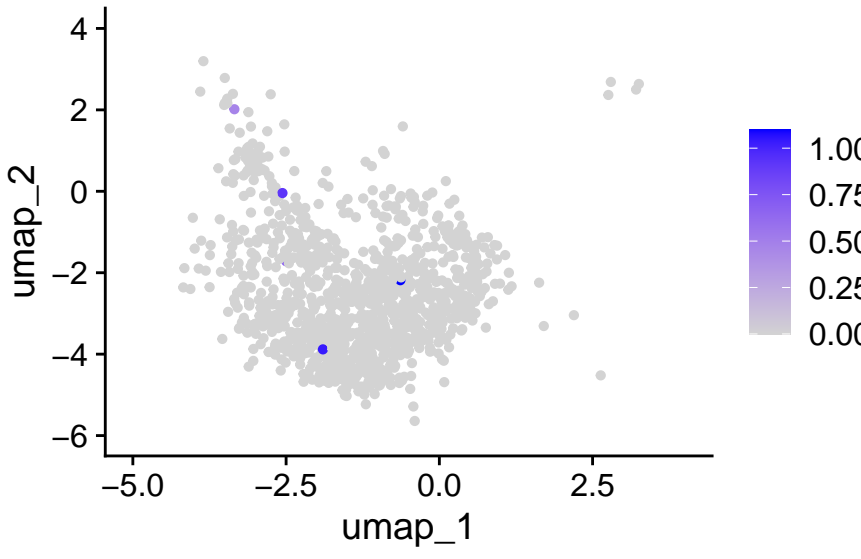
HSC: AVP (0)



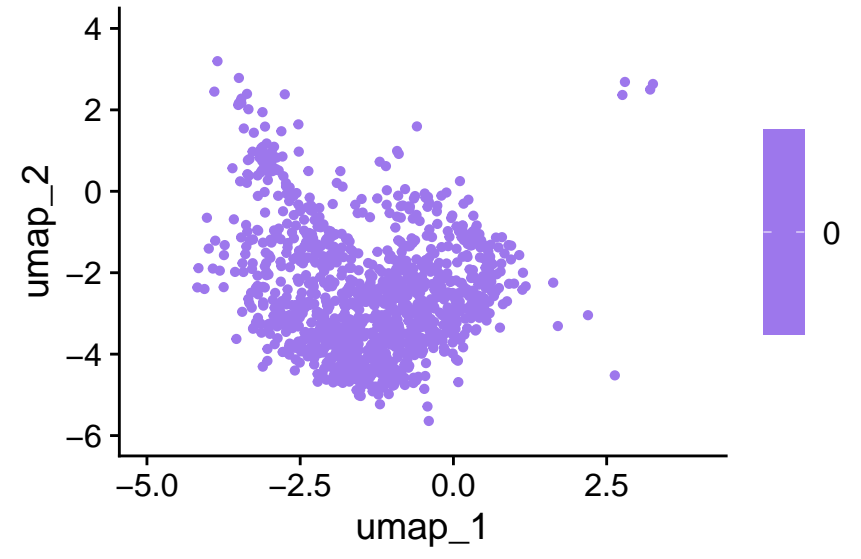
HSC: PROM1



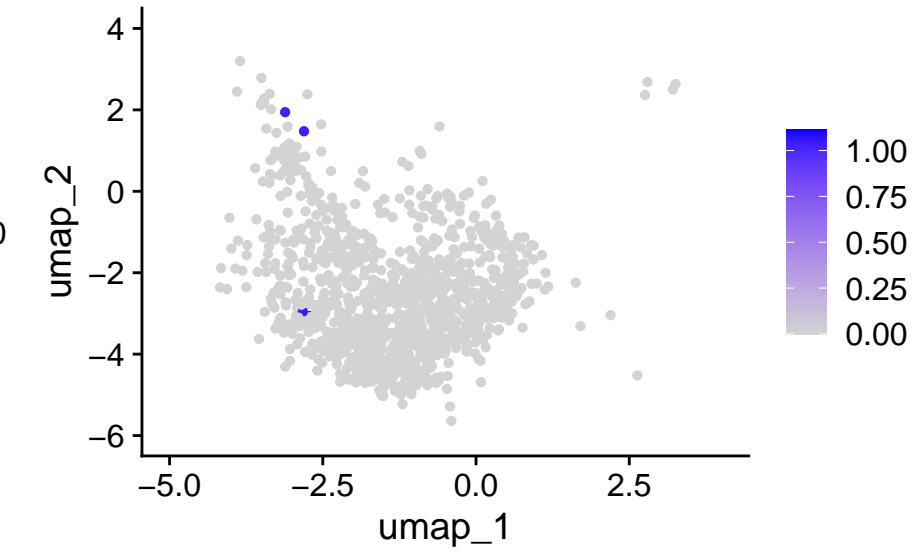
HSC: MEIS1



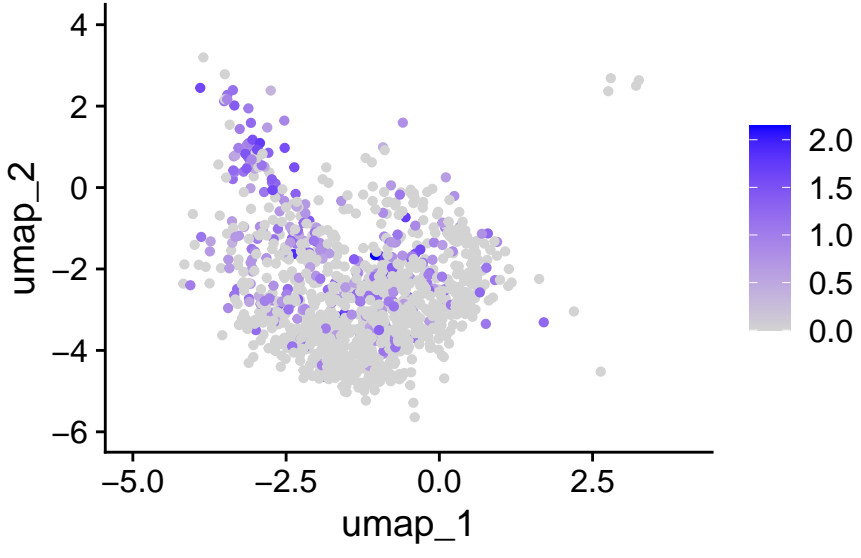
HSC: GATA2 (0)



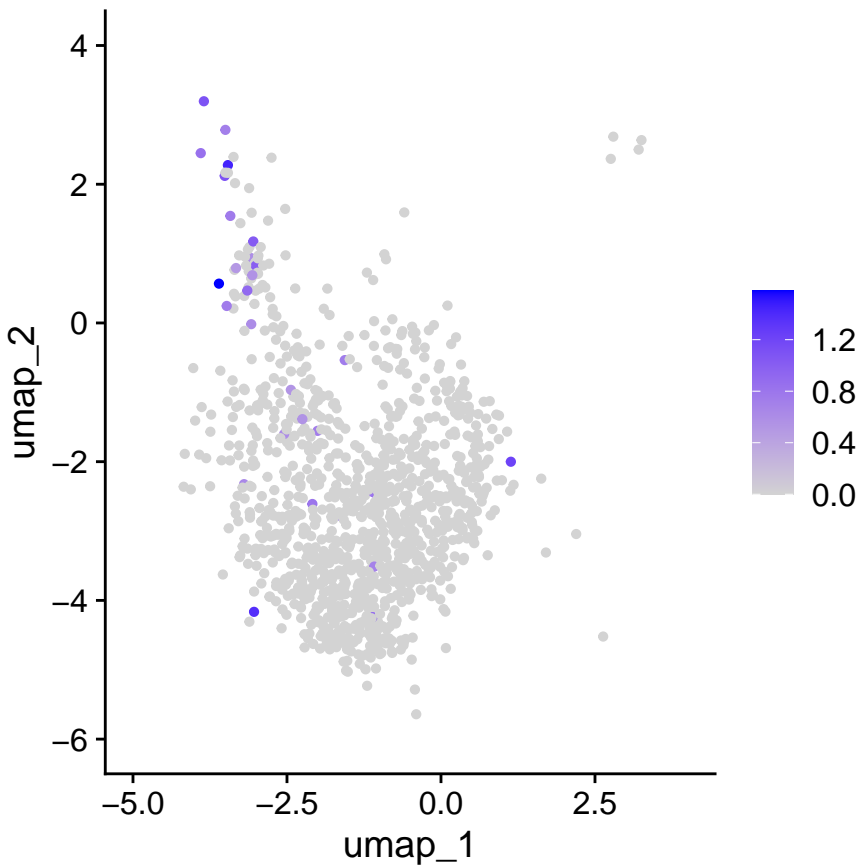
HSC: HOXA9



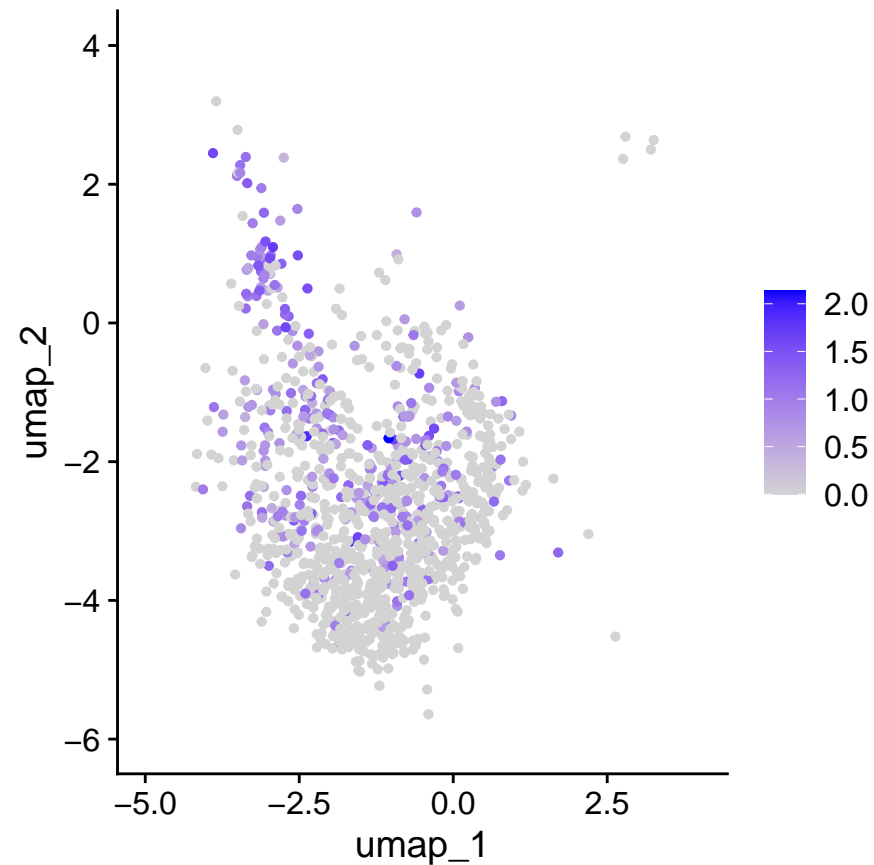
HSC: FLT3



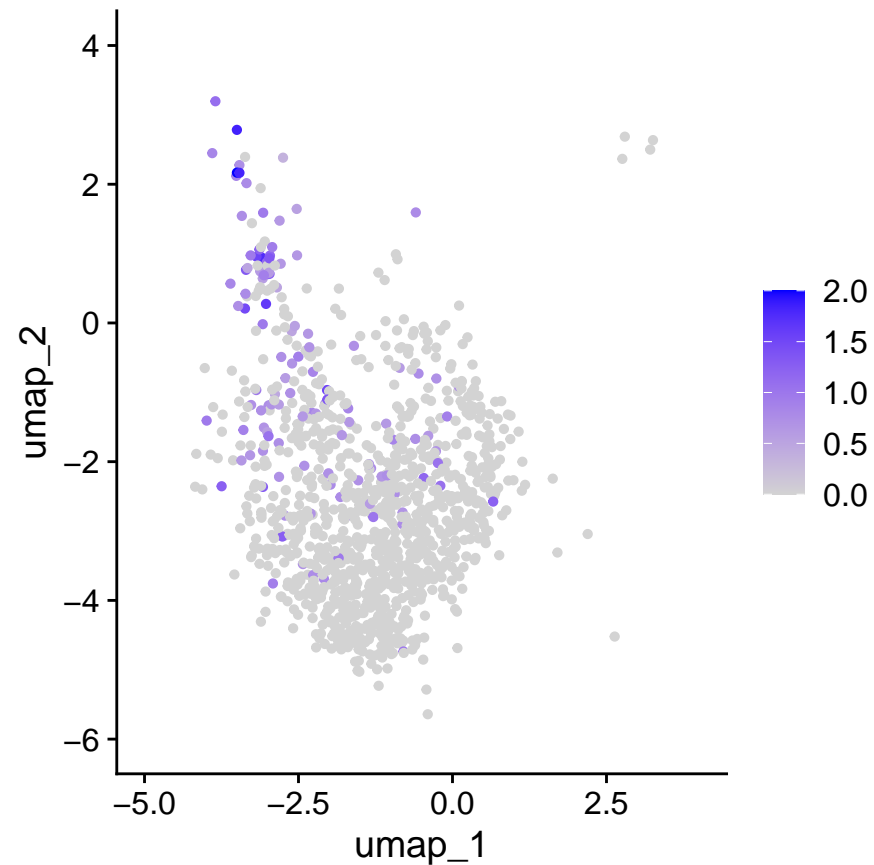
MPP: CD34



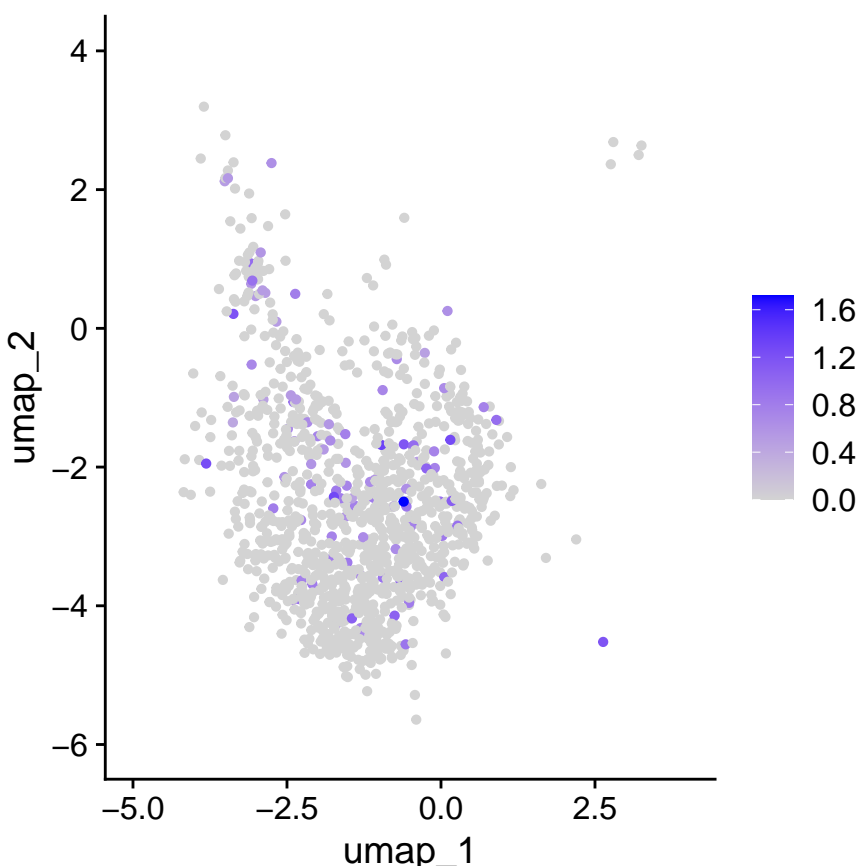
MPP: FLT3



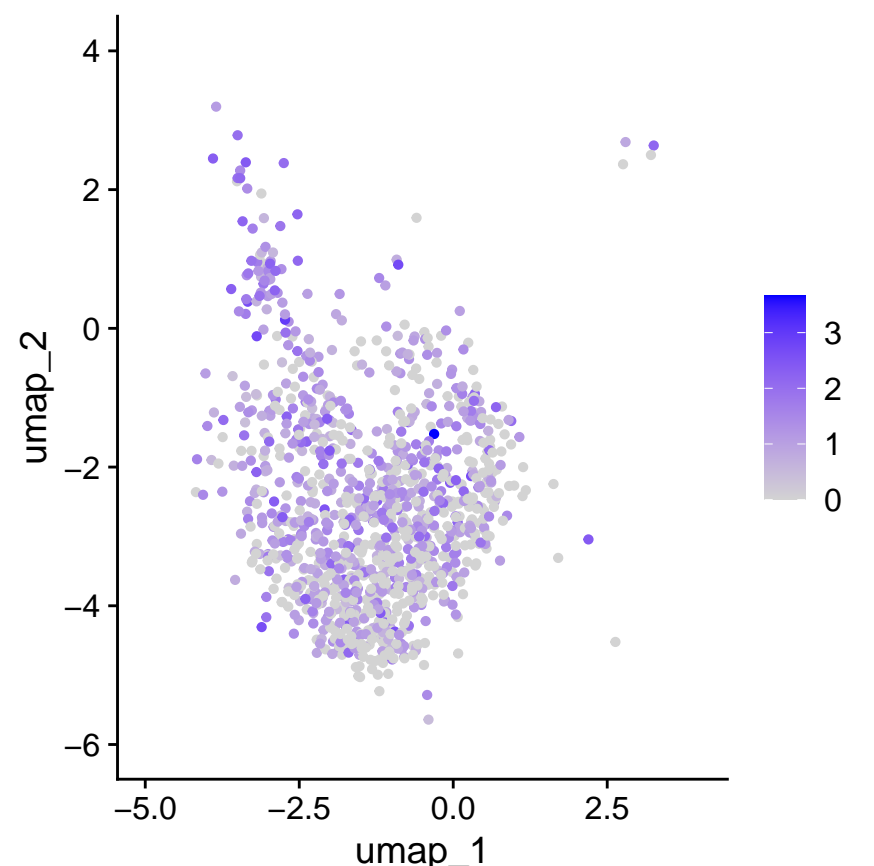
MPP: KIT



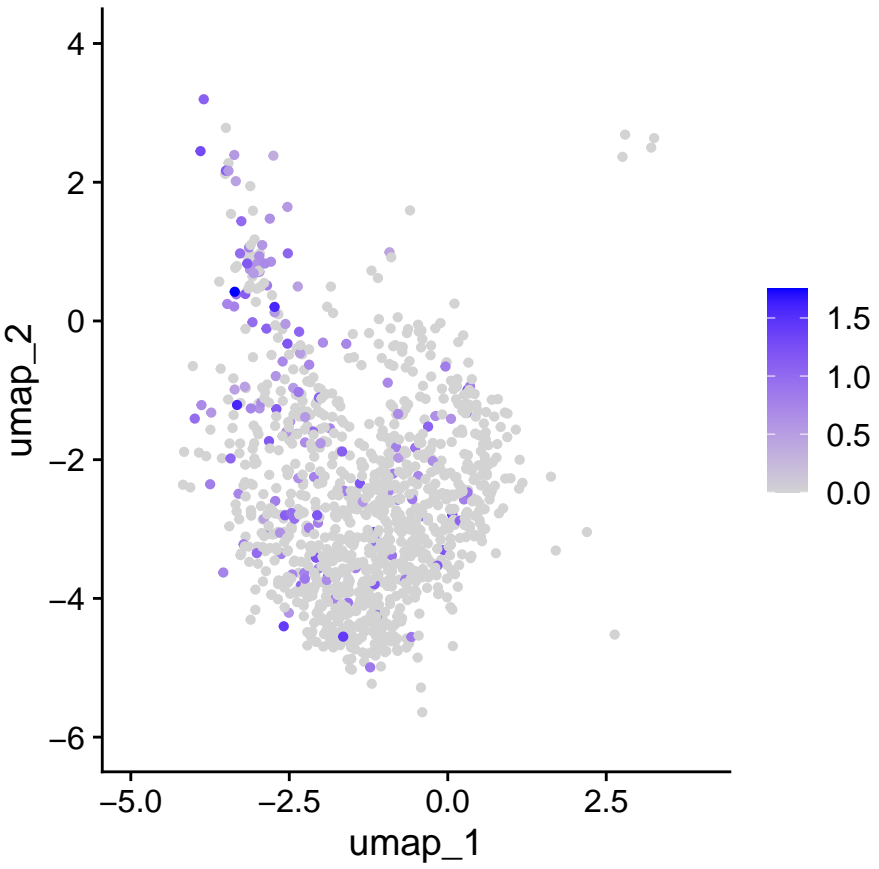
MPP: CD38



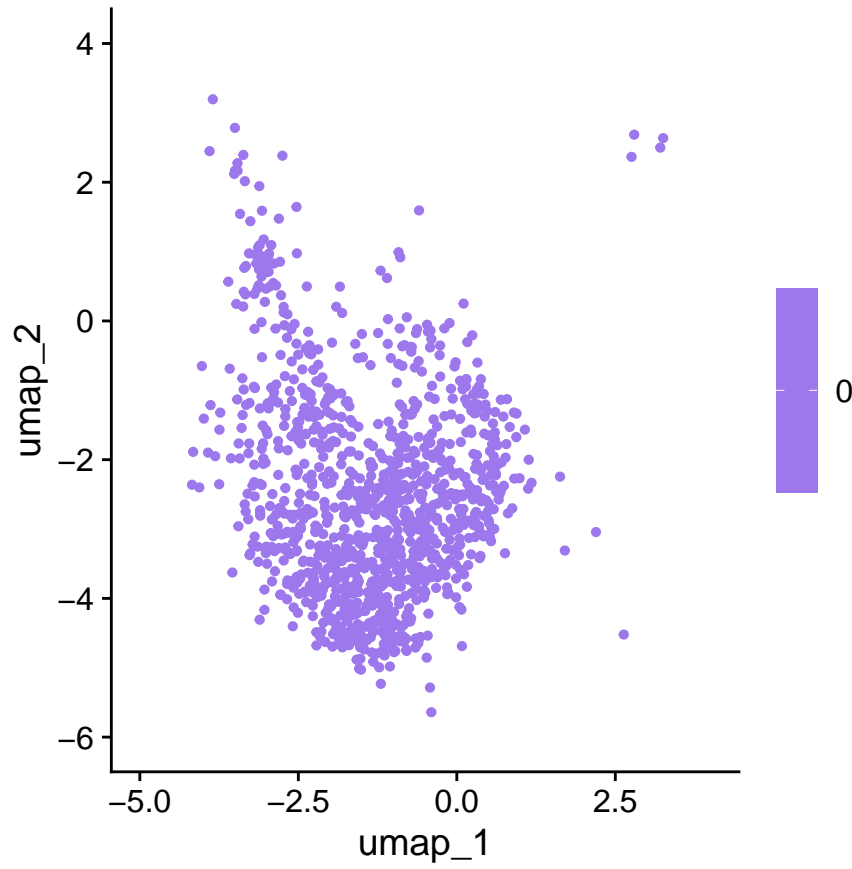
MPP: SOX4



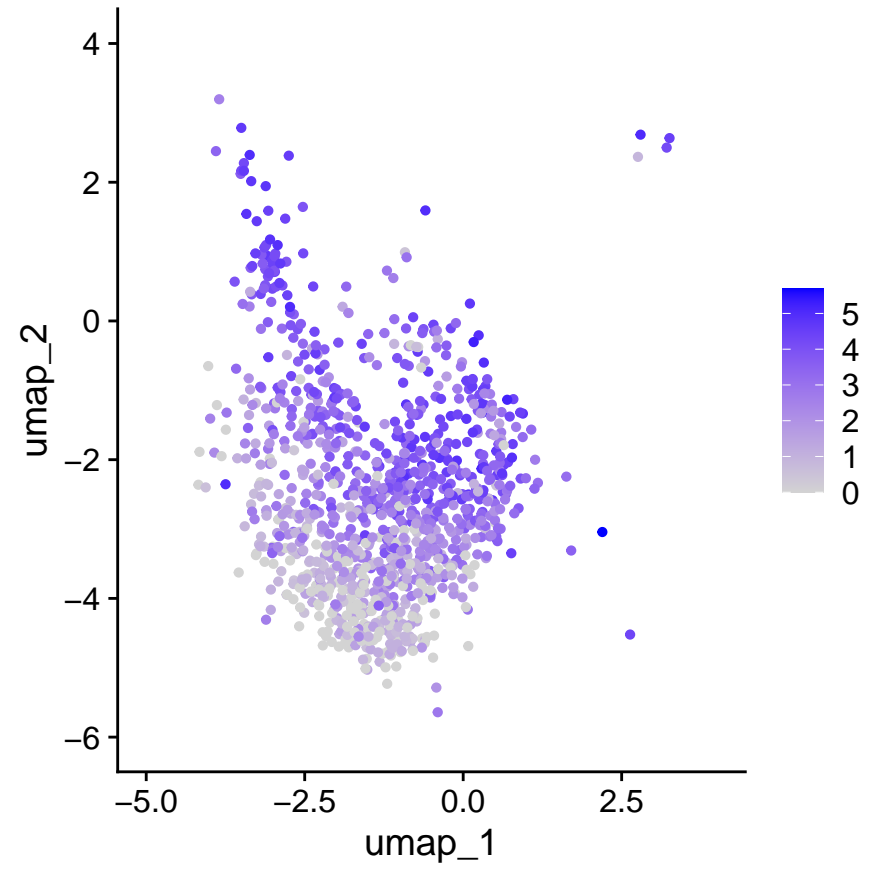
CMP: IL3RA



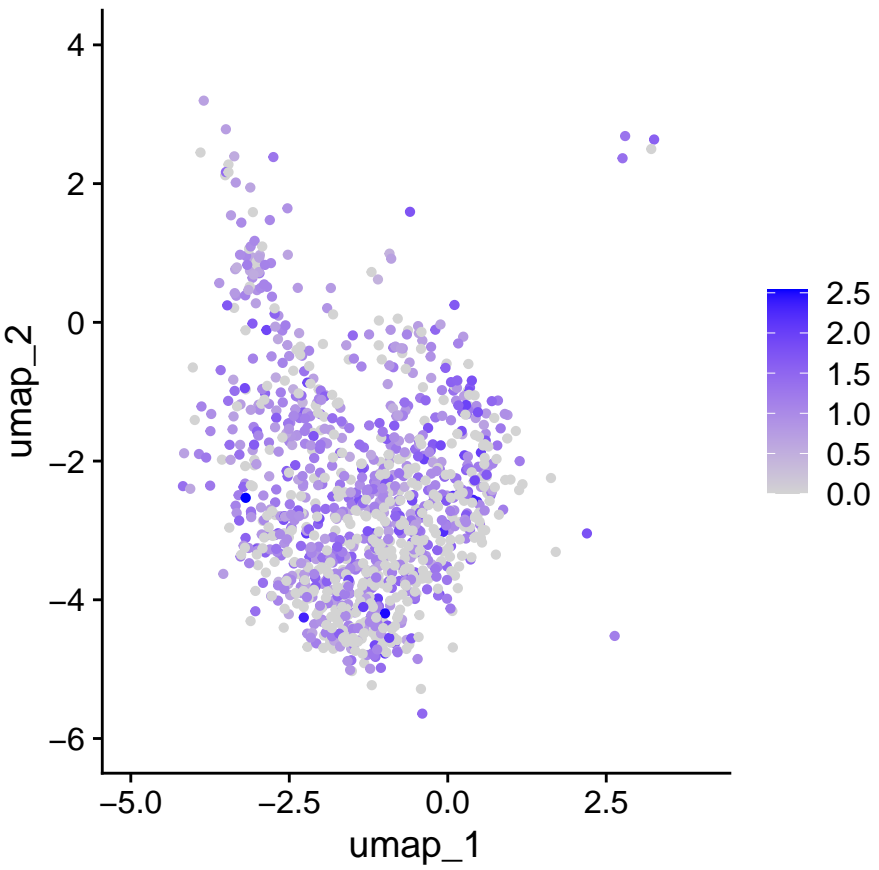
CMP: GATA1 (0)



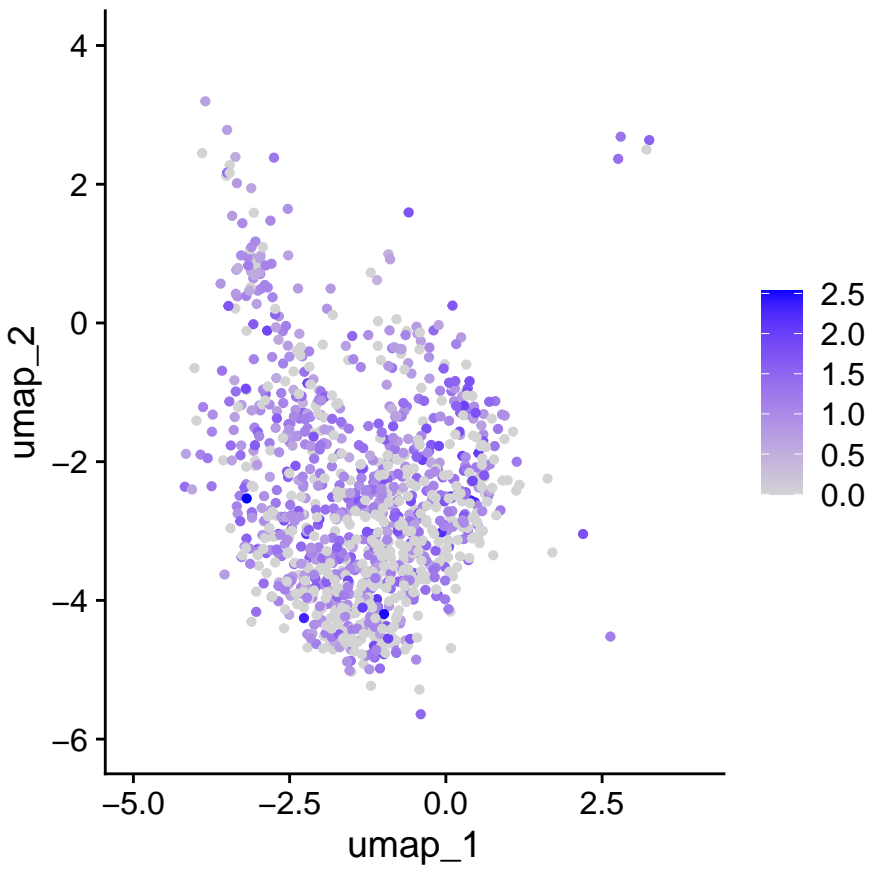
CMP: MPO



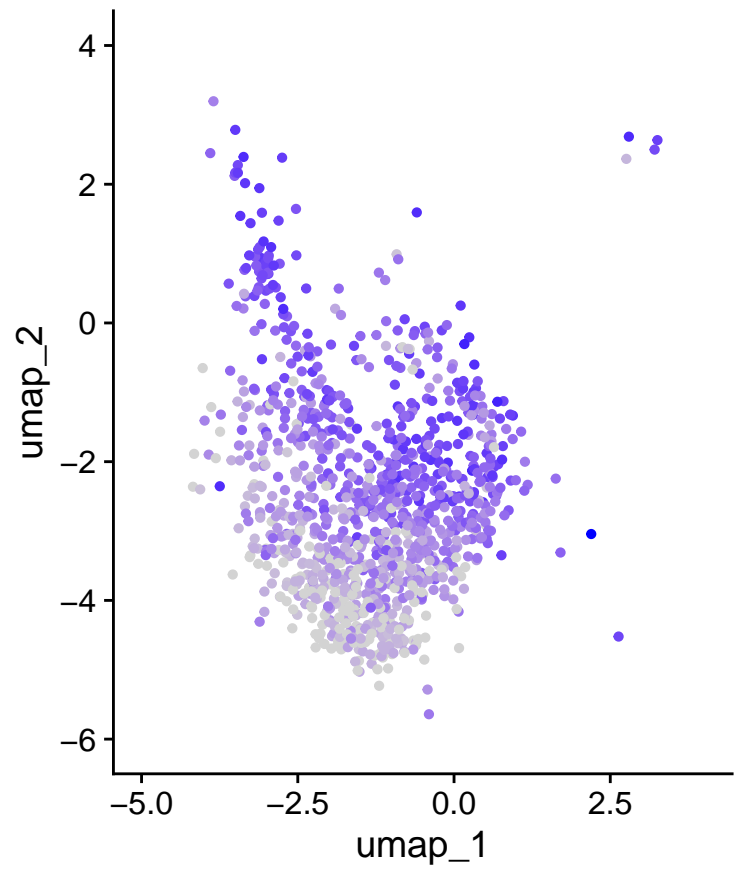
CMP: CEBPA



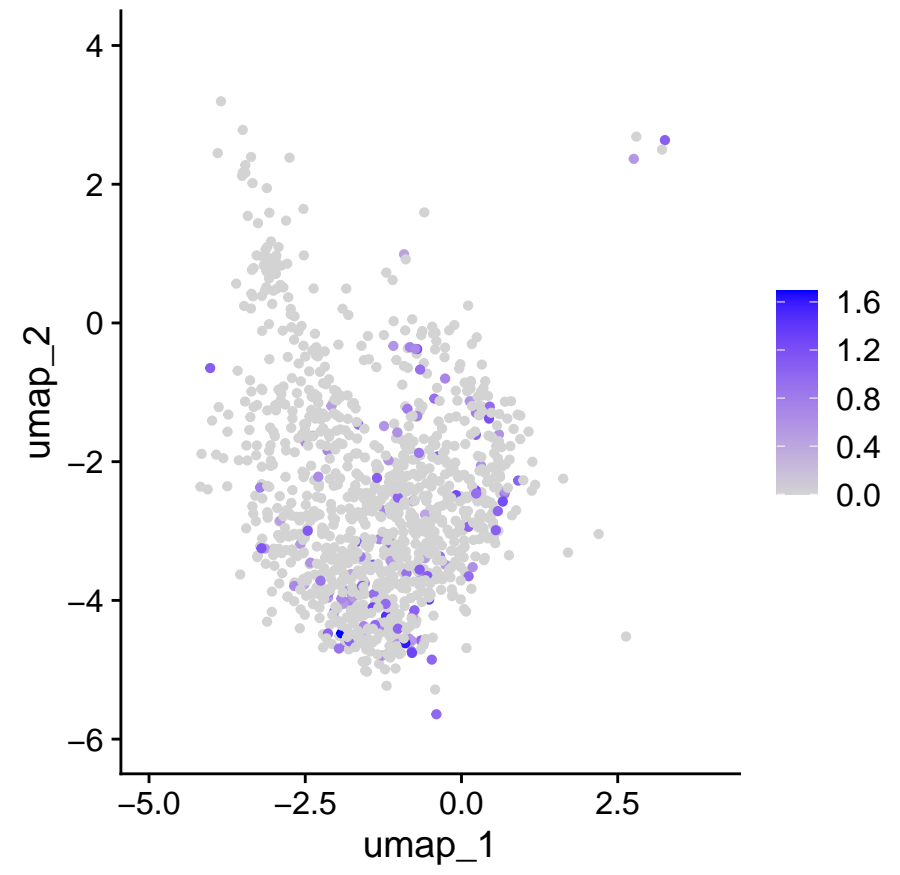
GMP: CEBPA



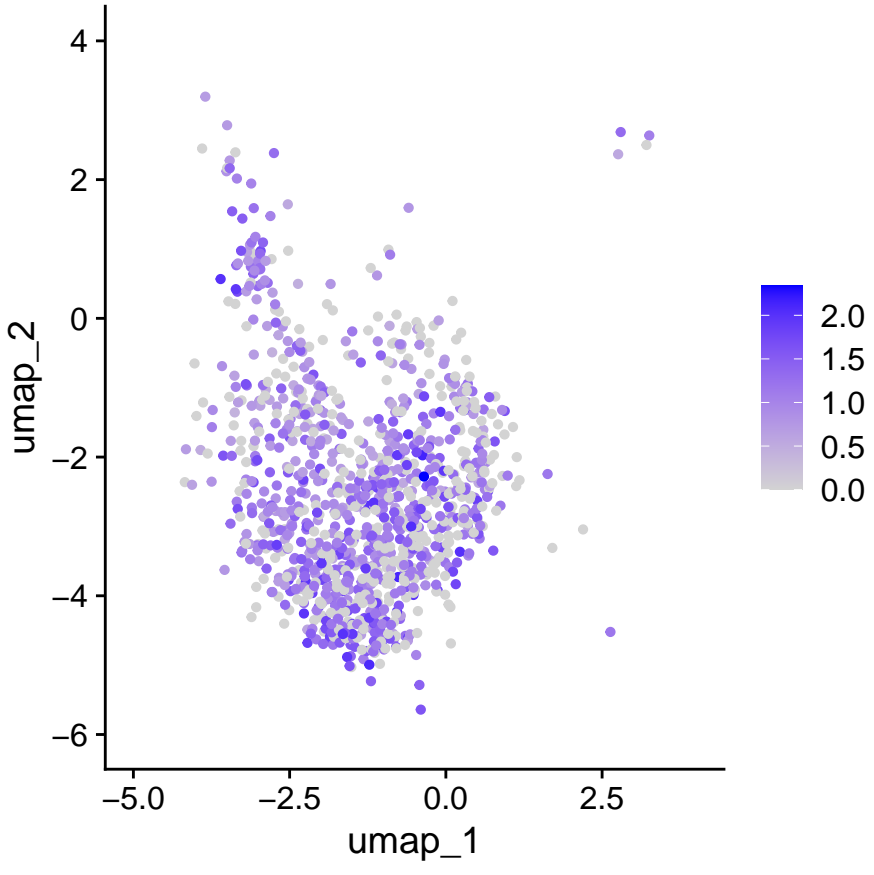
GMP: MPO



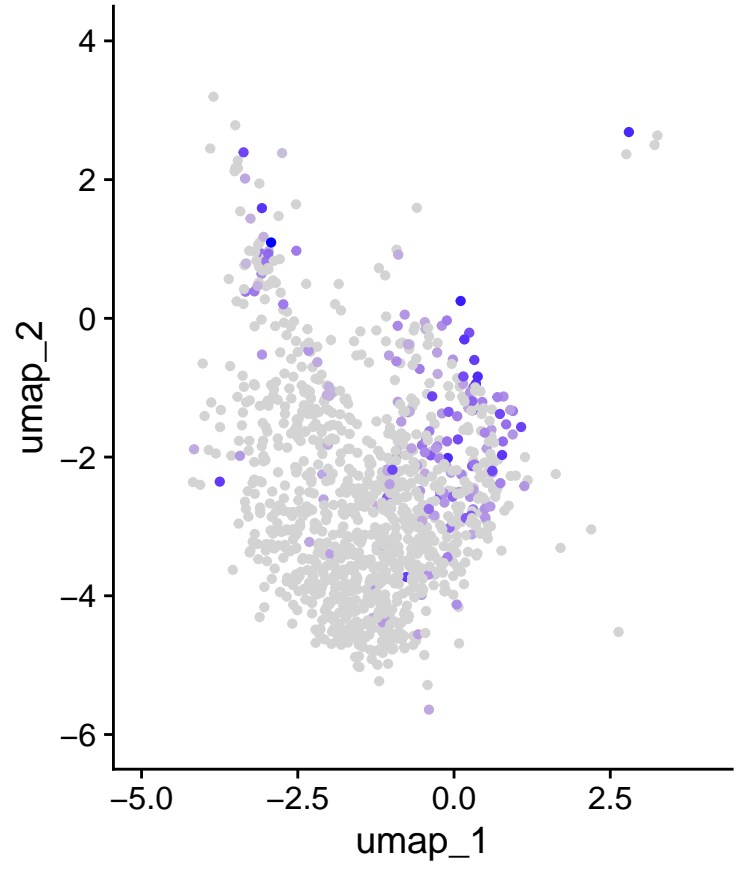
GMP: ITGAM



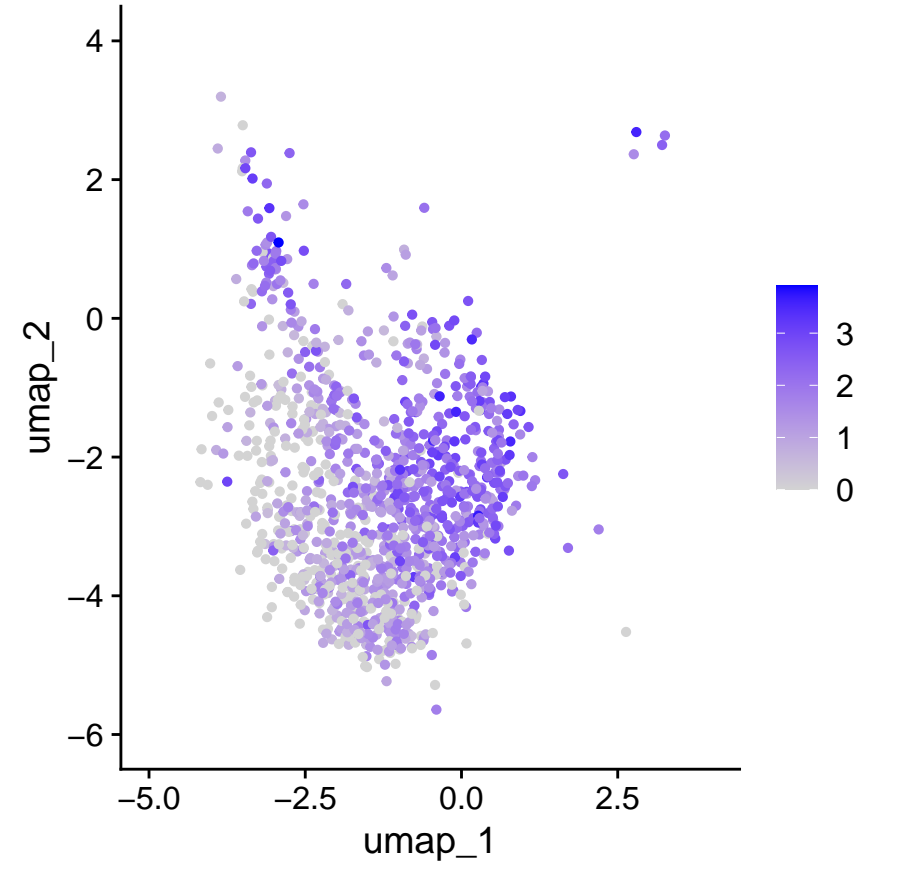
GMP: CSF3R



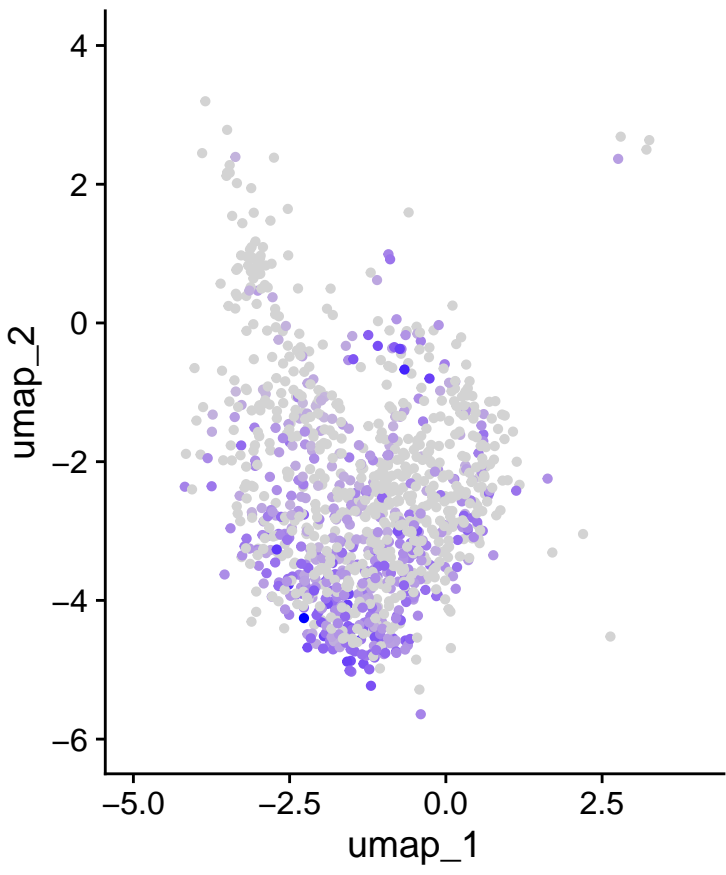
GMP: ELANE



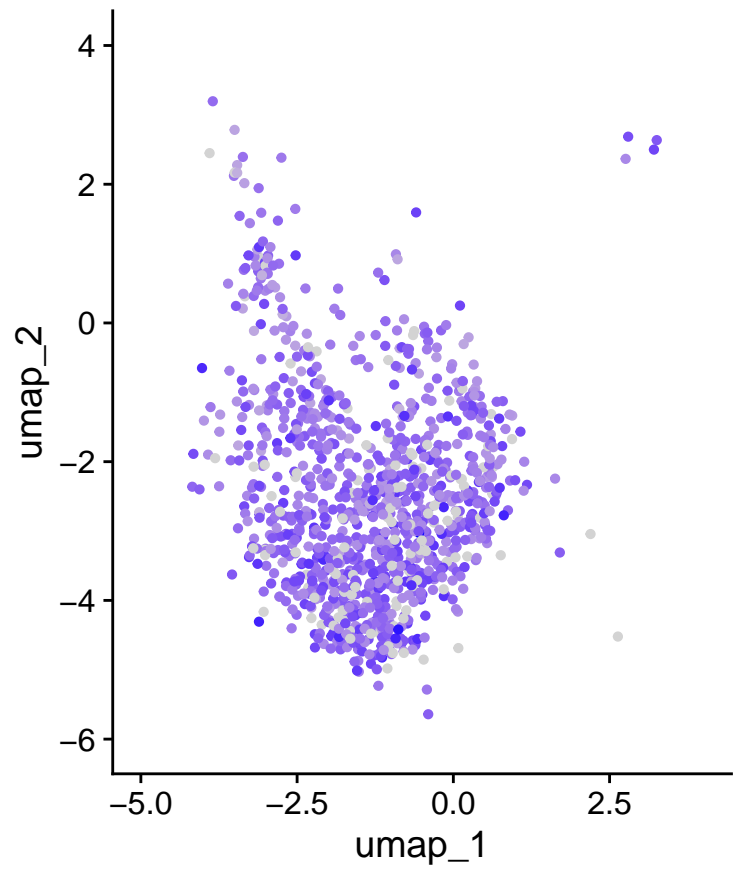
GMP: AZU1



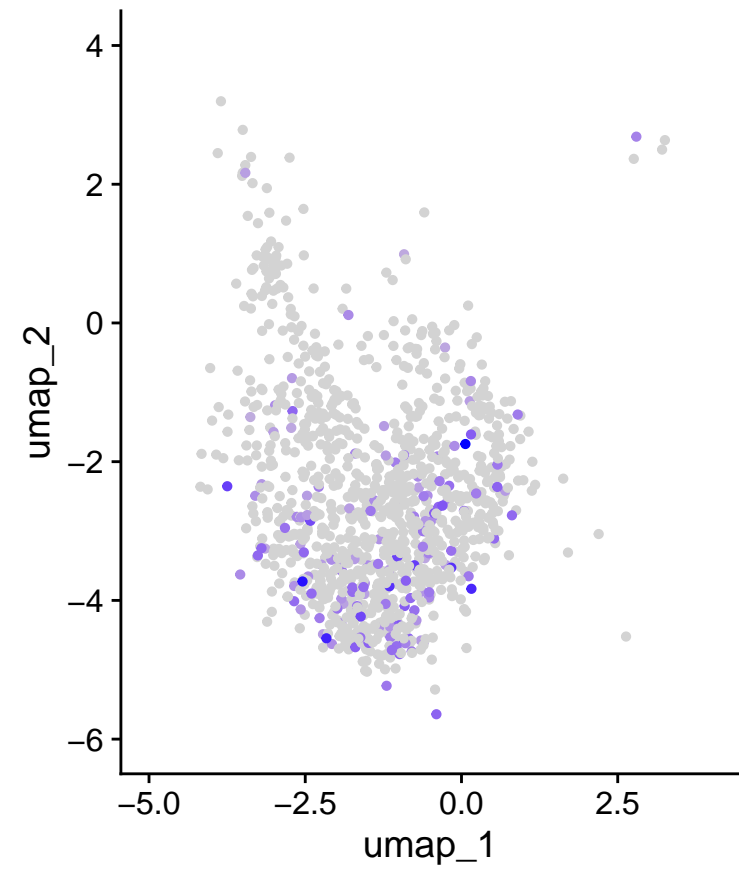
Diff: CD14



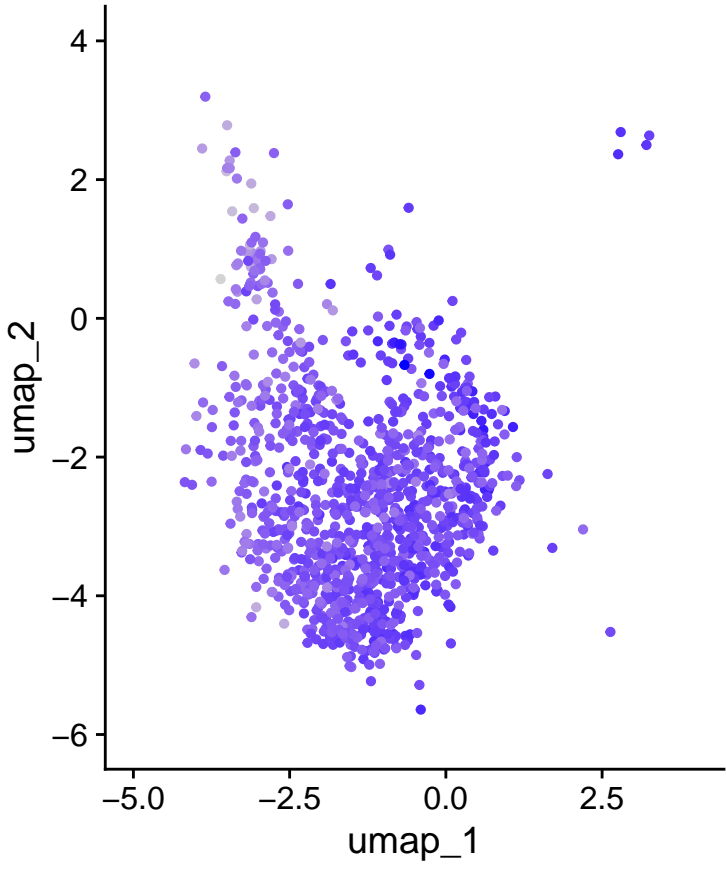
Diff: CD68



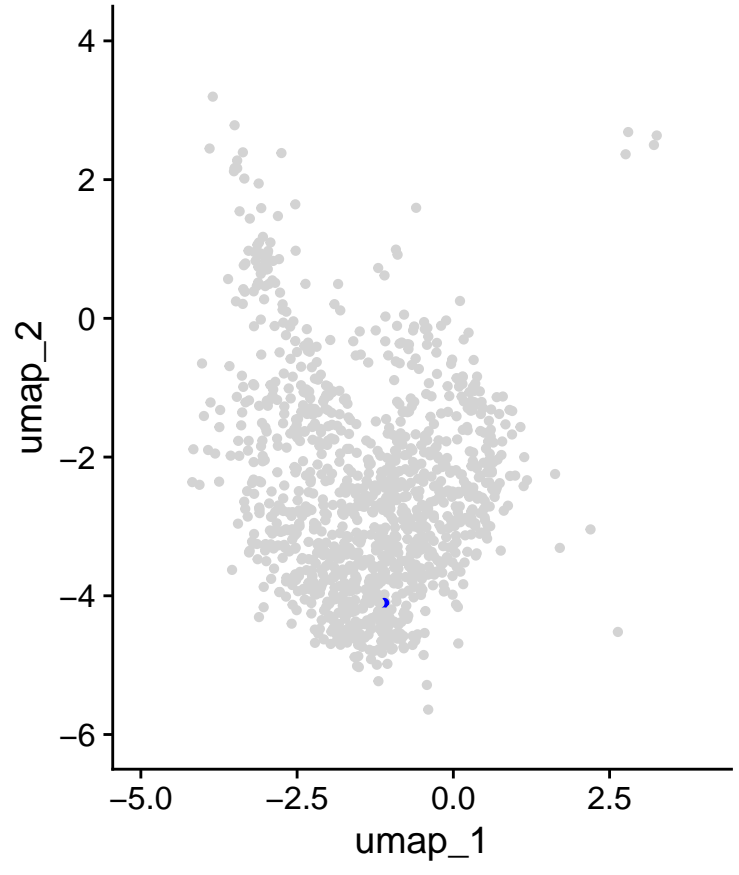
Diff: ITGAX



Diff: S100A9



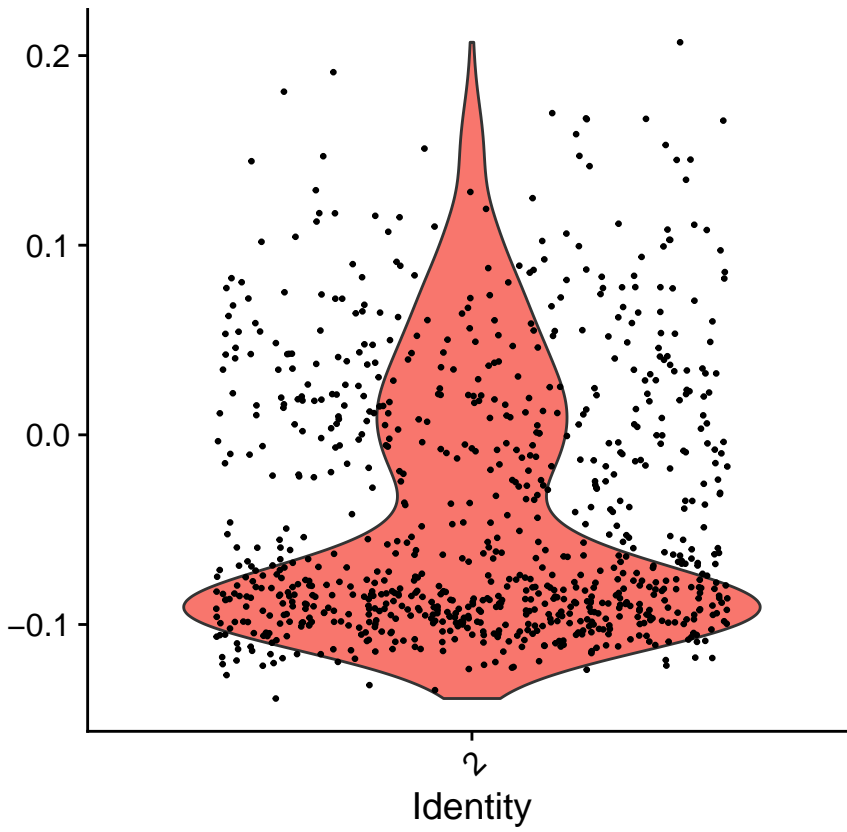
Diff: FCGR3A



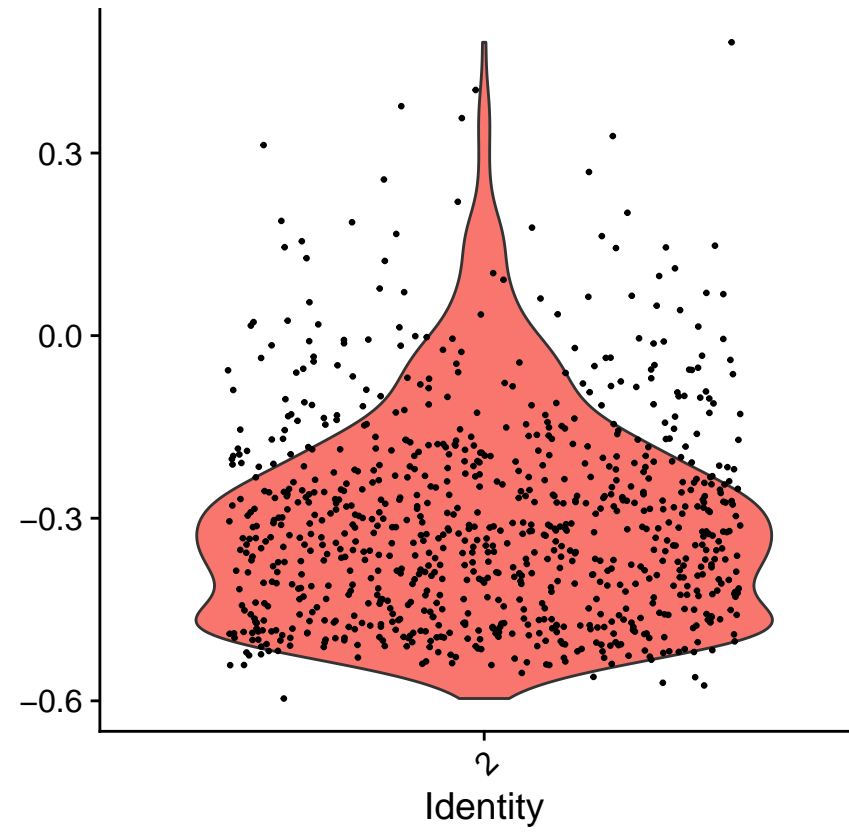
| | Stage | Cell_Count |
|---|--------------|-------------------|
| 1 | CMP_score1 | 102 |
| 2 | Diff_score1 | 486 |
| 3 | GMP_score1 | 1 |
| 4 | HSC_score1 | 240 |
| 5 | MPP_score1 | 22 |

Cluster 2 – Score Violin Plot

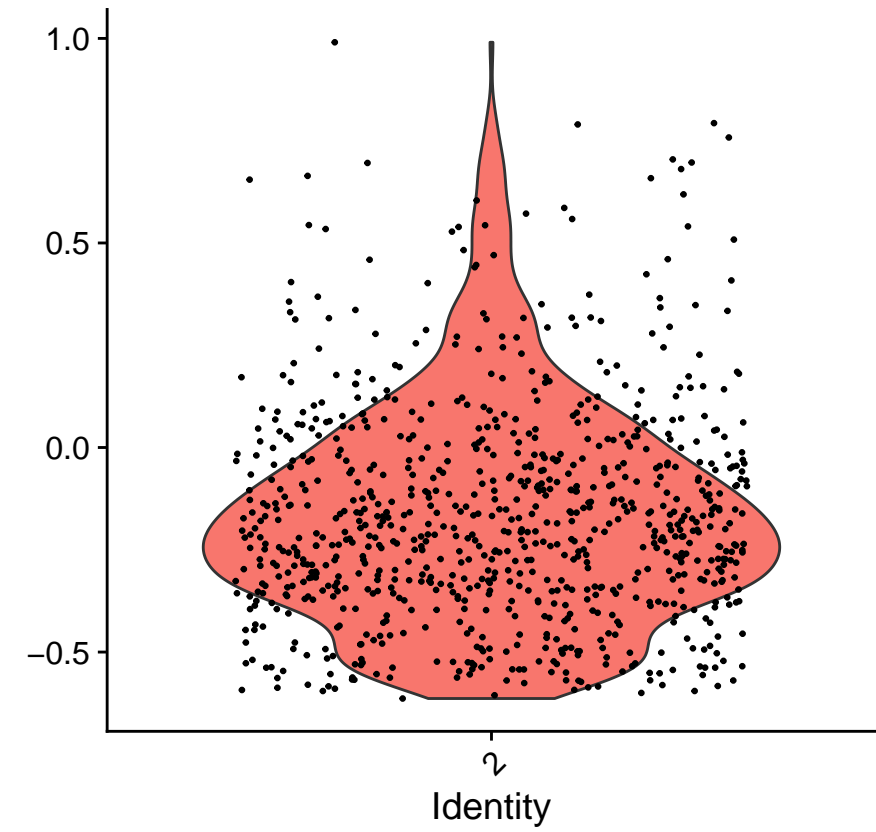
HSC_score1



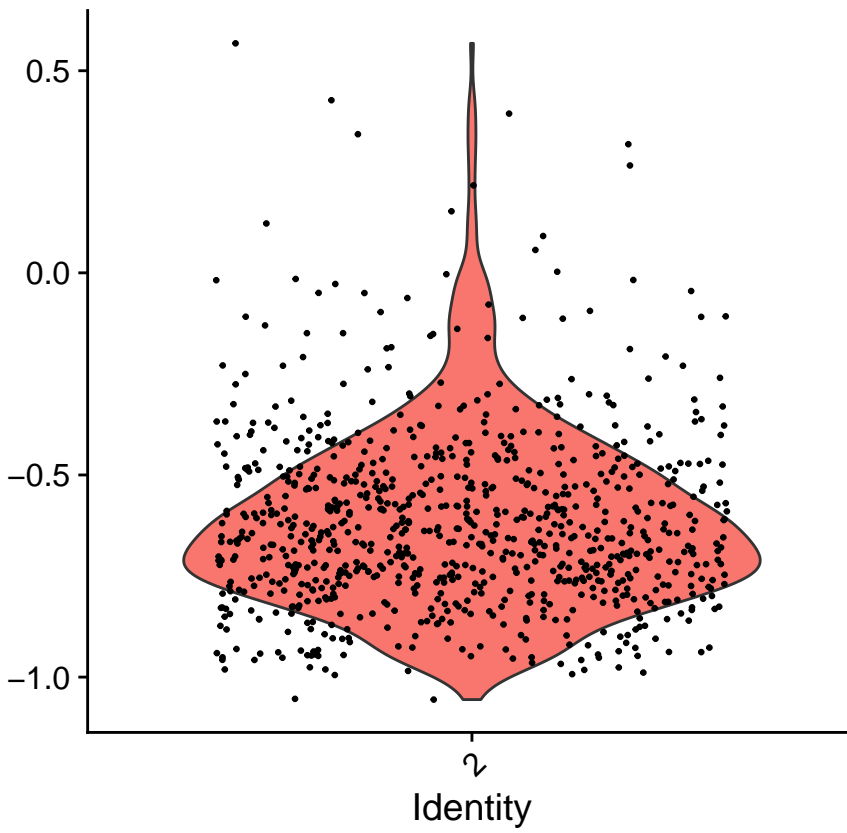
MPP_score1



CMP_score1



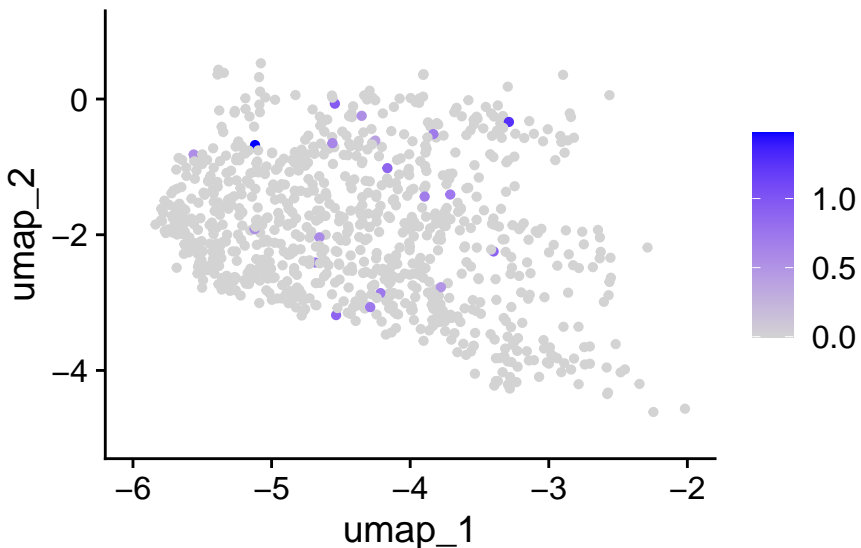
GMP_score1



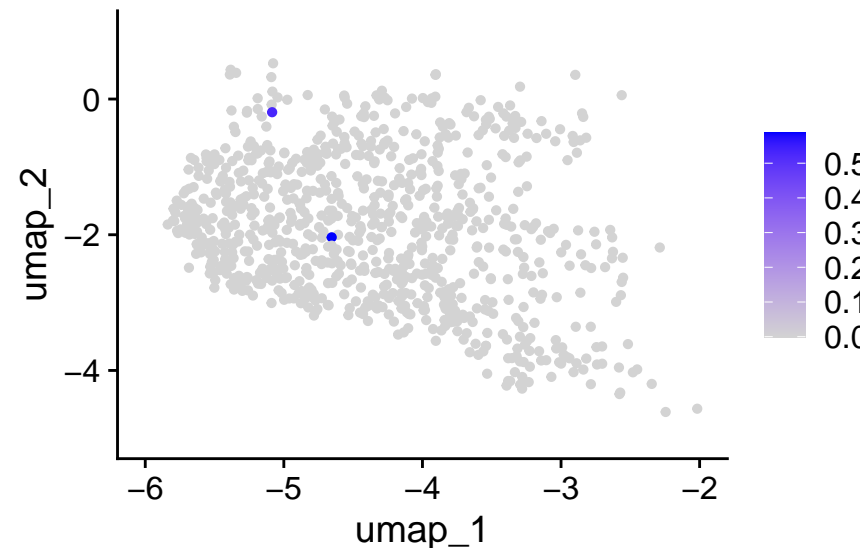
Diff_score1



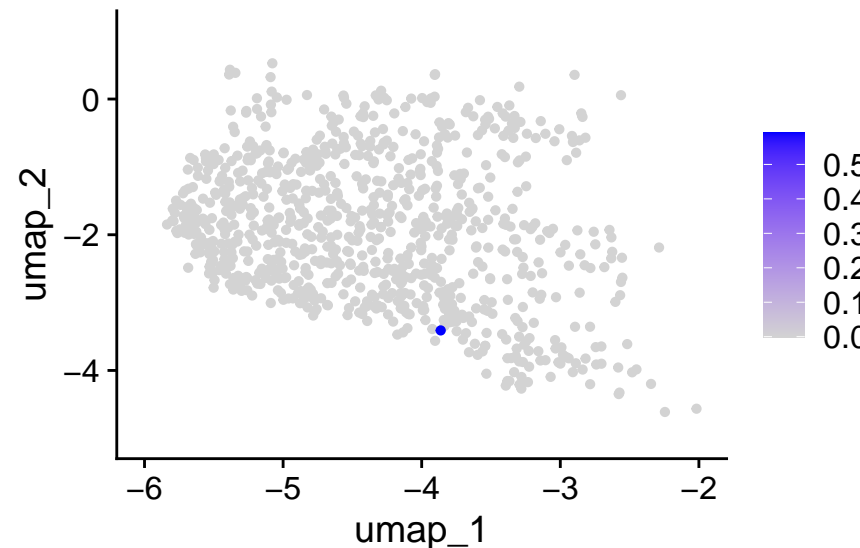
HSC: CD34



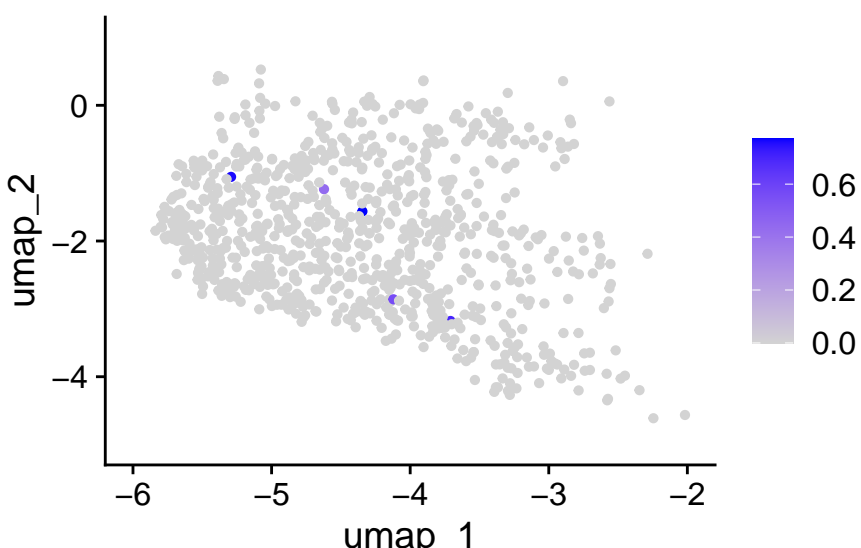
HSC: AVP



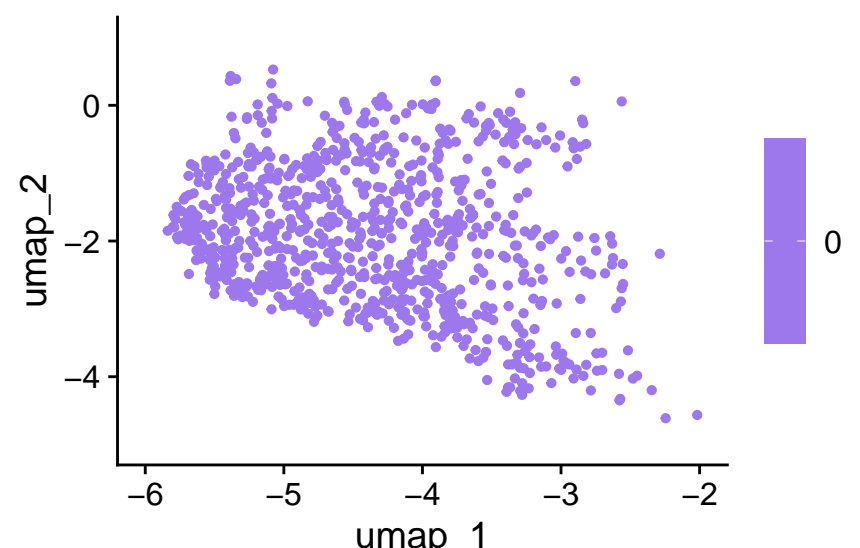
HSC: PROM1



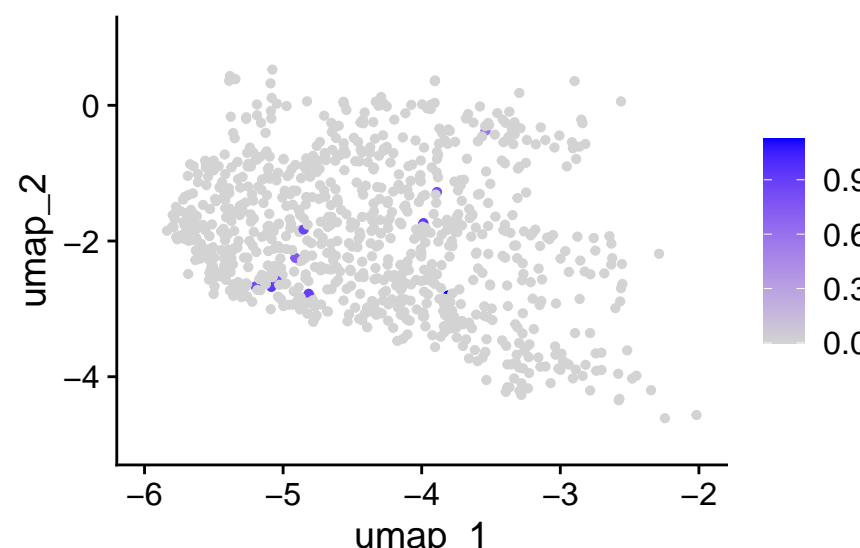
HSC: MEIS1



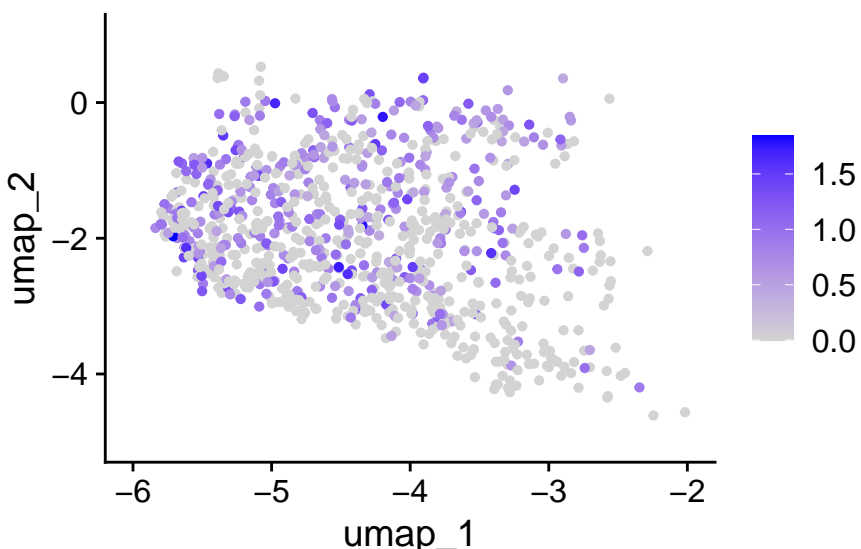
HSC: GATA2 (0)



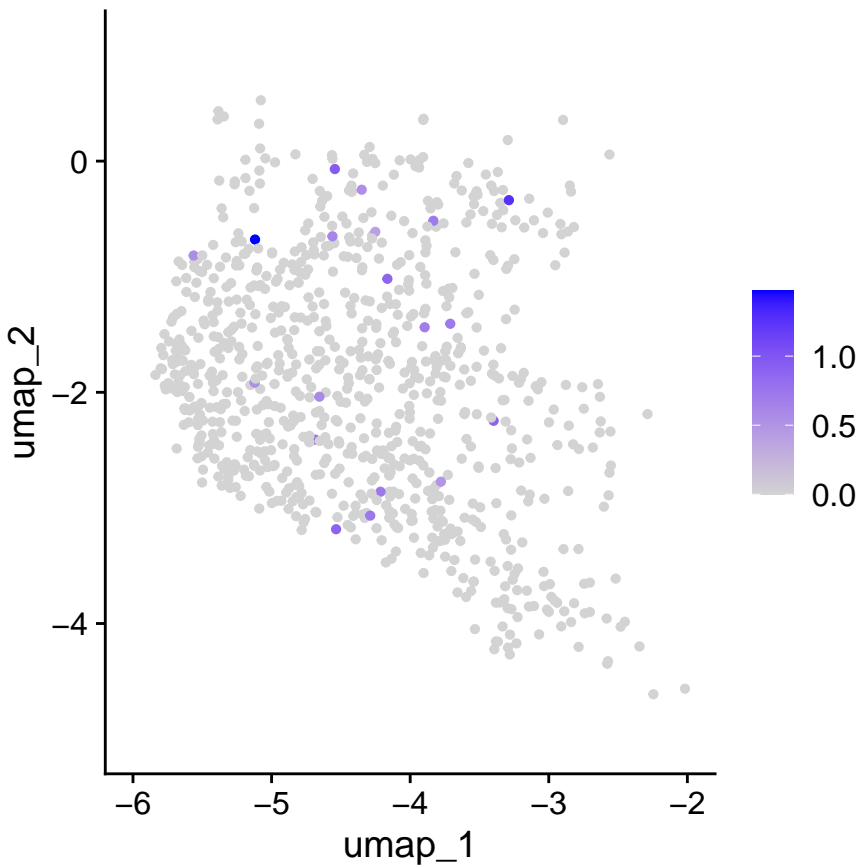
HSC: HOXA9



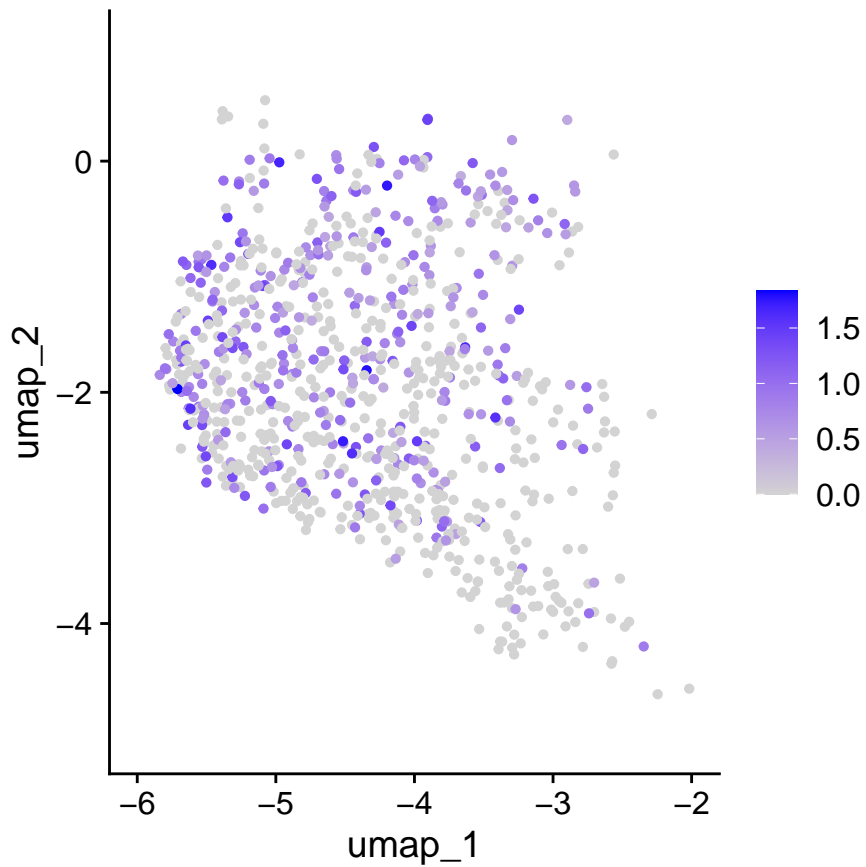
HSC: FLT3



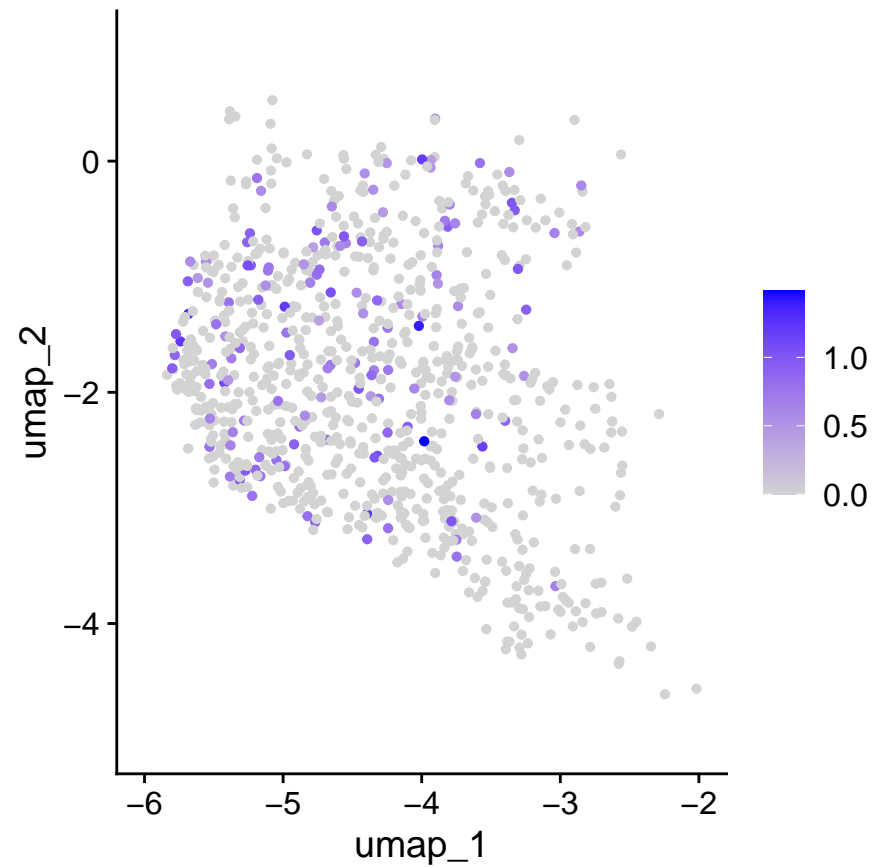
MPP: CD34



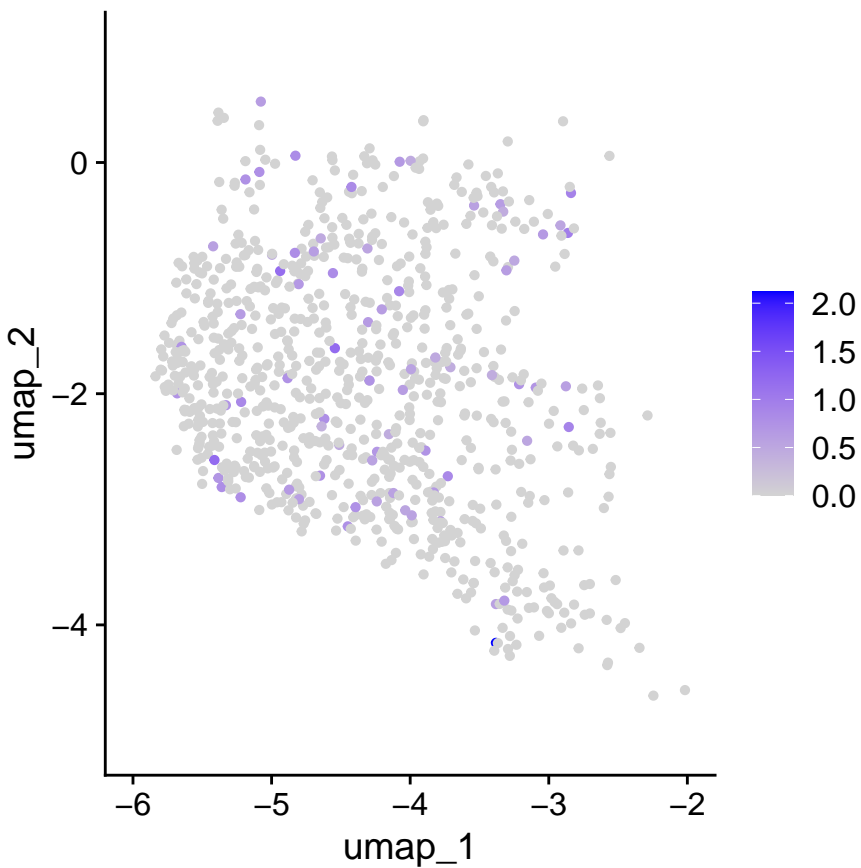
MPP: FLT3



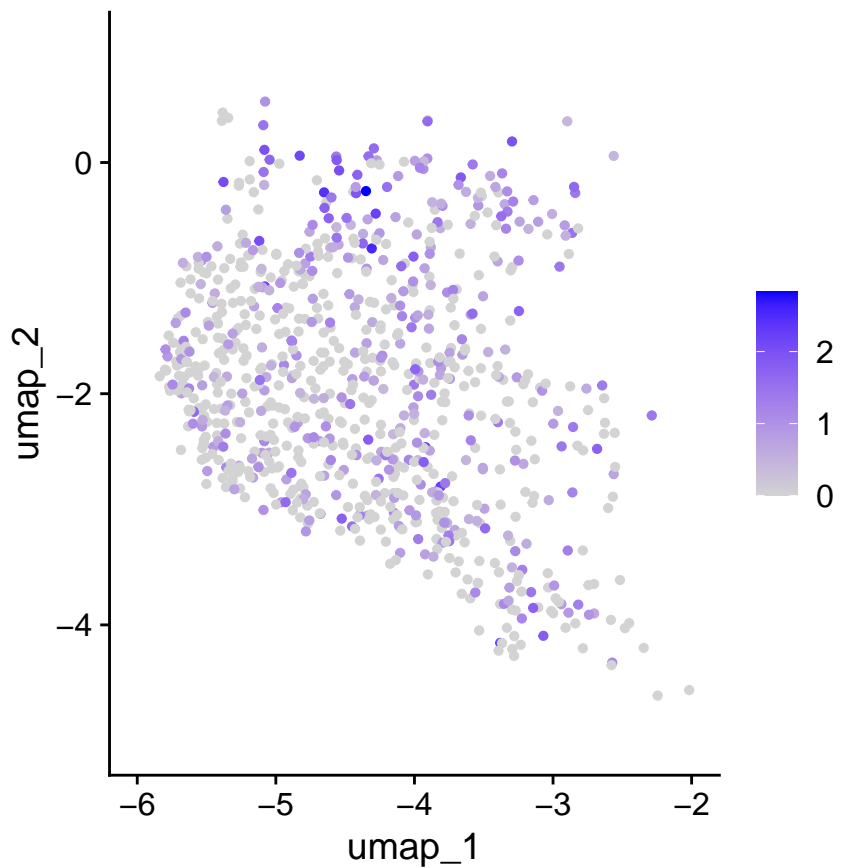
MPP: KIT



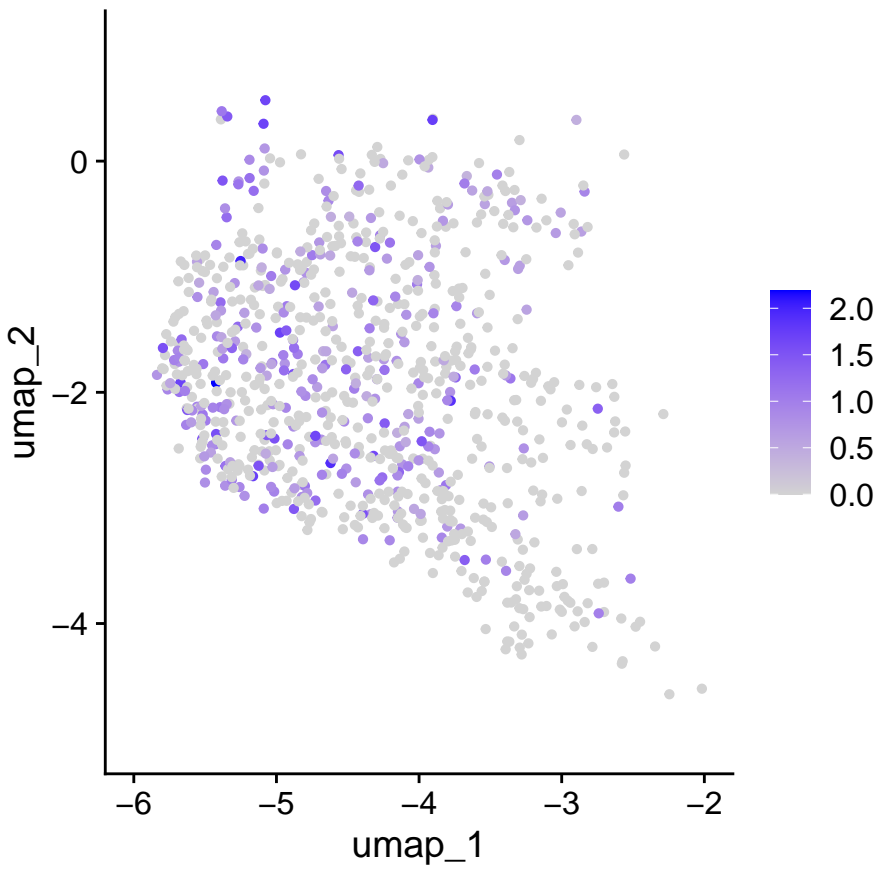
MPP: CD38



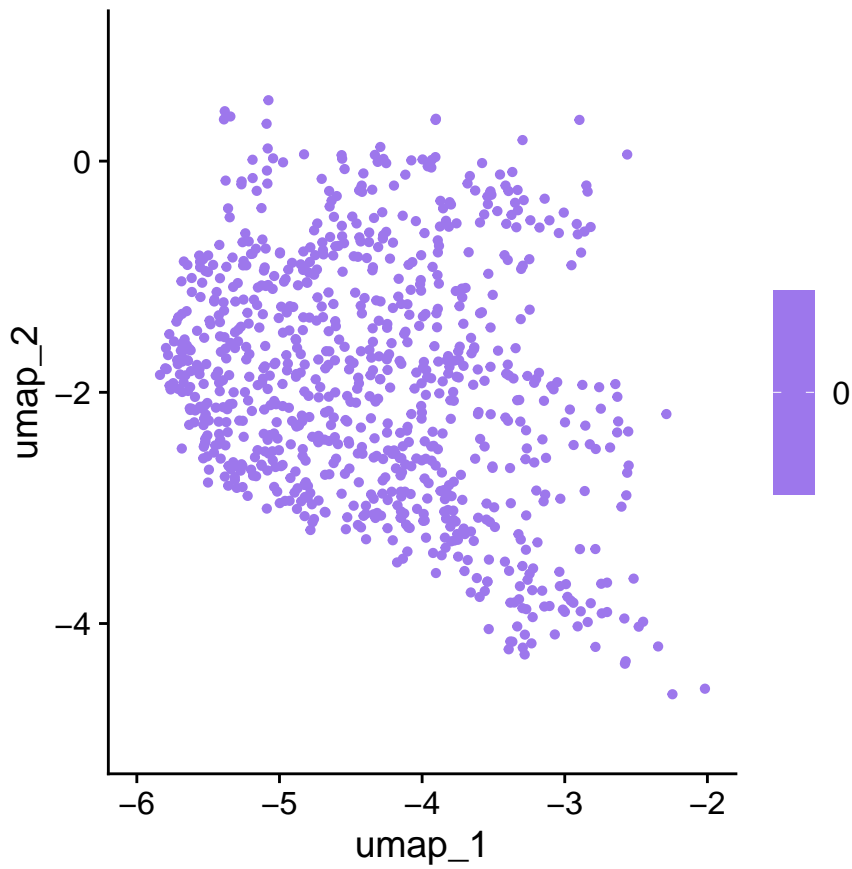
MPP: SOX4



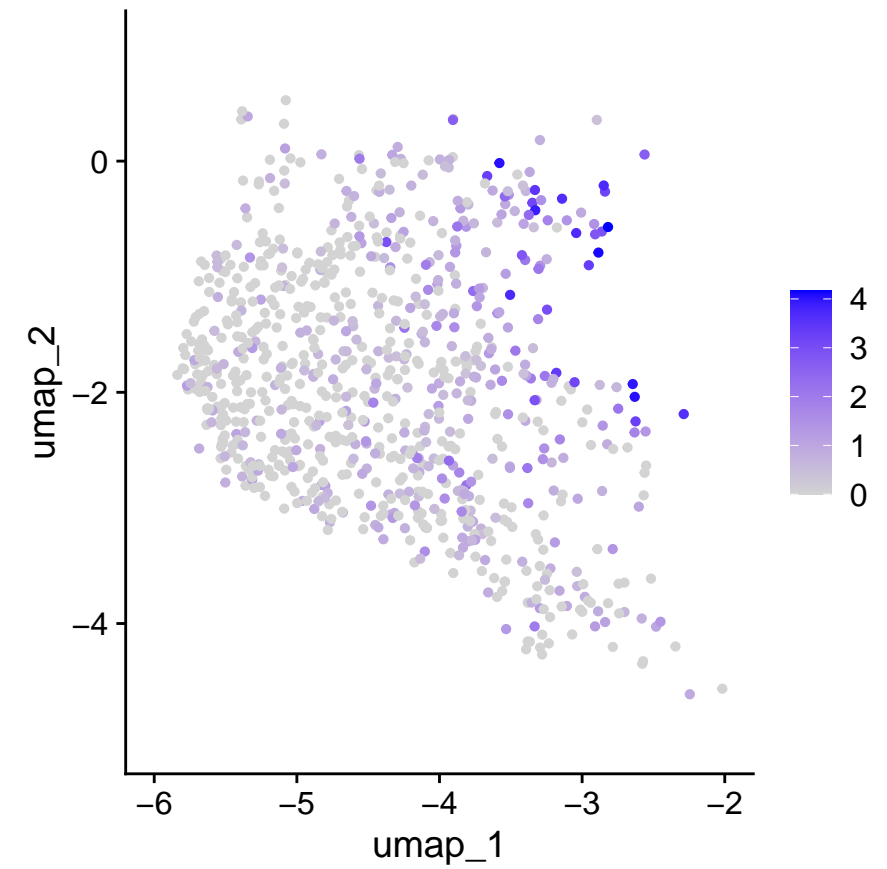
CMP: IL3RA



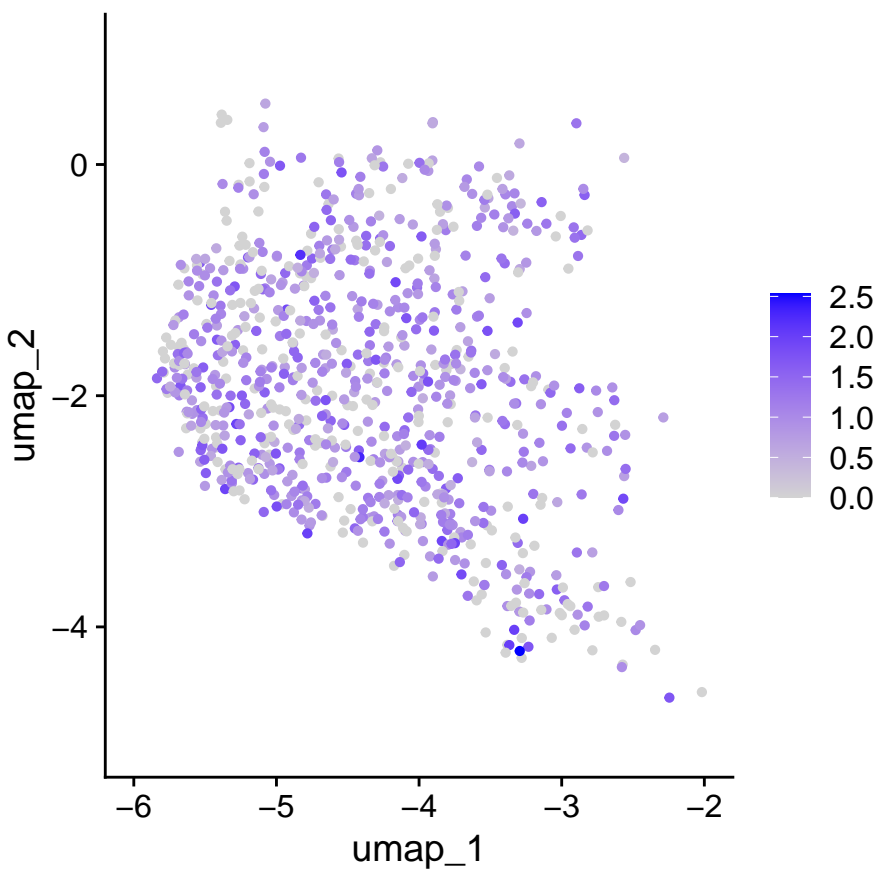
CMP: GATA1 (0)

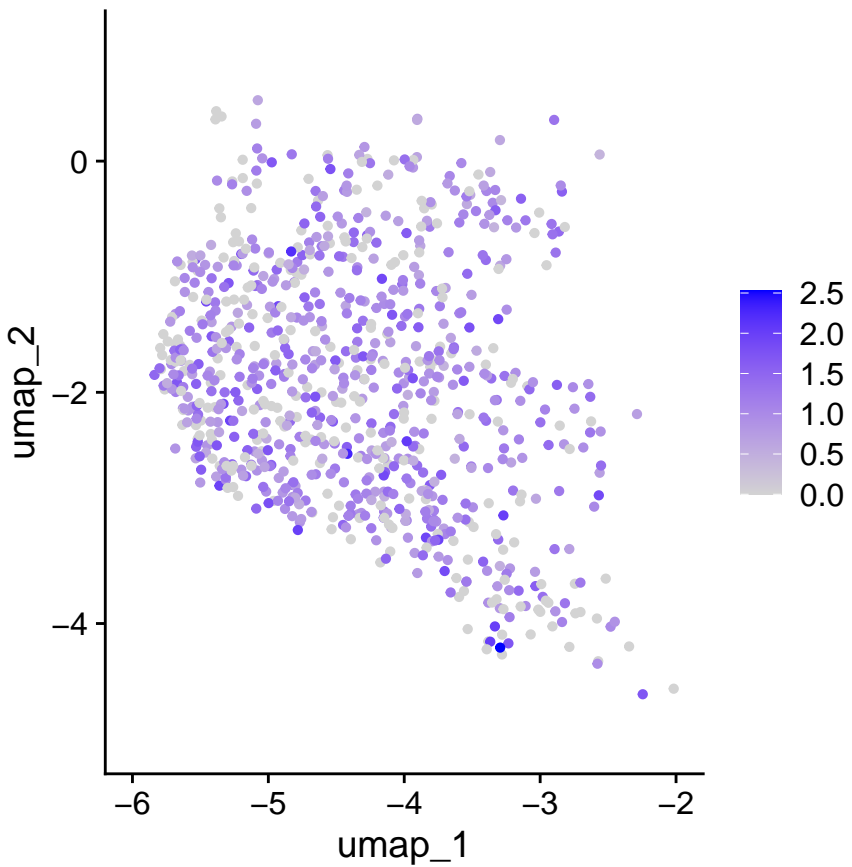
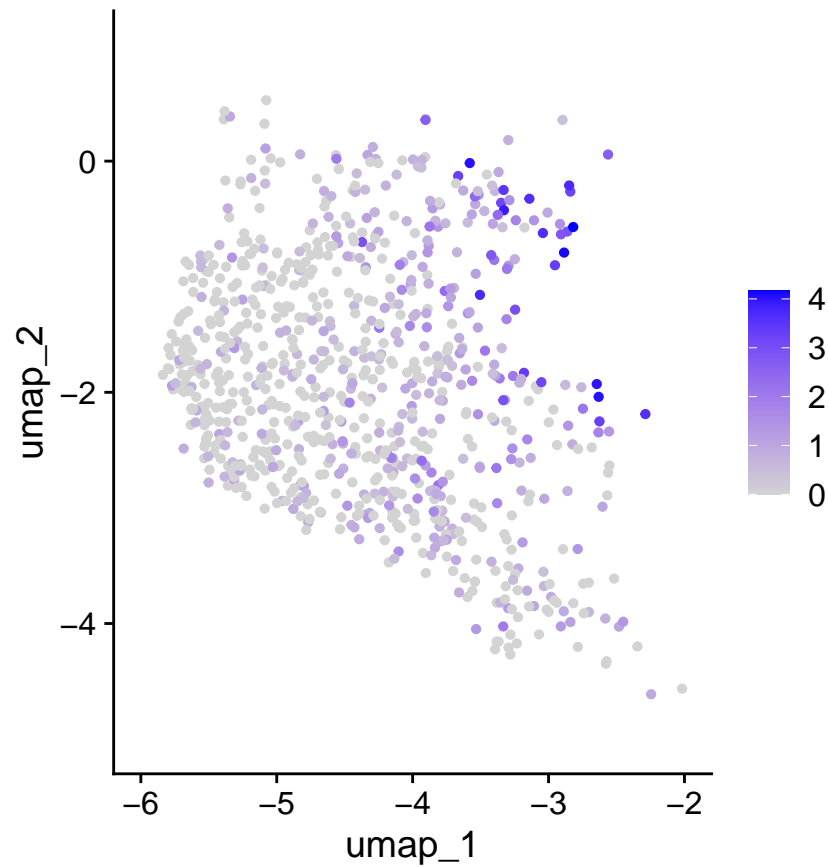
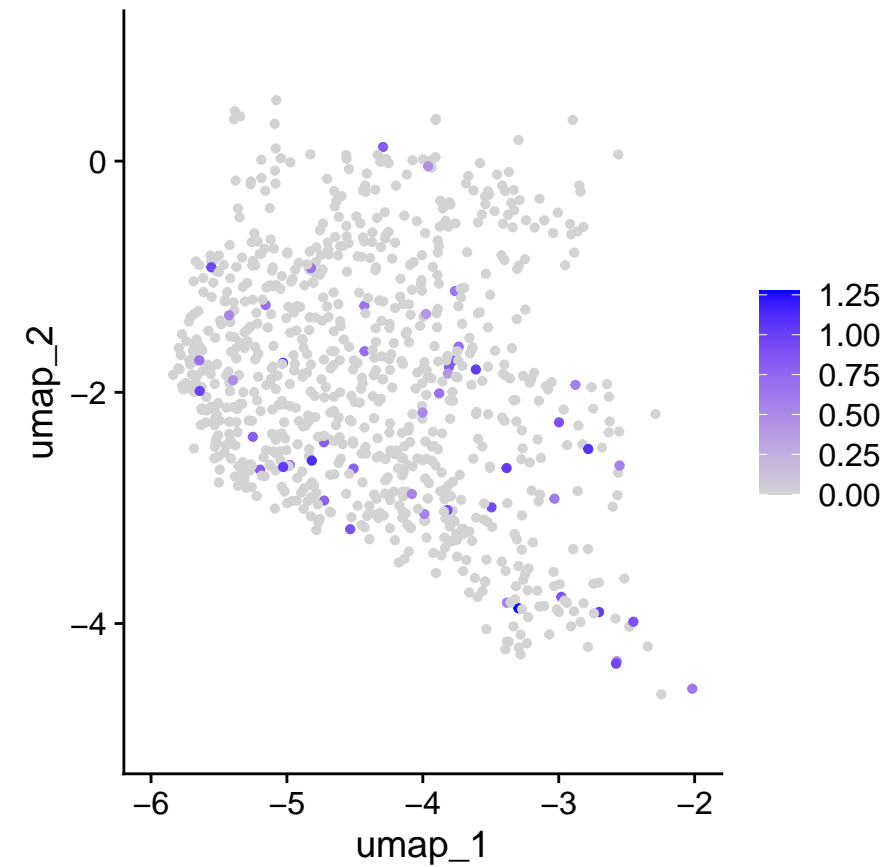
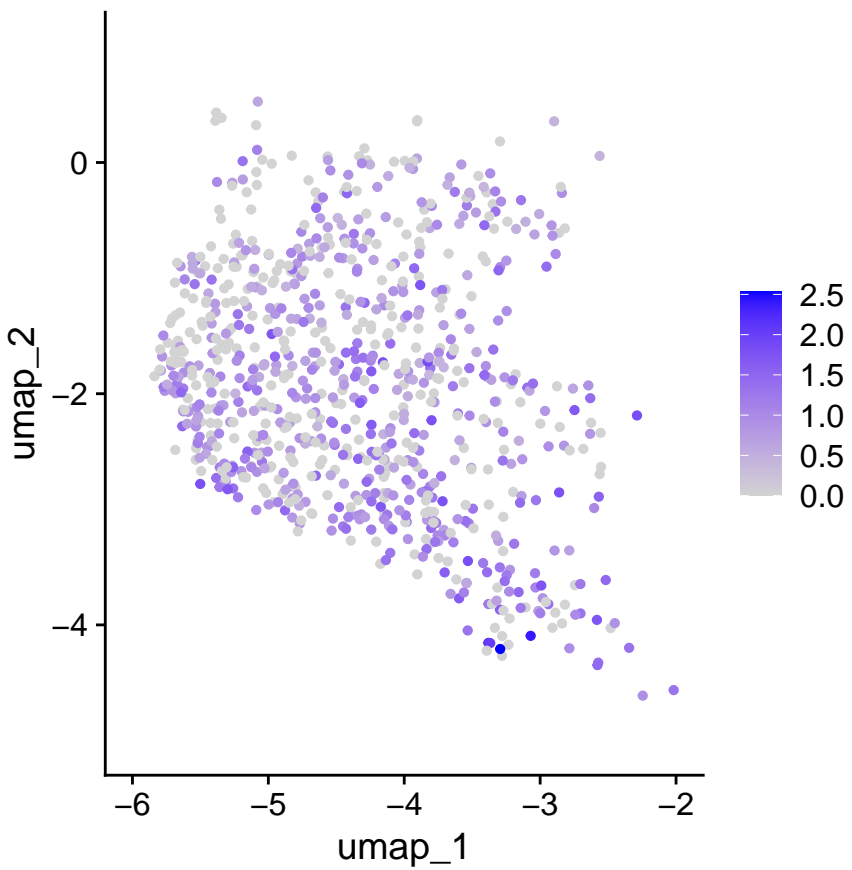
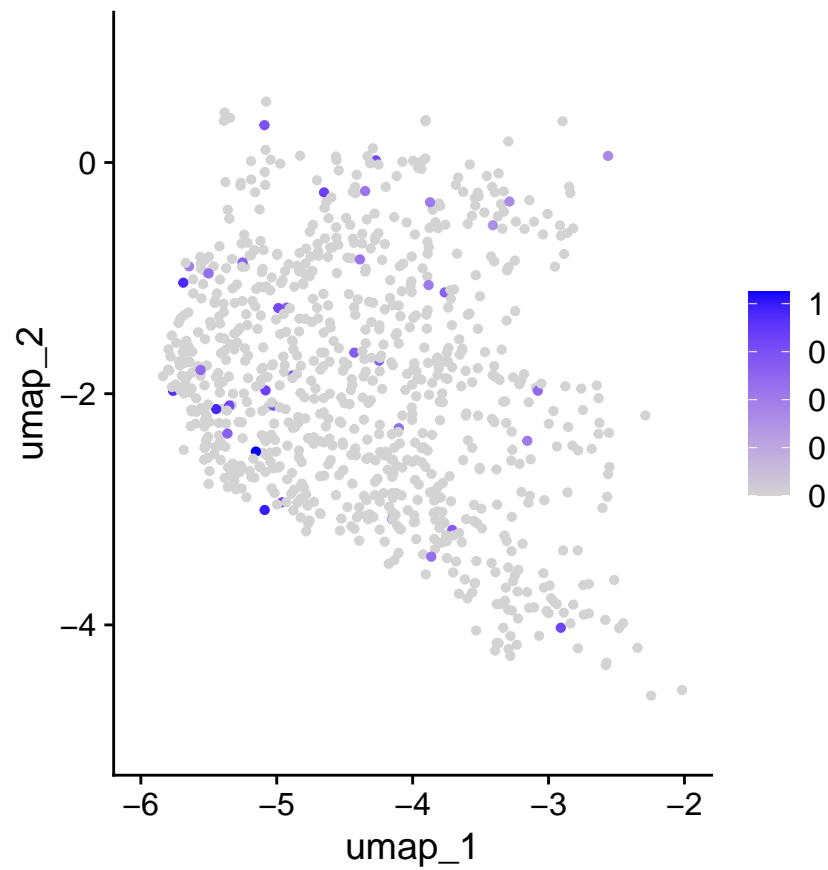
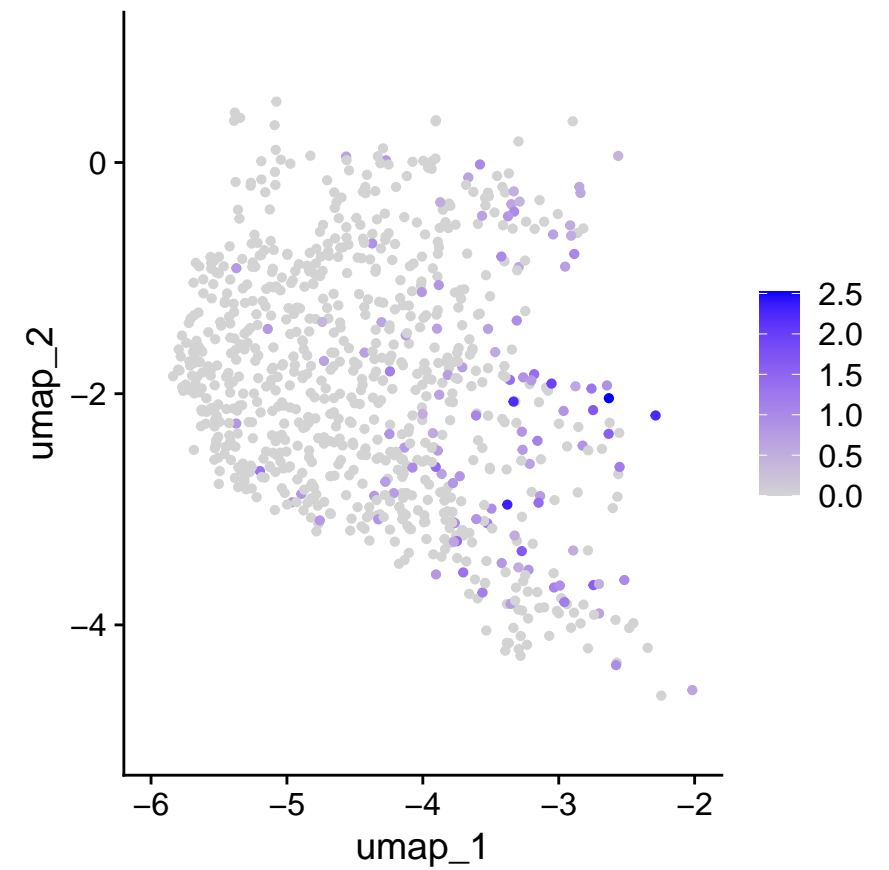


CMP: MPO

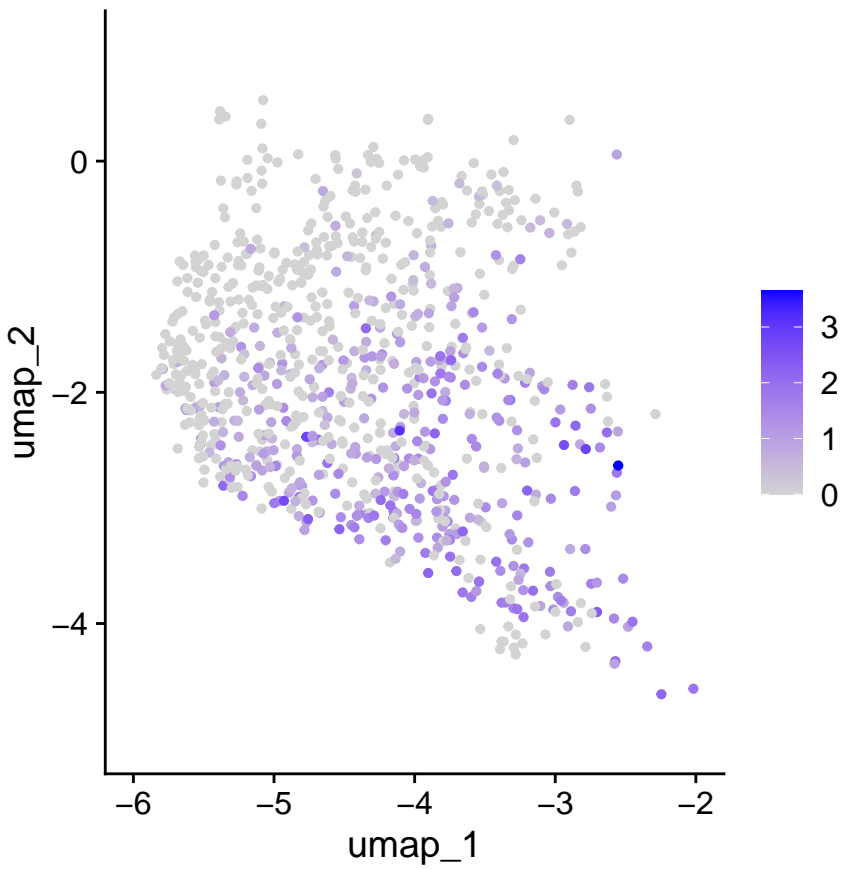


CMP: CEBPA

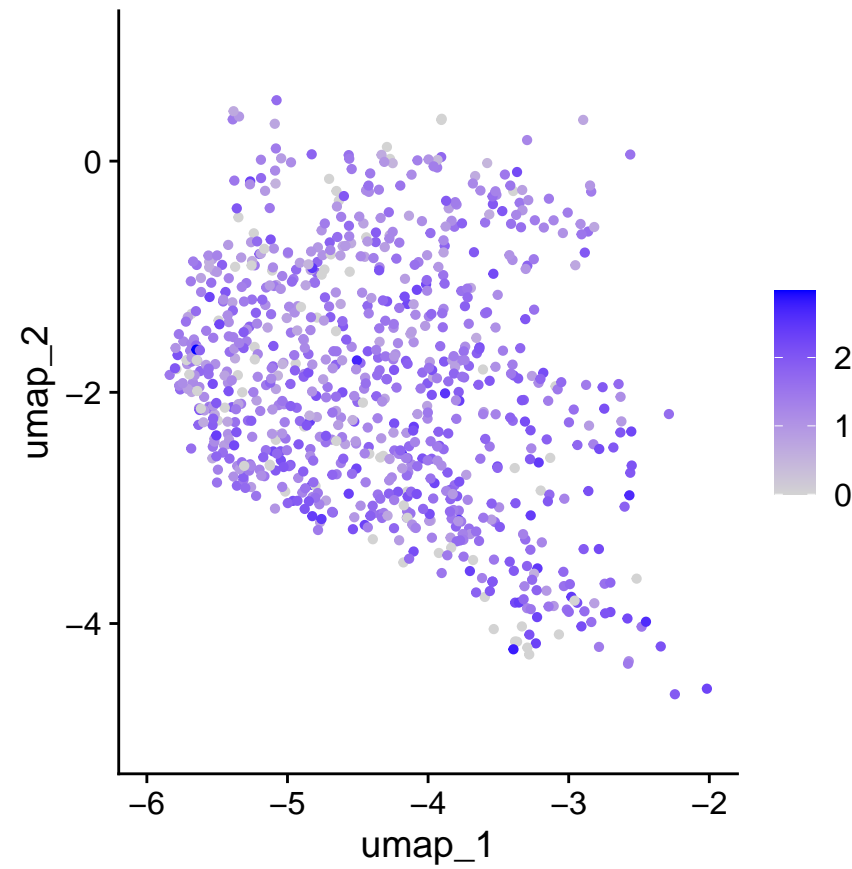


GMP: CEBPA**GMP: MPO****GMP: ITGAM****GMP: CSF3R****GMP: ELANE****GMP: AZU1**

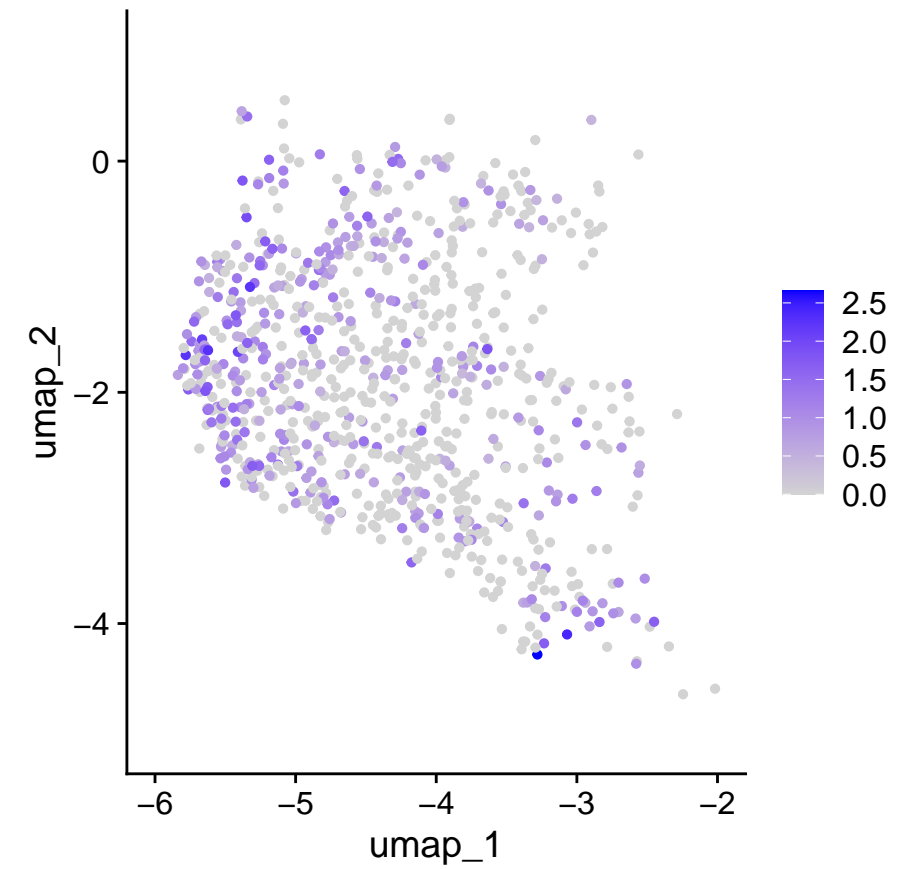
Diff: CD14



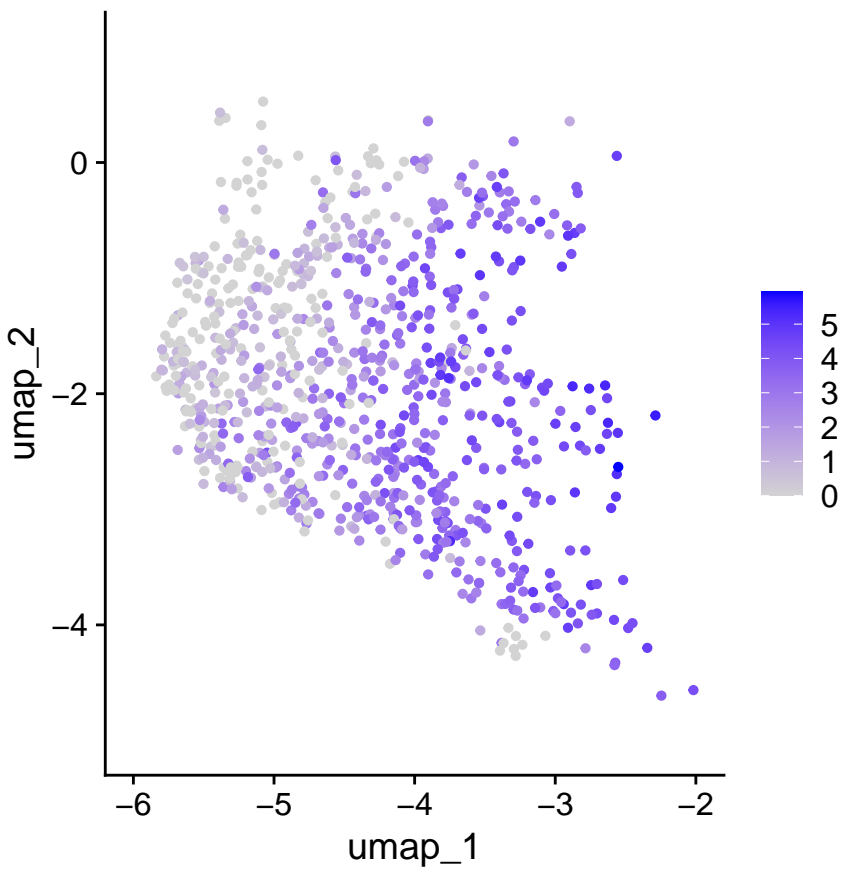
Diff: CD68



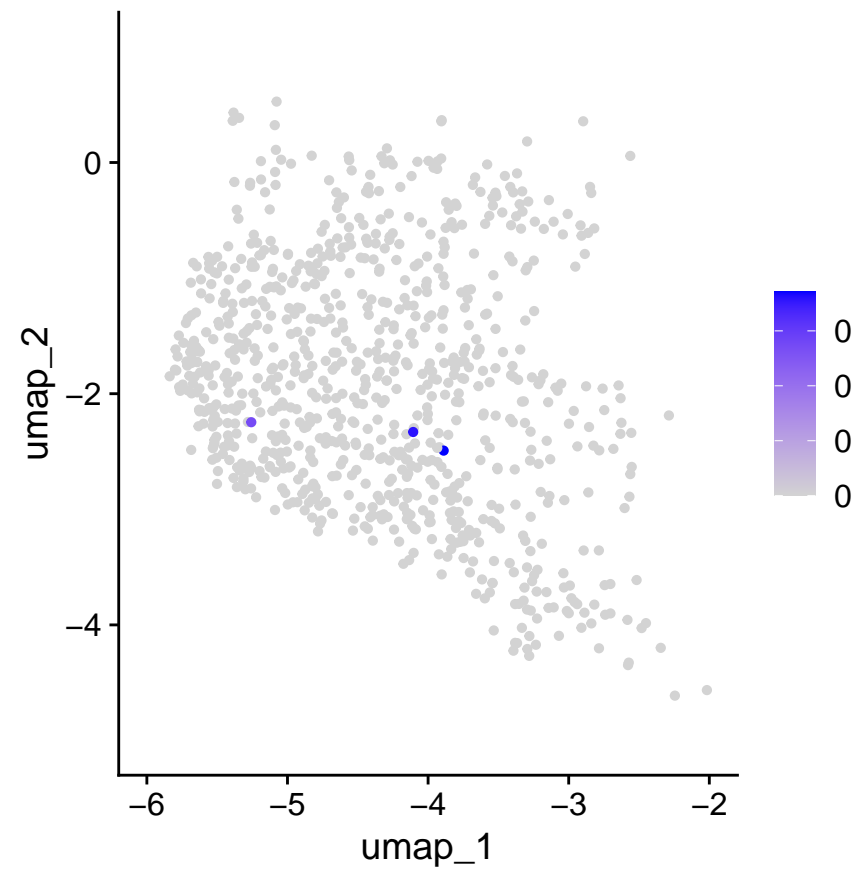
Diff: ITGAX



Diff: S100A9



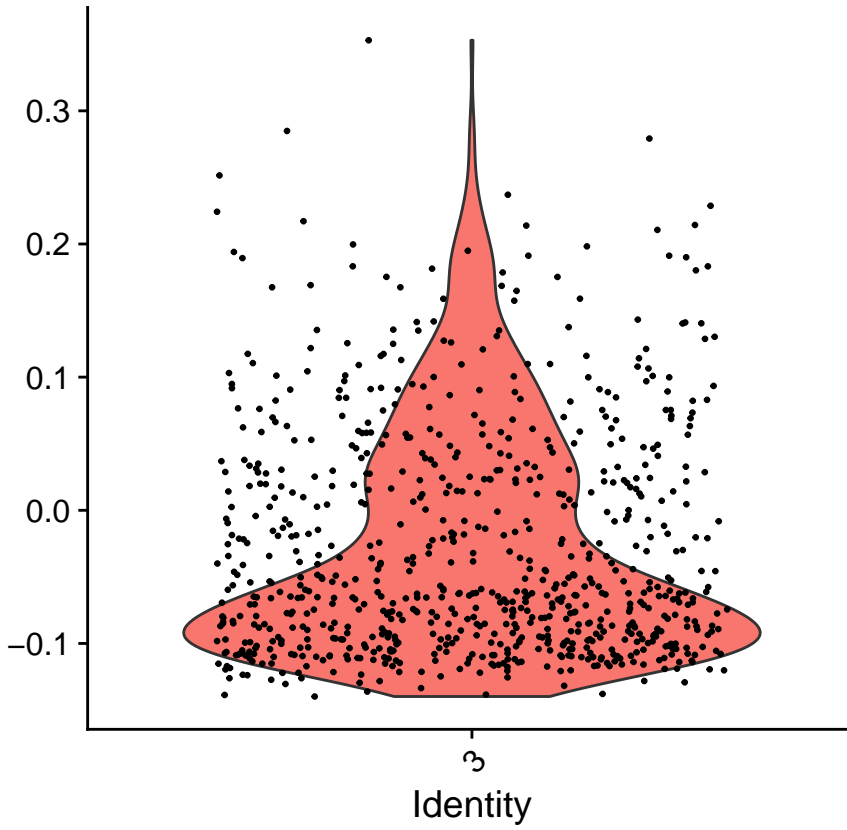
Diff: FCGR3A



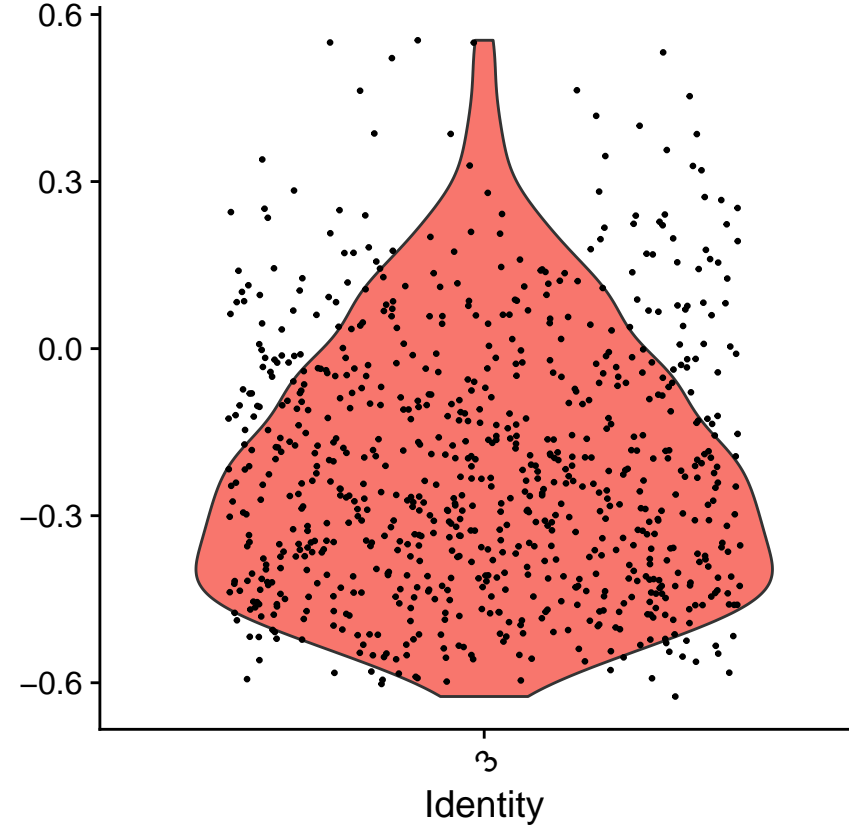
| | Stage | Cell_Count |
|---|--------------|-------------------|
| 1 | CMP_score1 | 336 |
| 2 | Diff_score1 | 277 |
| 3 | GMP_score1 | 140 |
| 4 | HSC_score1 | 20 |
| 5 | MPP_score1 | 14 |

Cluster 3 – Score Violin Plot

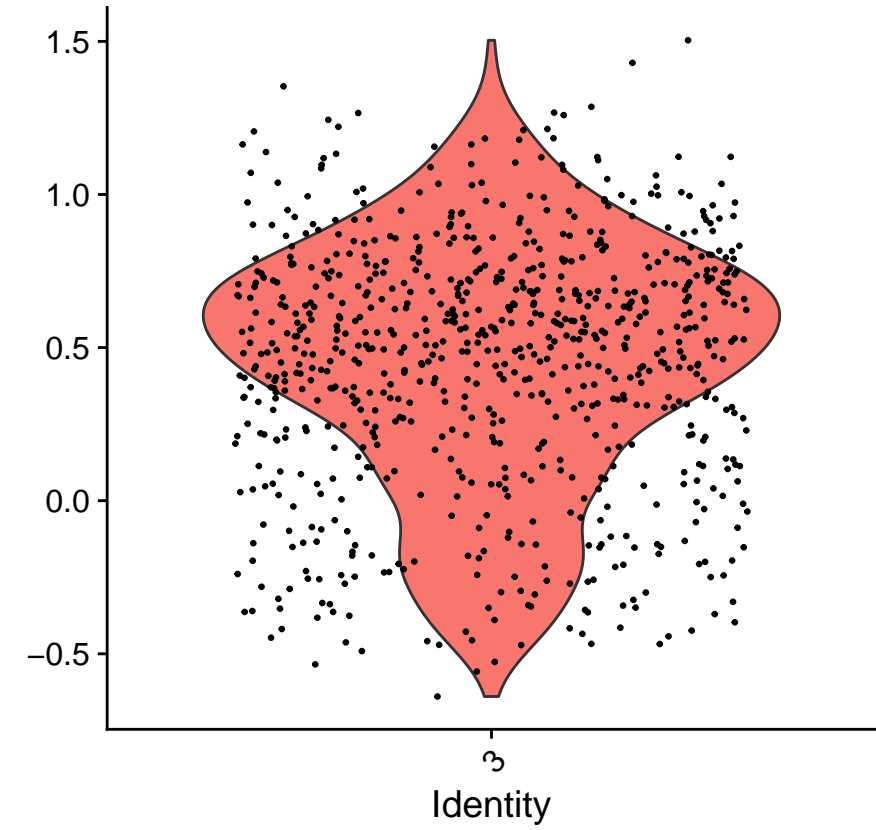
HSC_score1



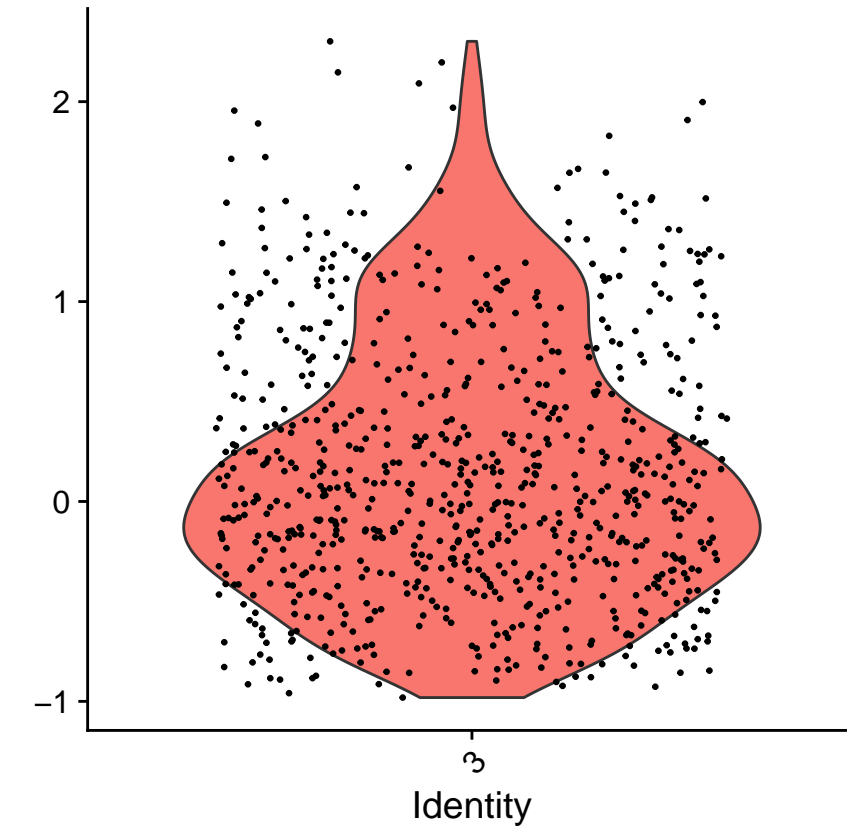
MPP_score1



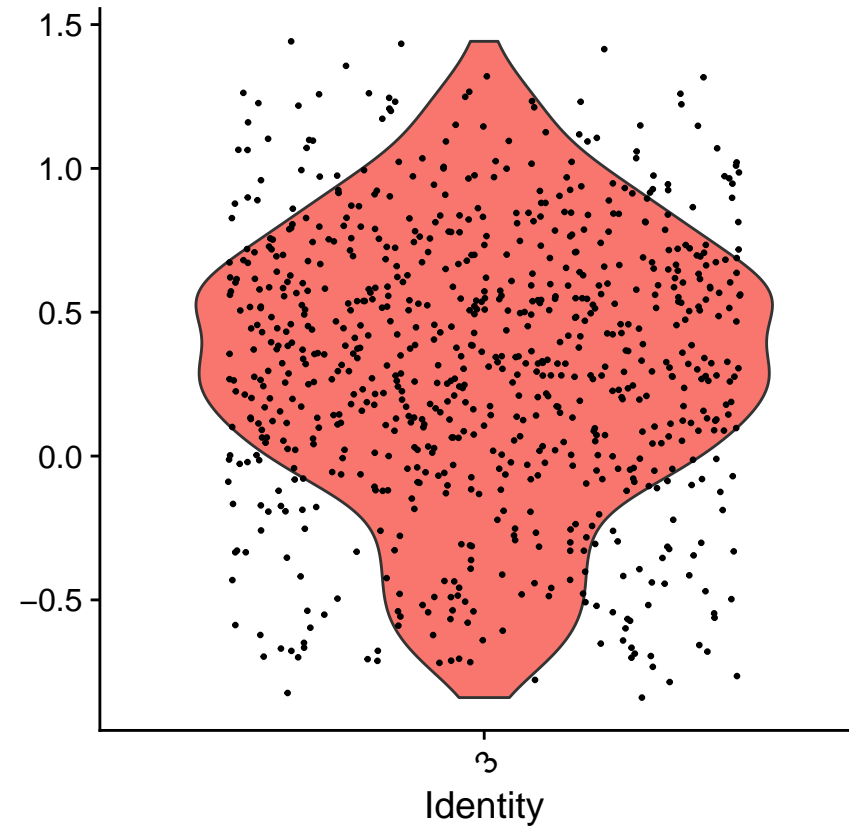
CMP_score1

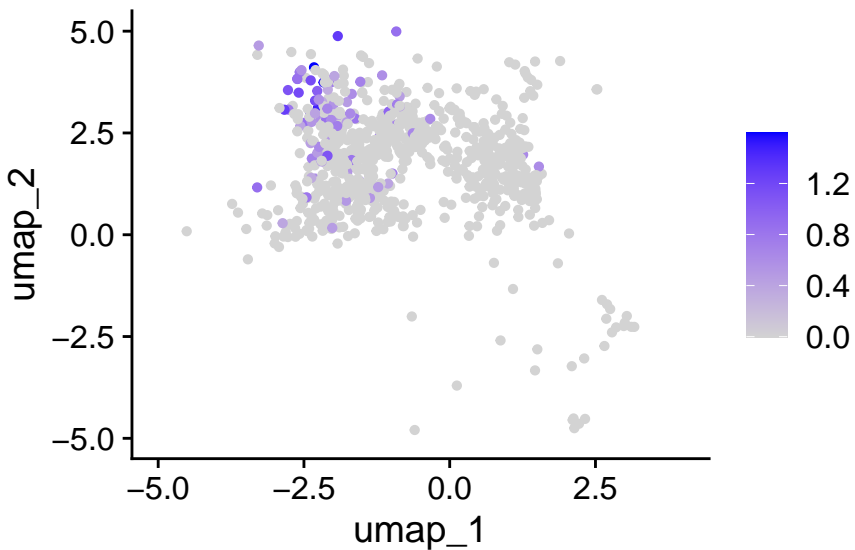
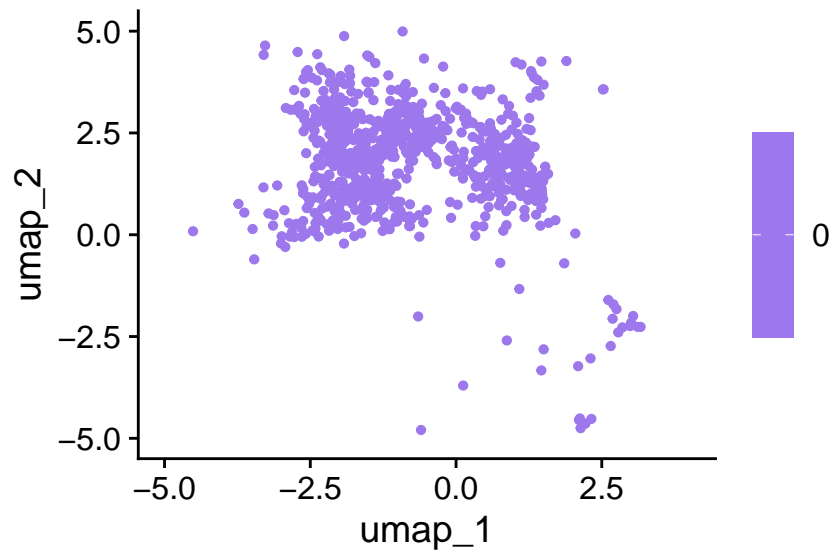
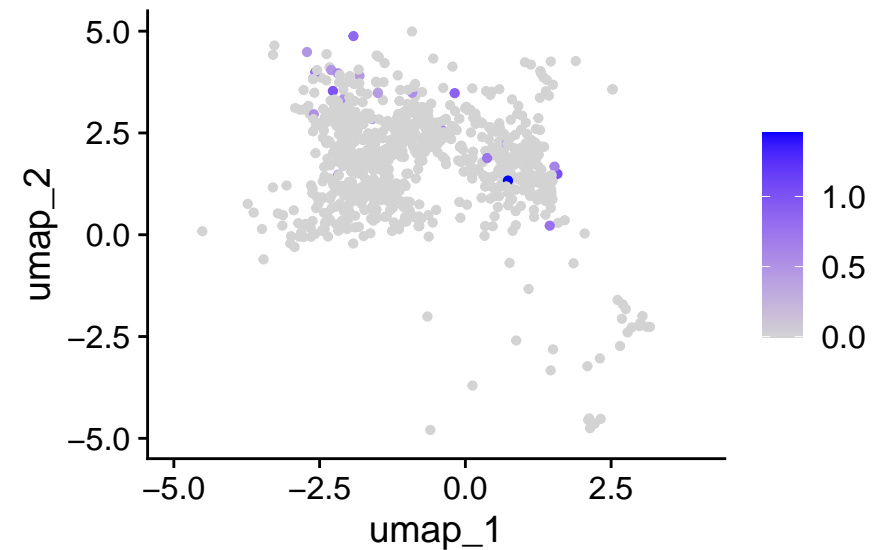
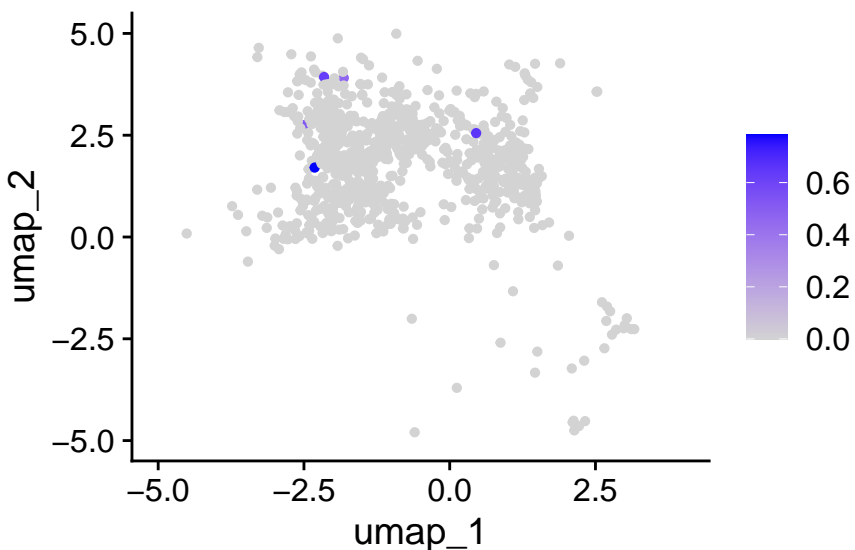
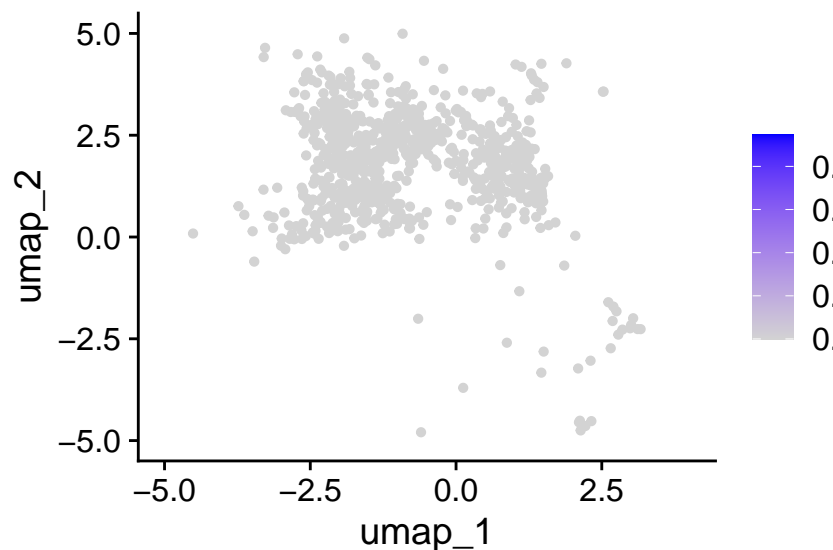
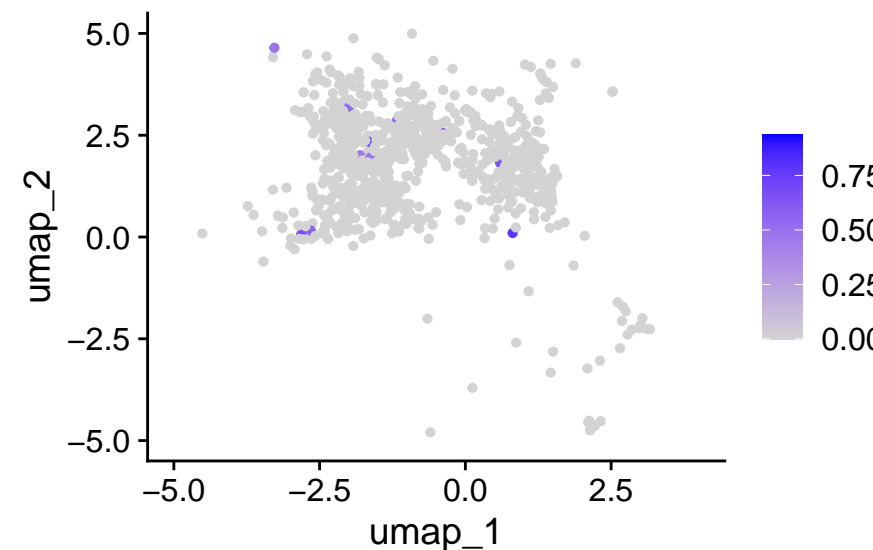
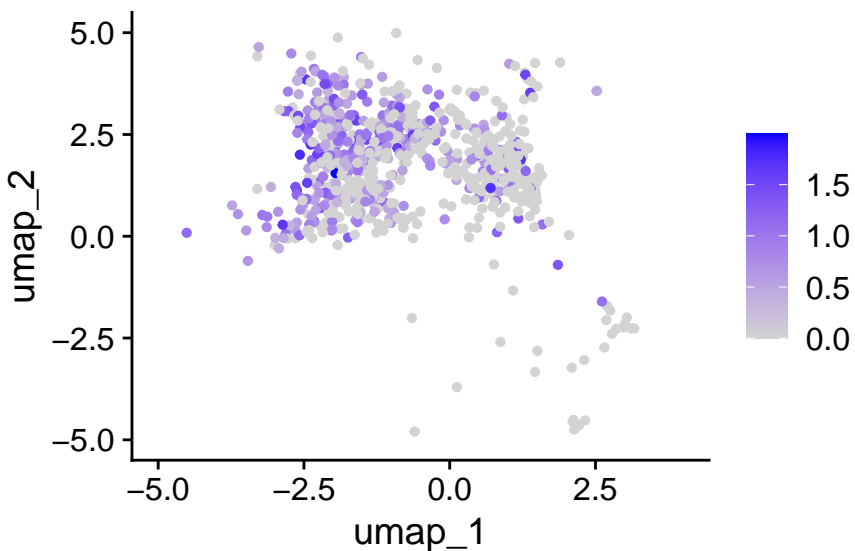


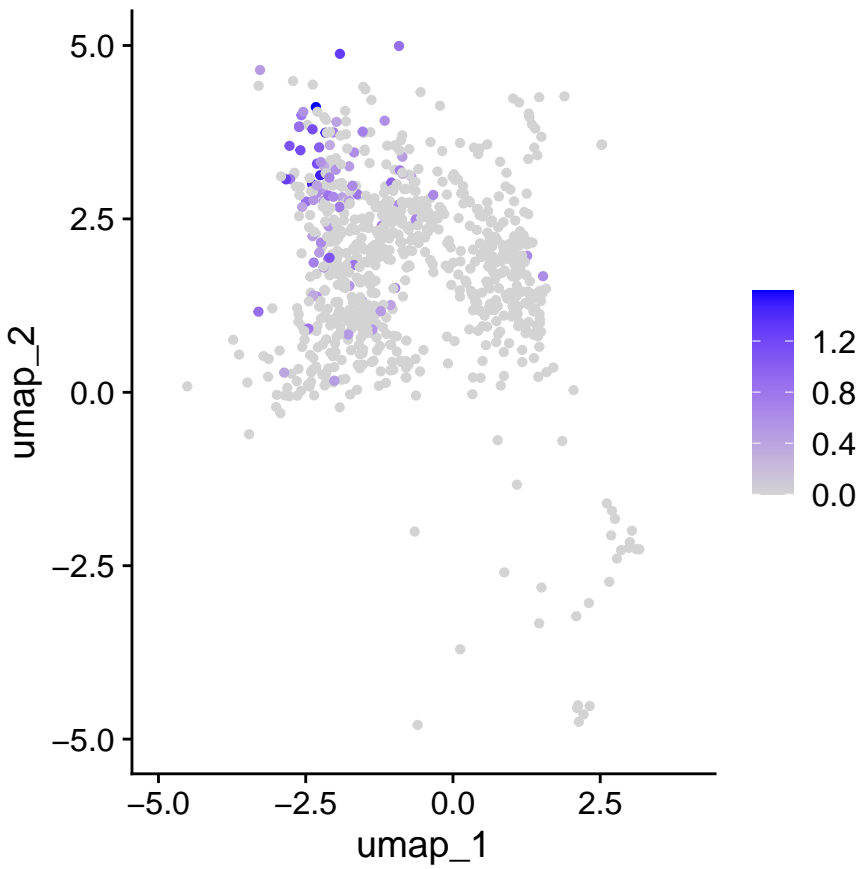
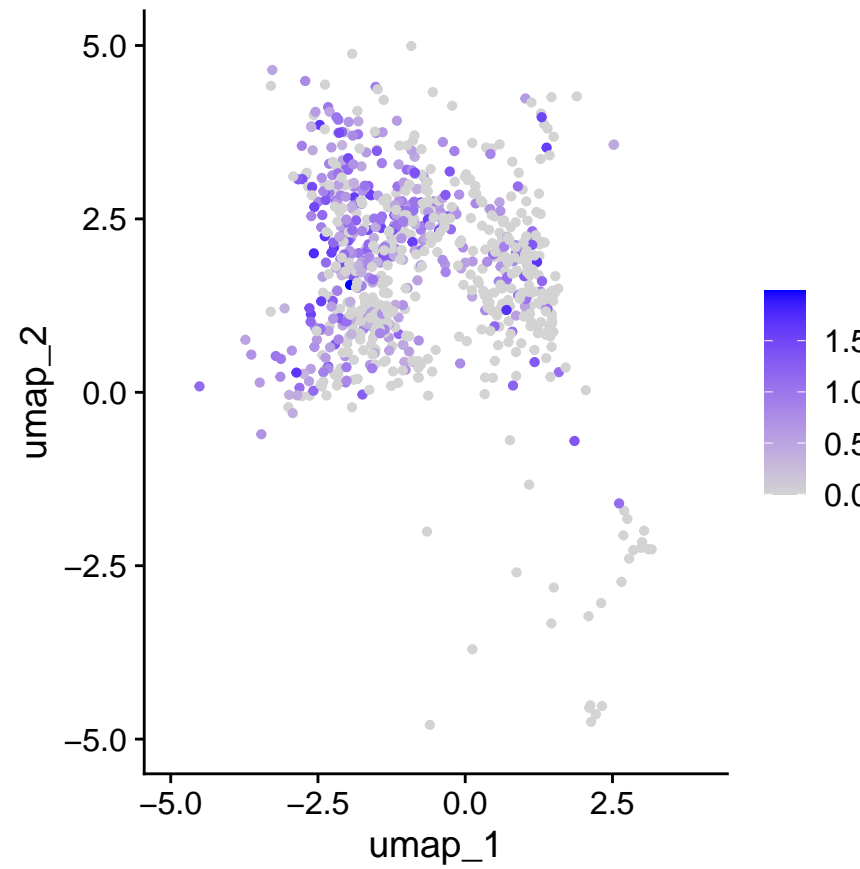
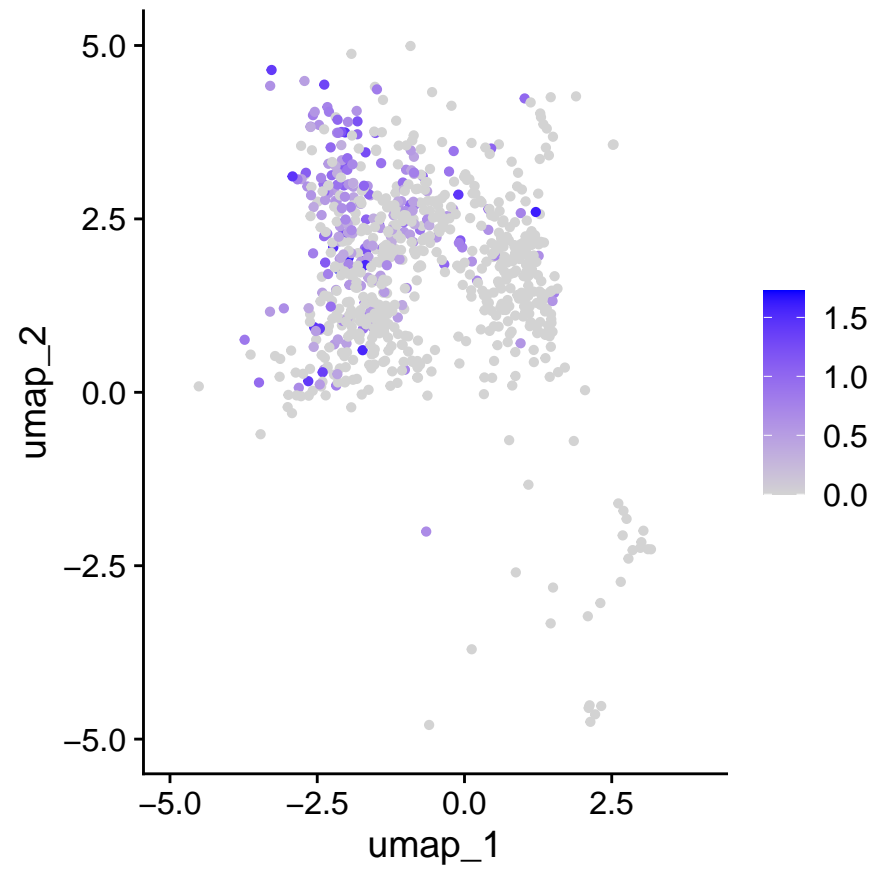
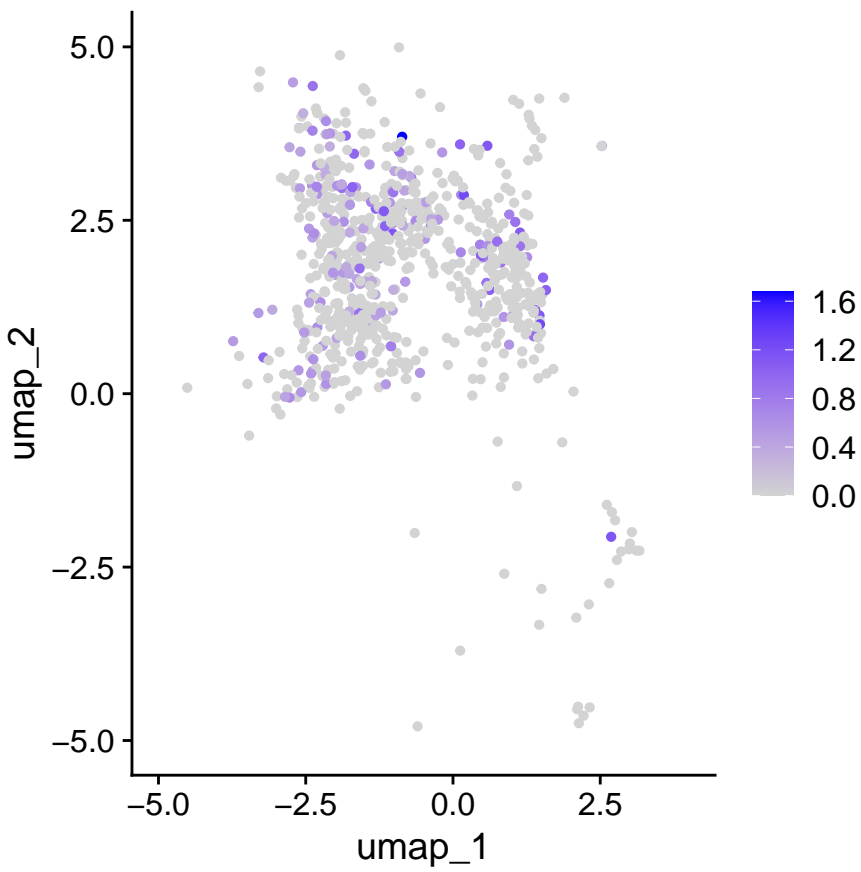
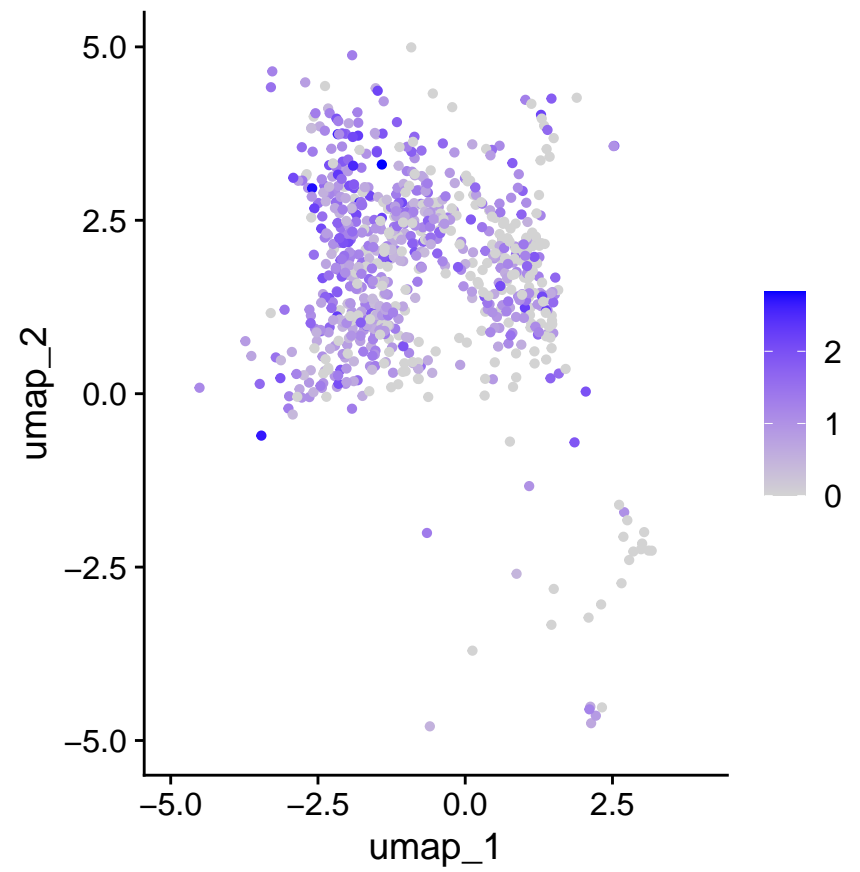
GMP_score1



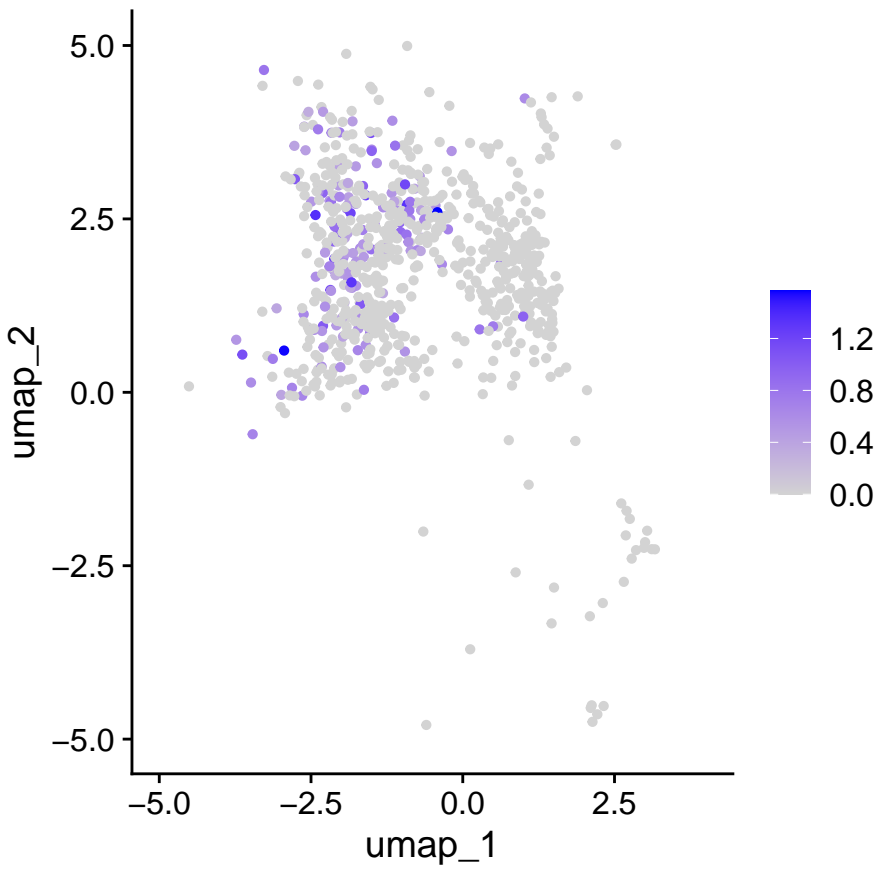
Diff_score1



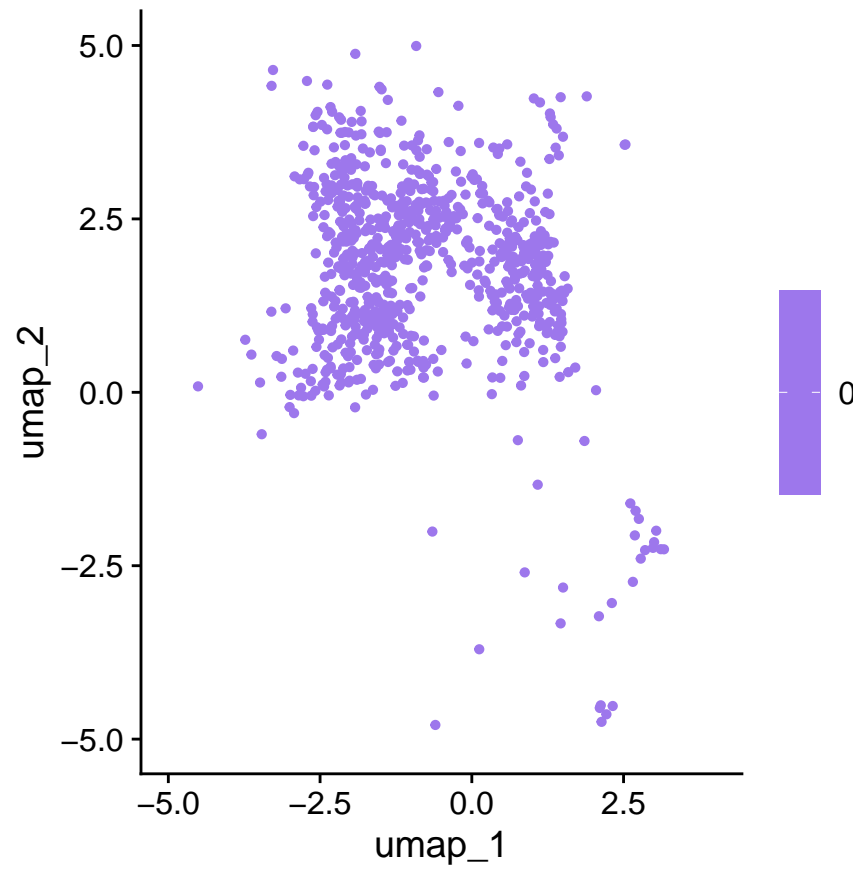
HSC: CD34**HSC: AVP (0)****HSC: PROM1****HSC: MEIS1****HSC: GATA2****HSC: HOXA9****HSC: FLT3**

MPP: CD34**MPP: FLT3****MPP: KIT****MPP: CD38****MPP: SOX4**

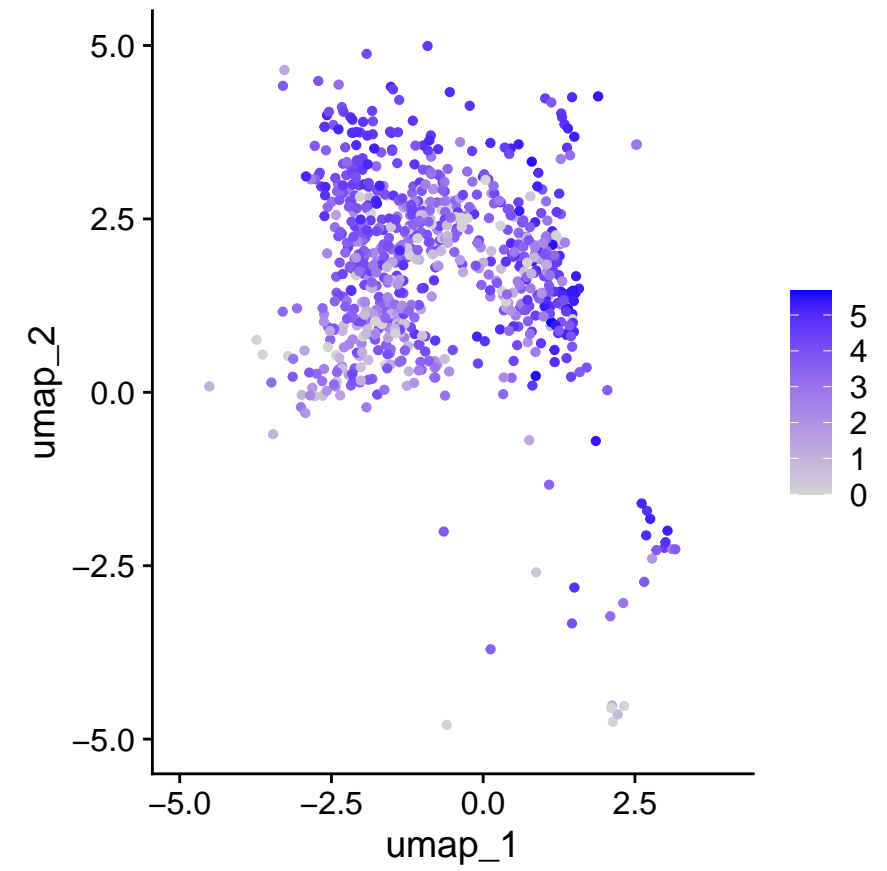
CMP: IL3RA



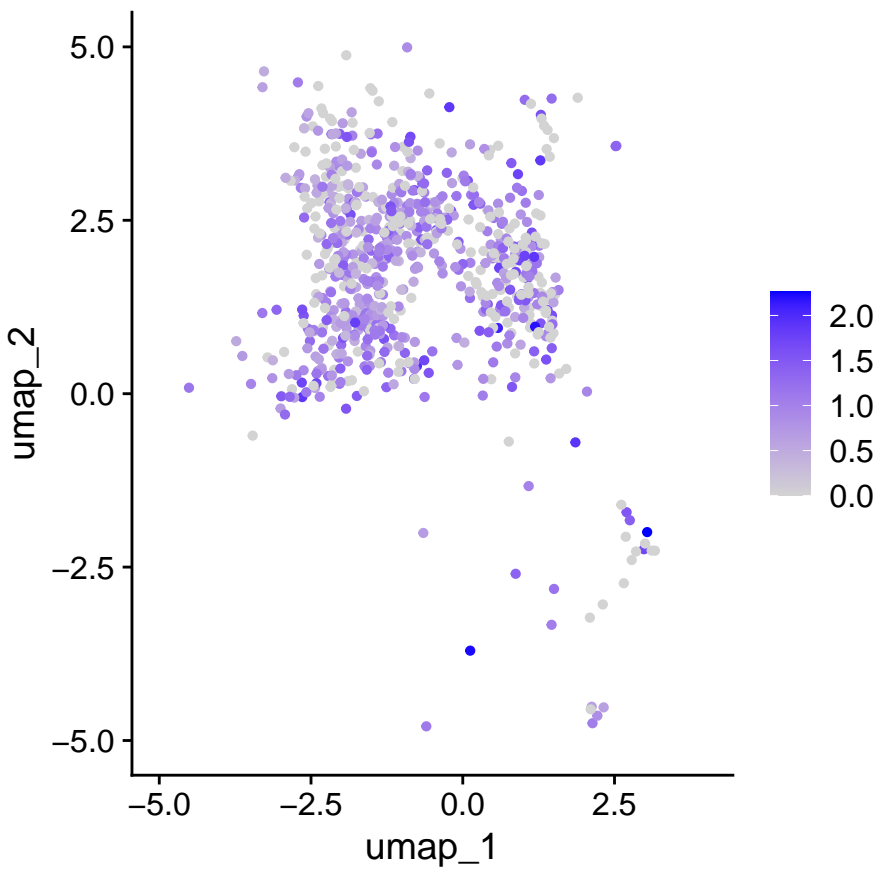
CMP: GATA1 (0)

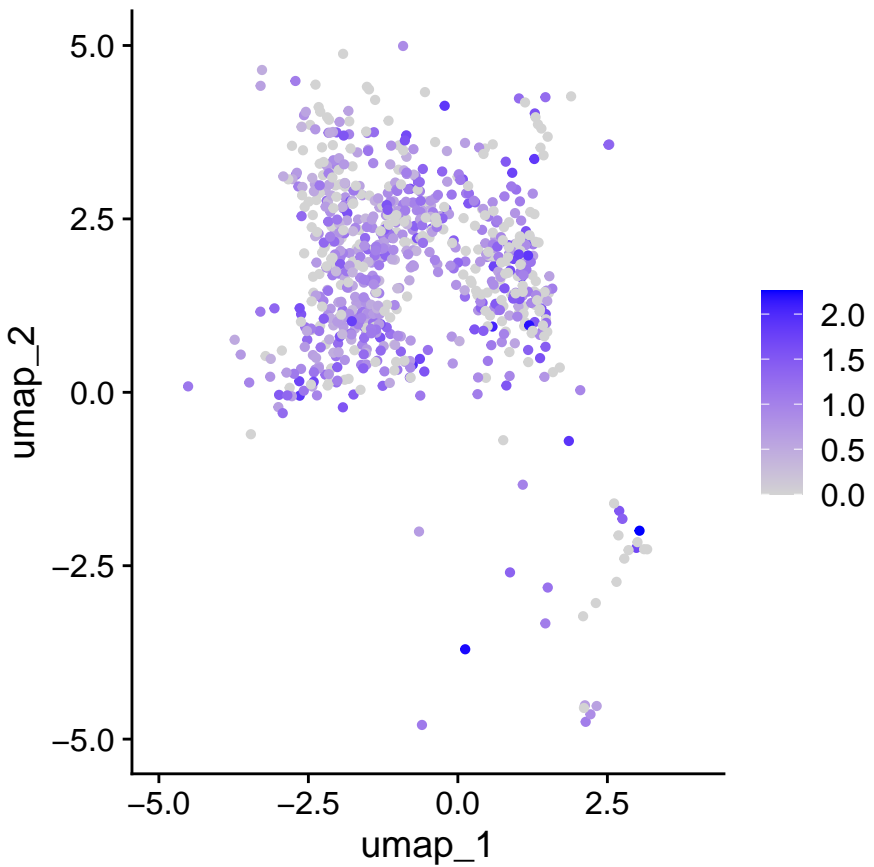
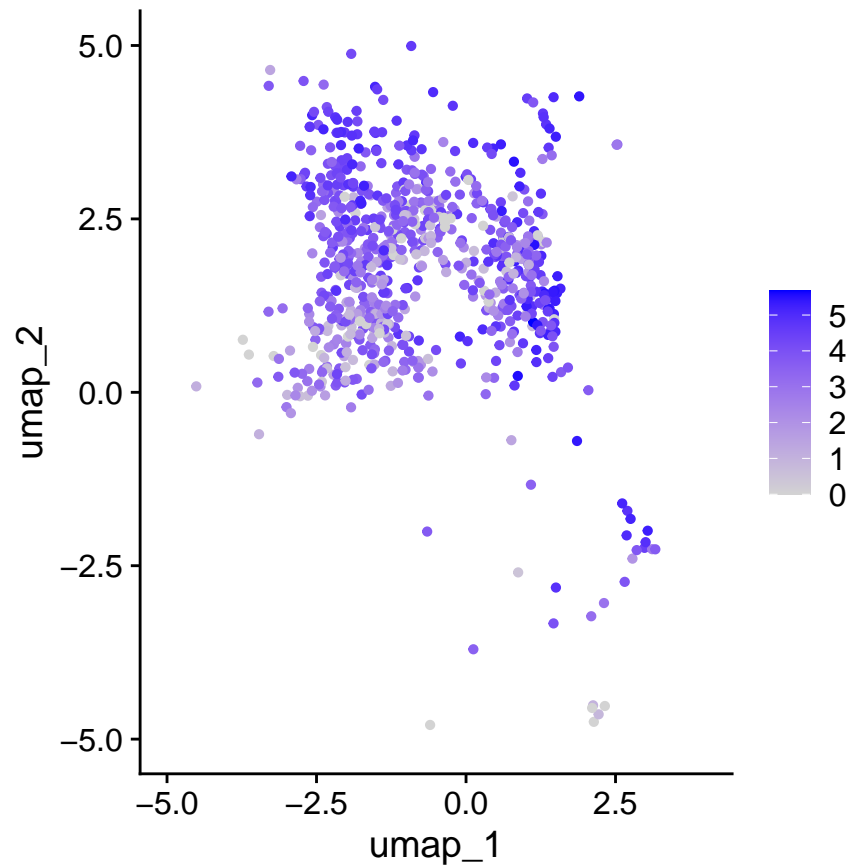
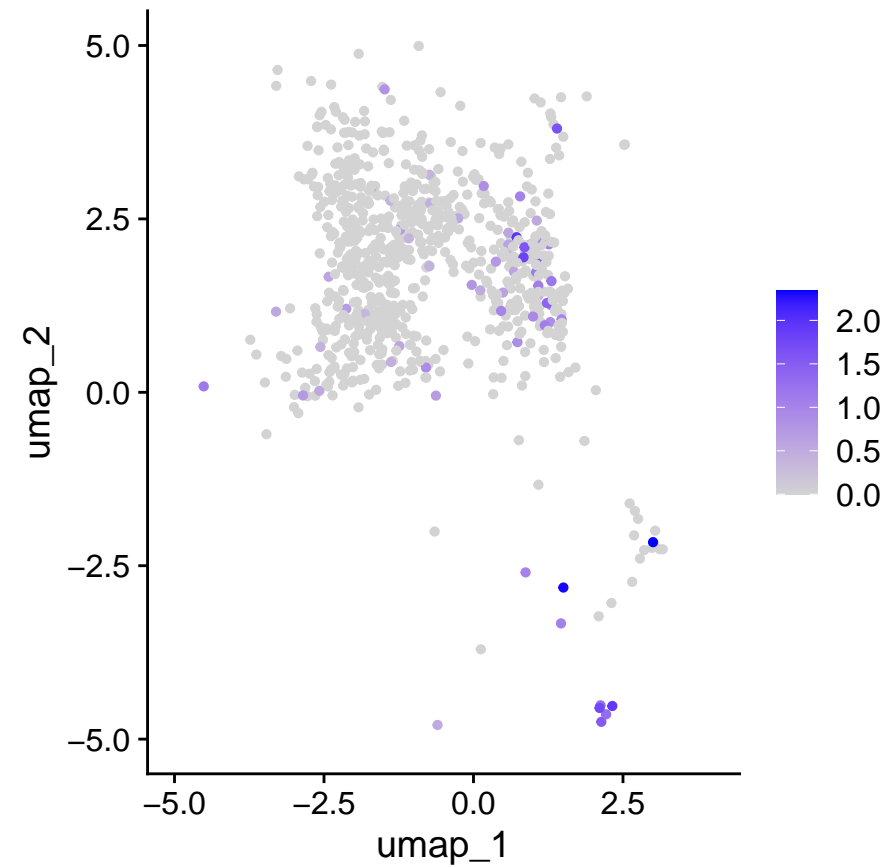
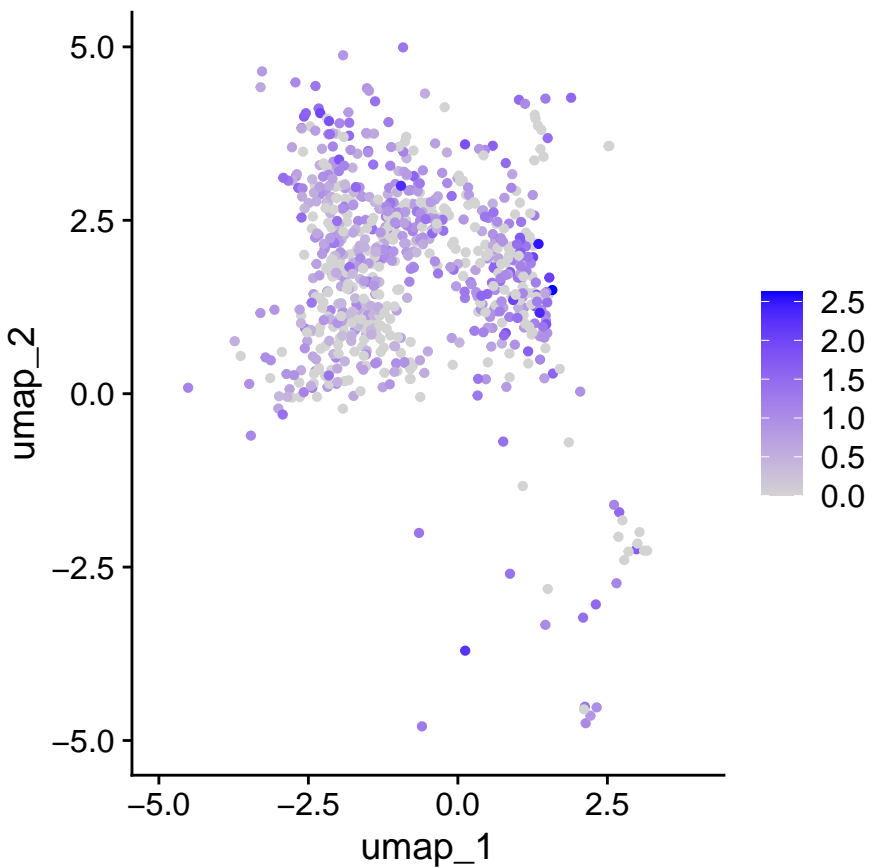
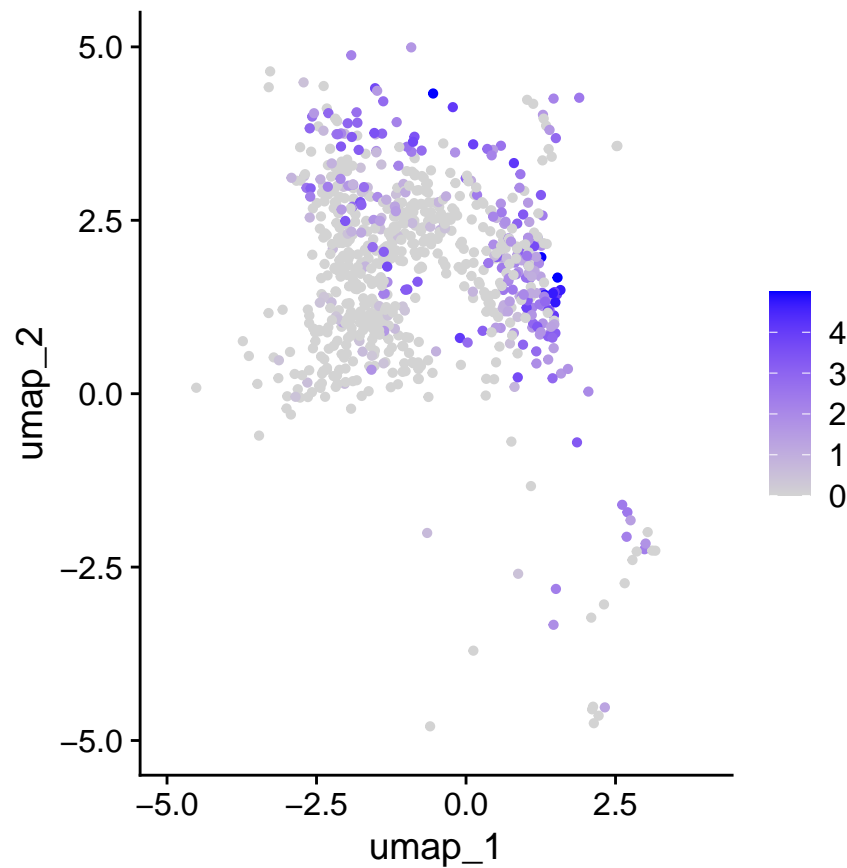
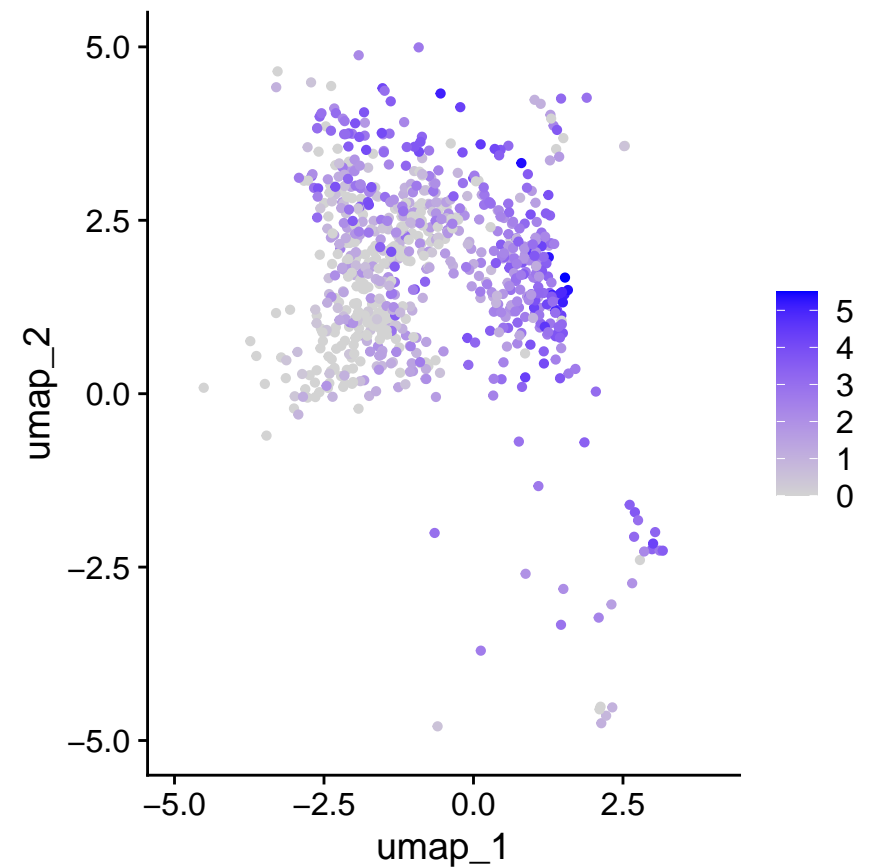


CMP: MPO

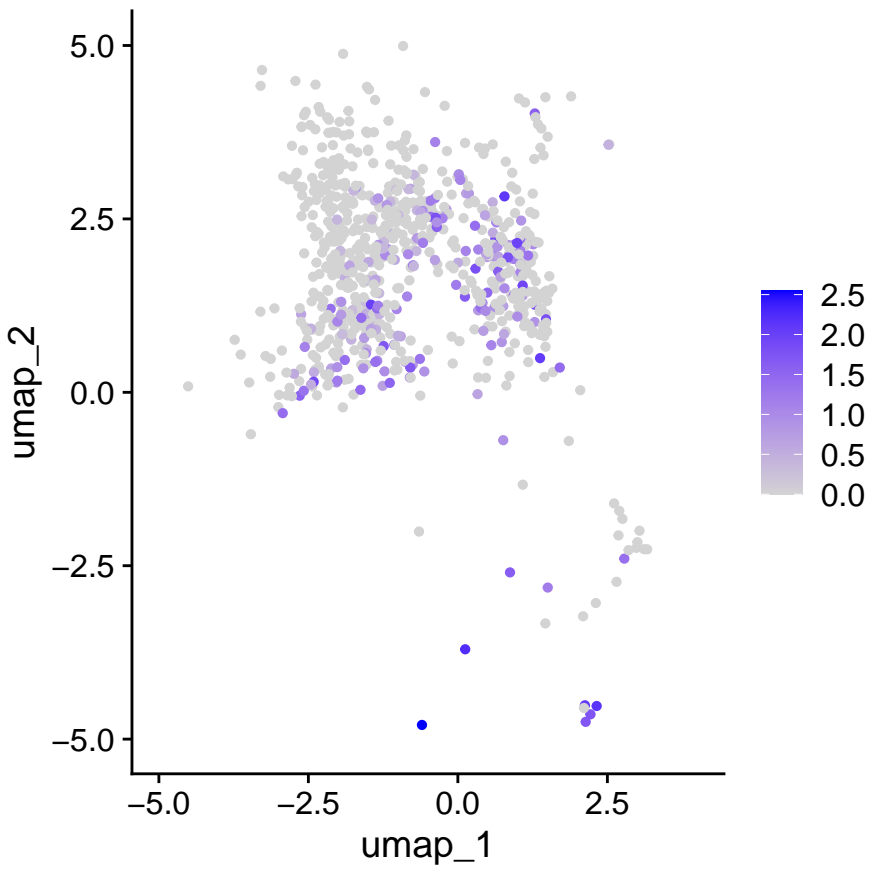


CMP: CEBPA

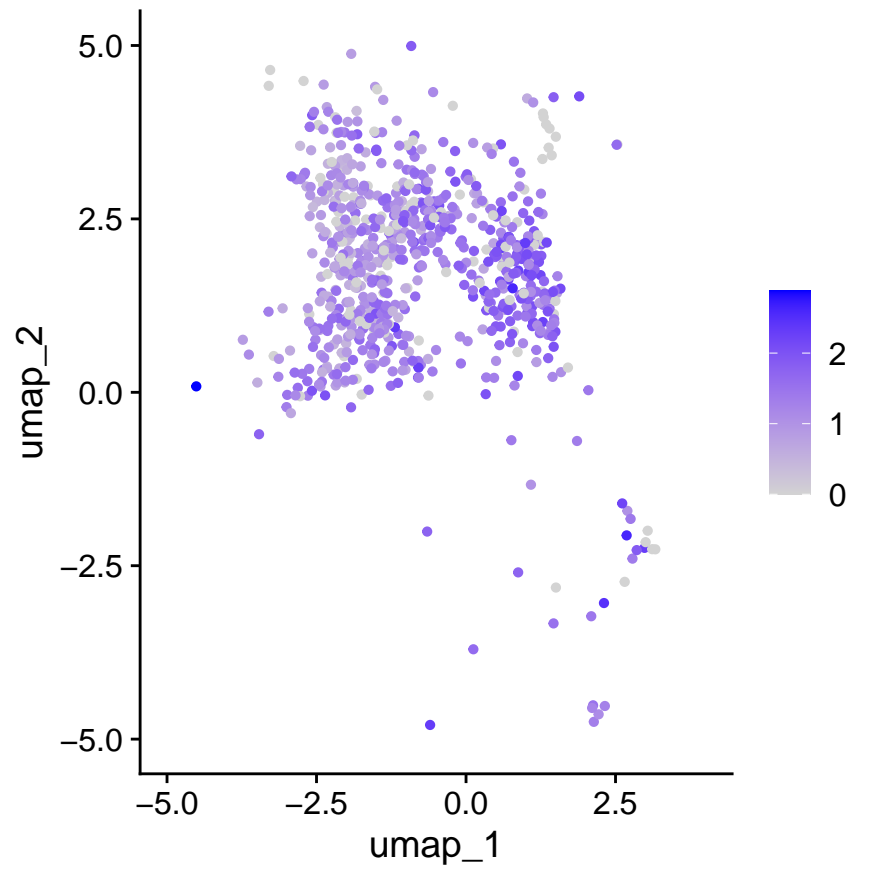


GMP: CEBPA**GMP: MPO****GMP: ITGAM****GMP: CSF3R****GMP: ELANE****GMP: AZU1**

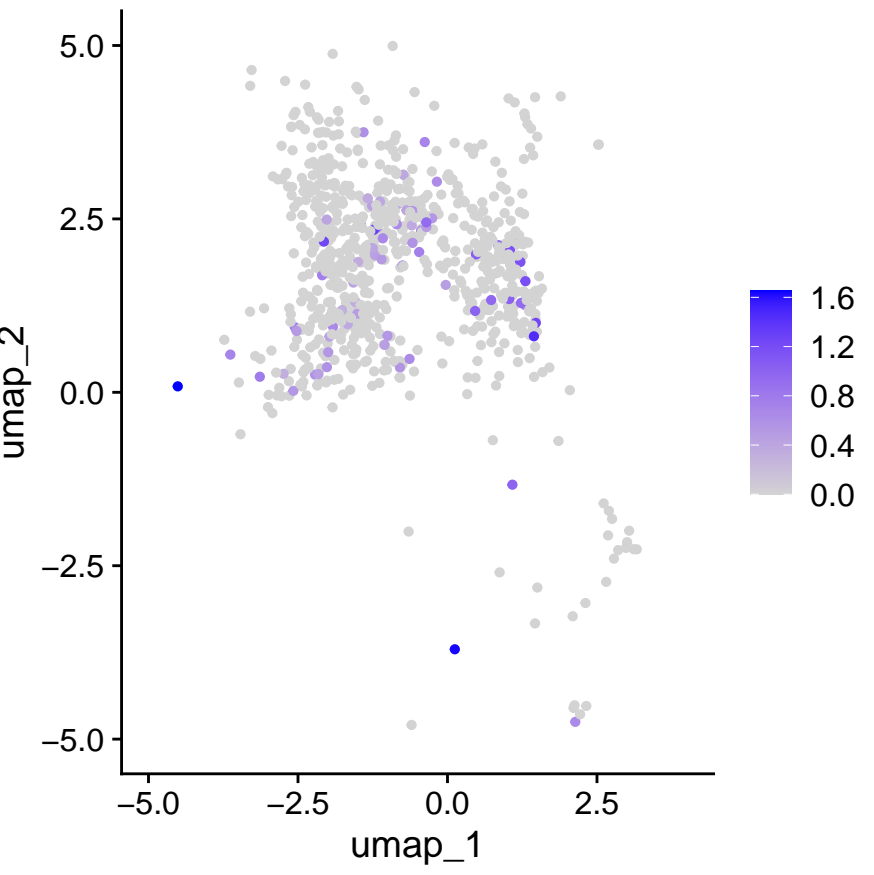
Diff: CD14



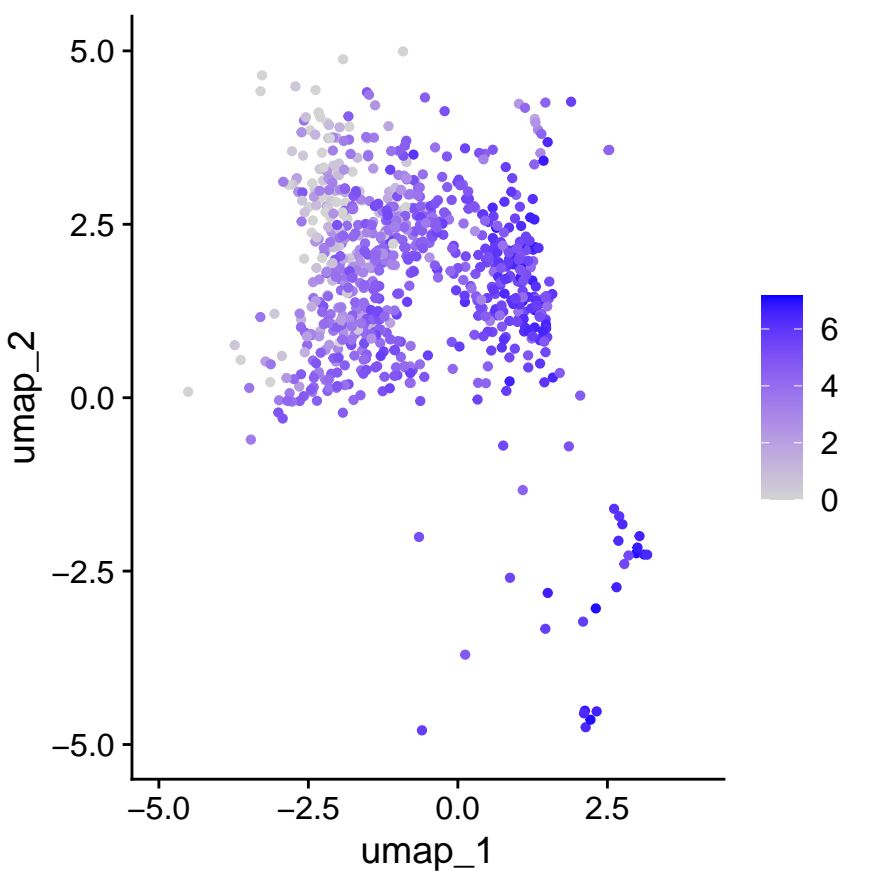
Diff: CD68



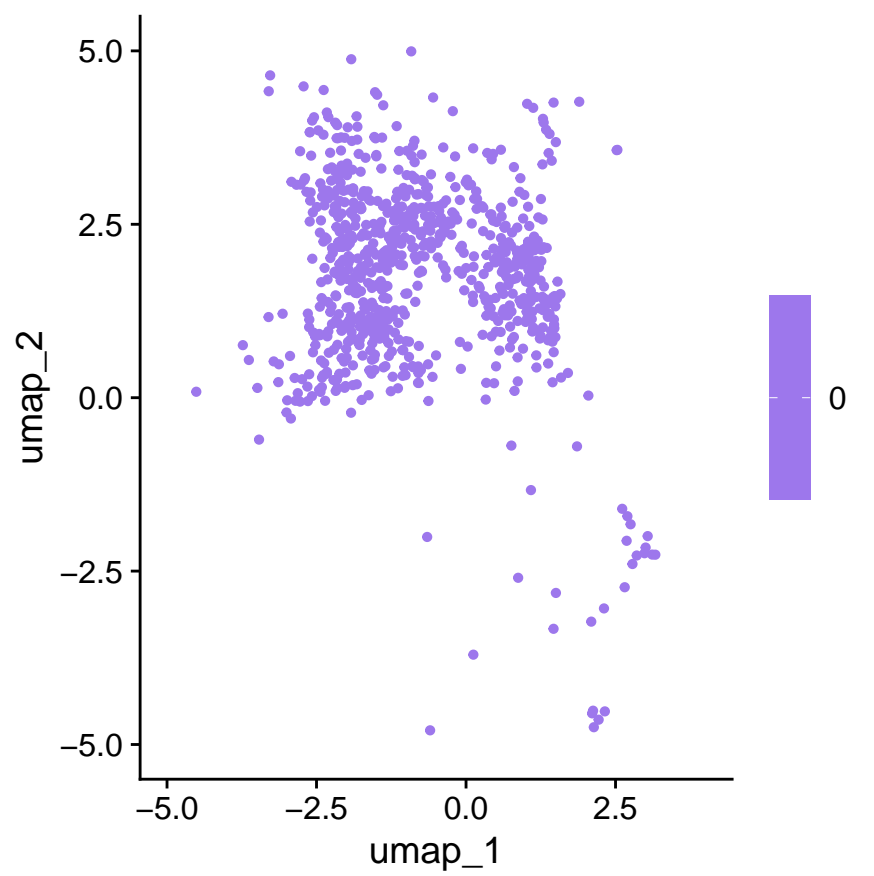
Diff: ITGAX



Diff: S100A9



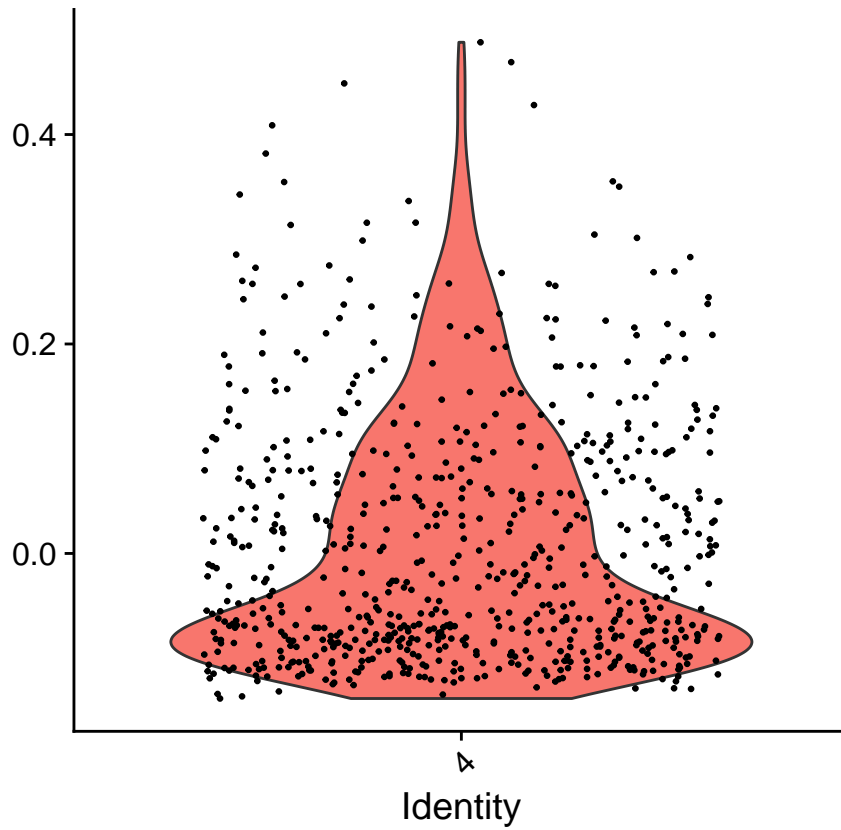
Diff: FCGR3A (0)



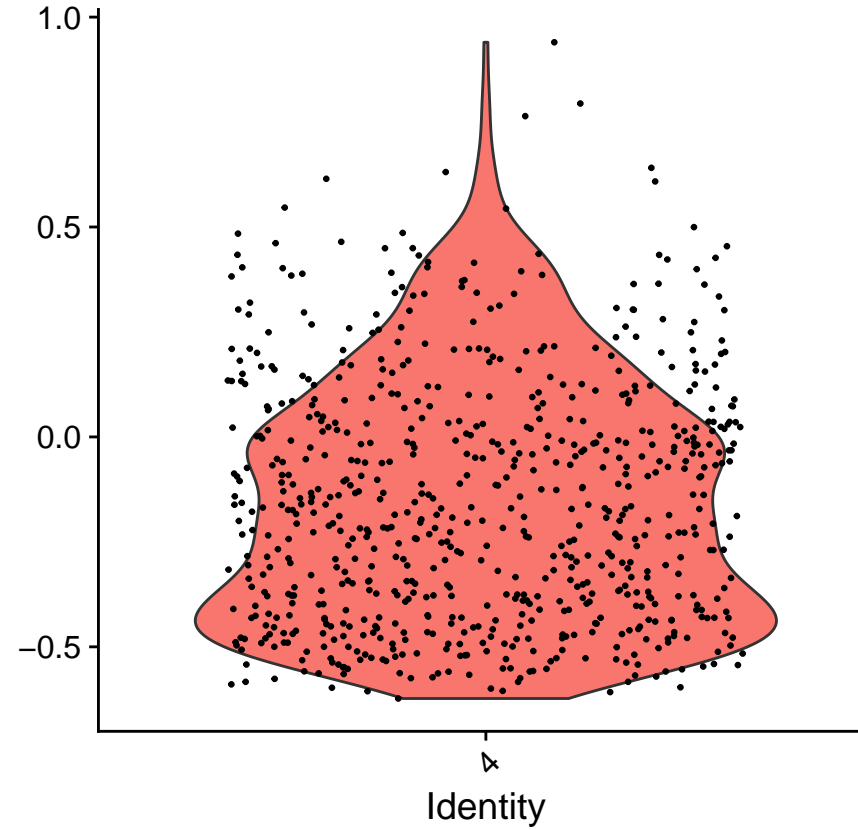
| | Stage | Cell_Count |
|---|--------------|-------------------|
| 1 | CMP_score1 | 365 |
| 2 | Diff_score1 | 202 |
| 3 | GMP_score1 | 103 |
| 4 | HSC_score1 | 19 |
| 5 | MPP_score1 | 24 |

Cluster 4 – Score Violin Plot

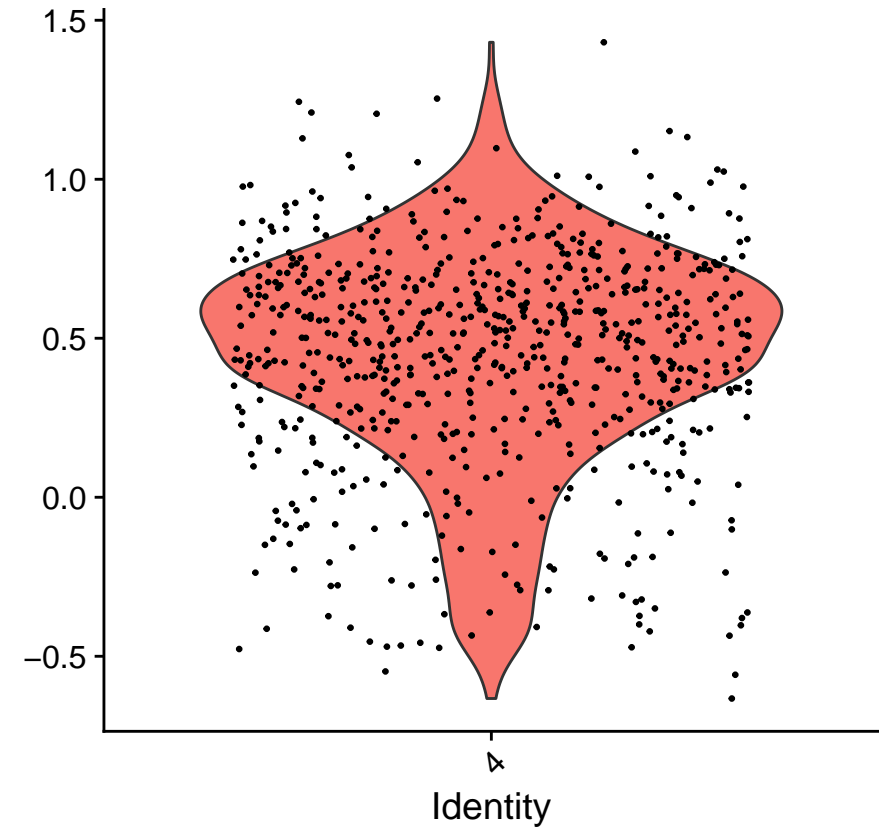
HSC_score1



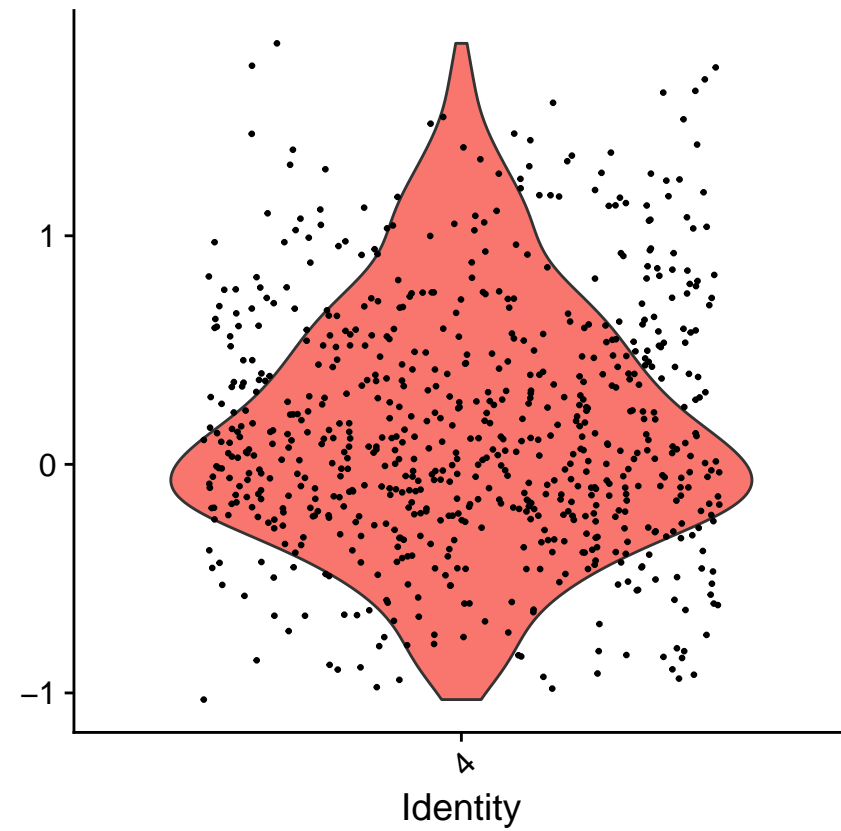
MPP_score1



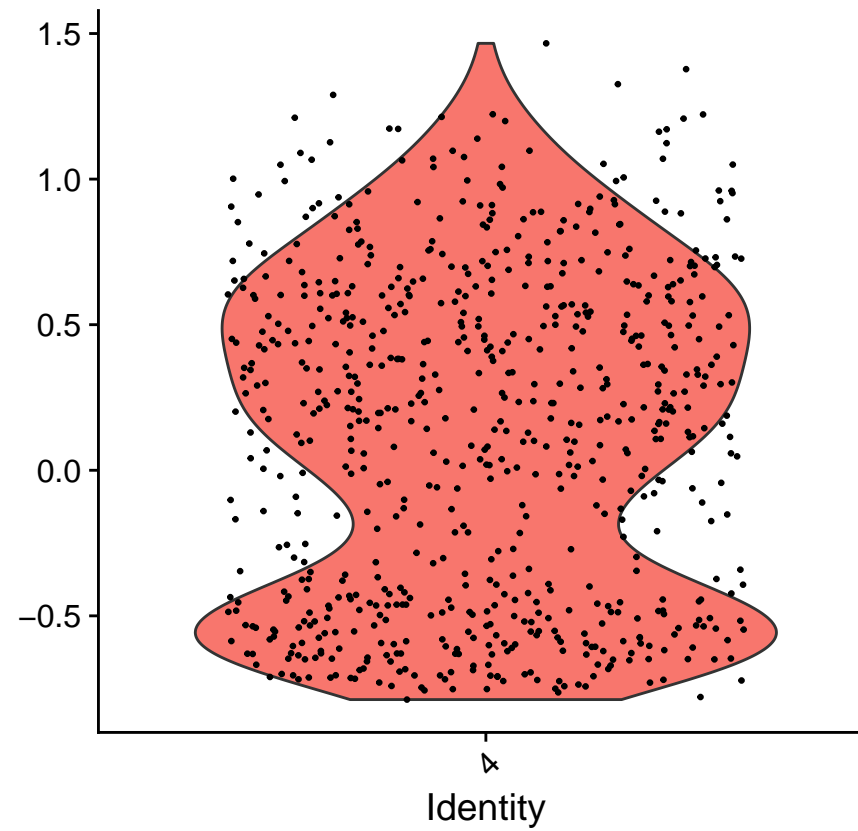
CMP_score1



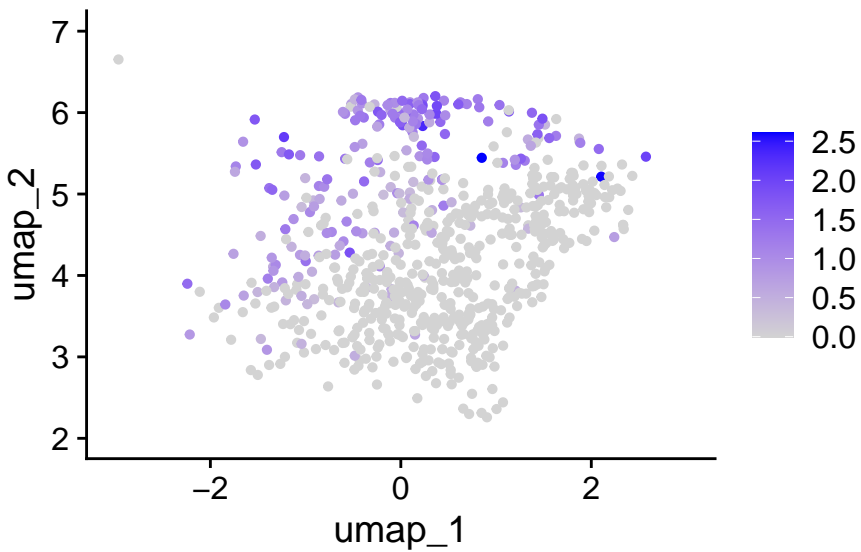
GMP_score1



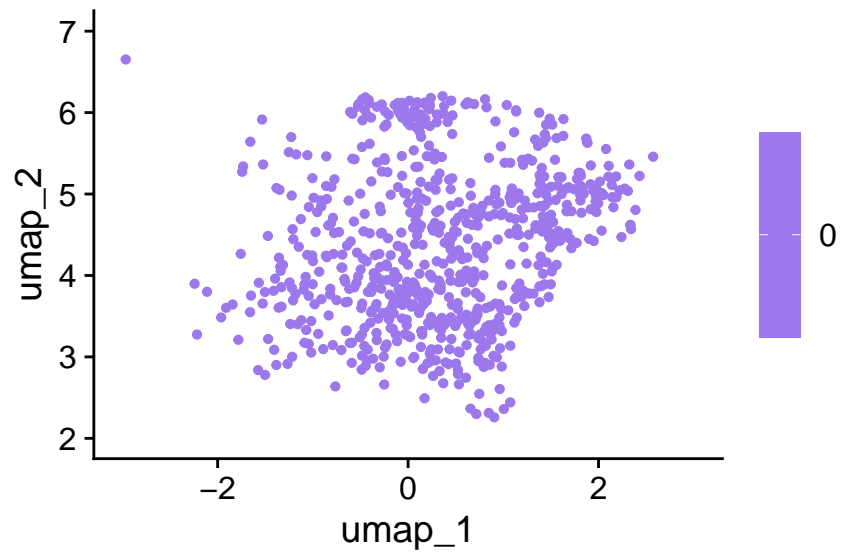
Diff_score1



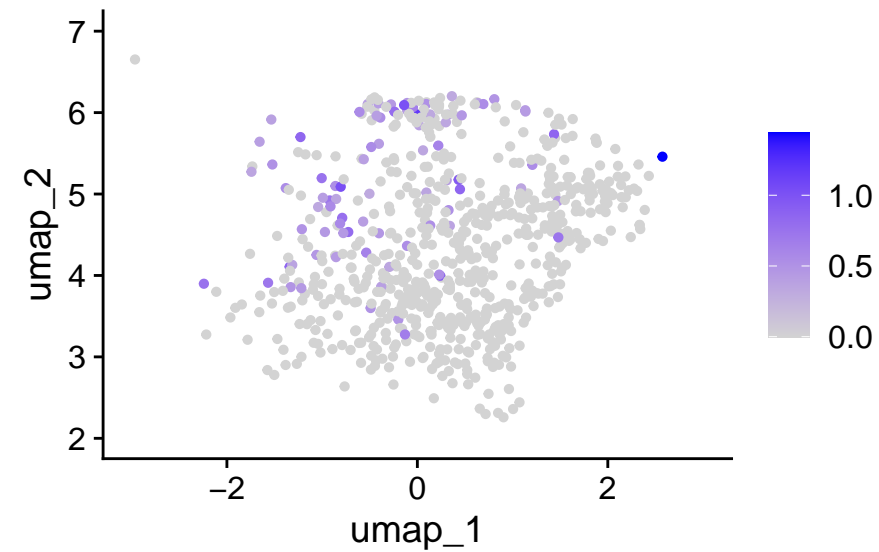
HSC: CD34



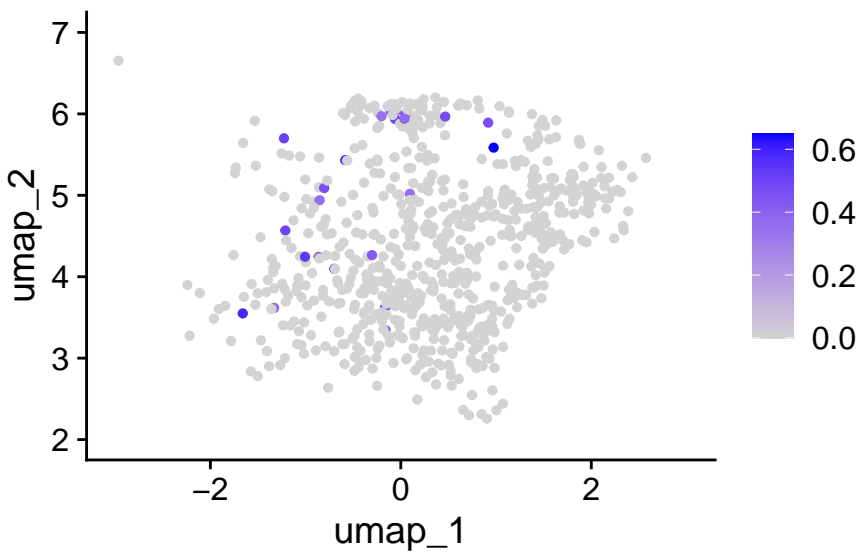
HSC: AVP (0)



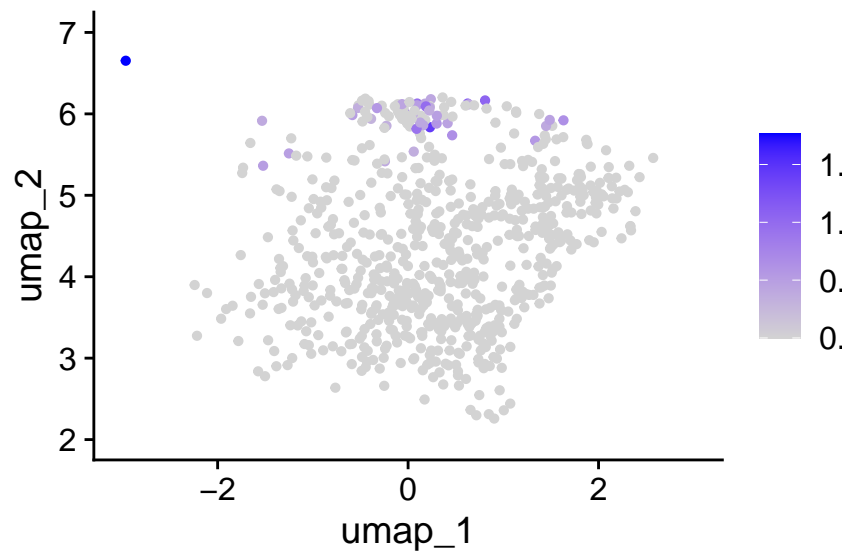
HSC: PROM1



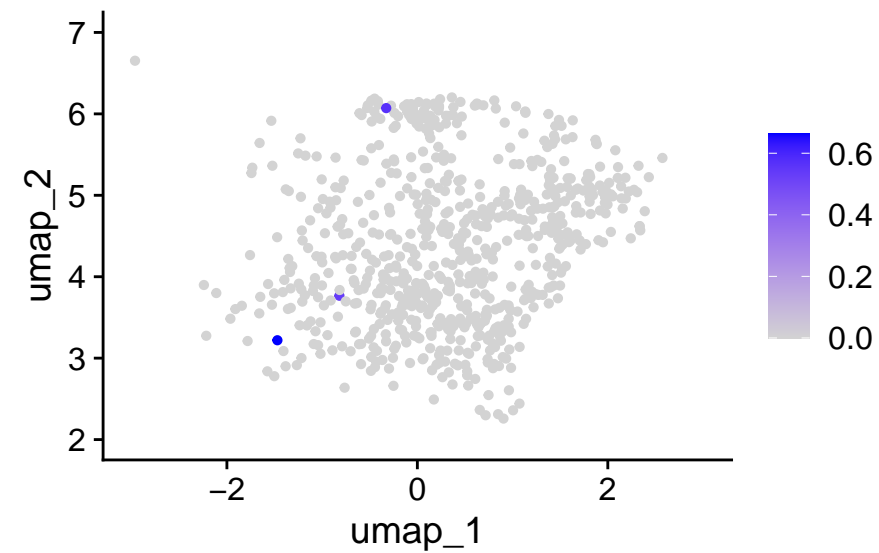
HSC: MEIS1



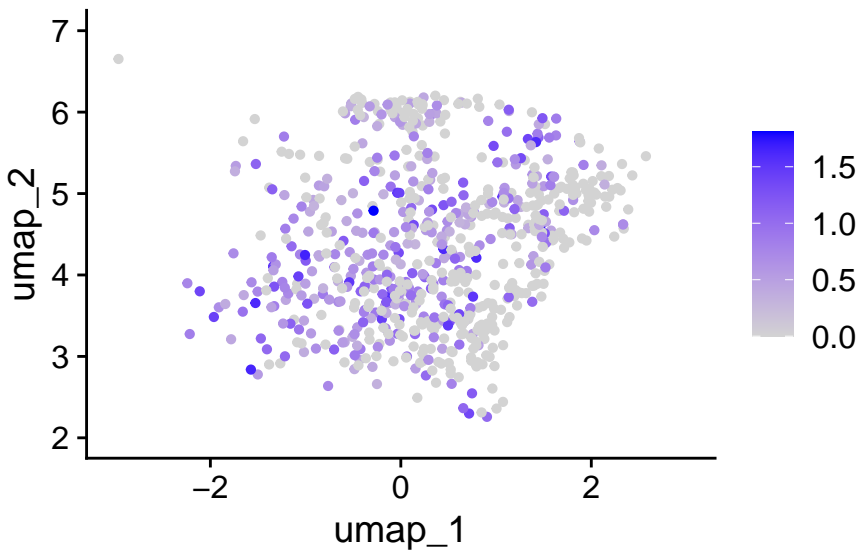
HSC: GATA2



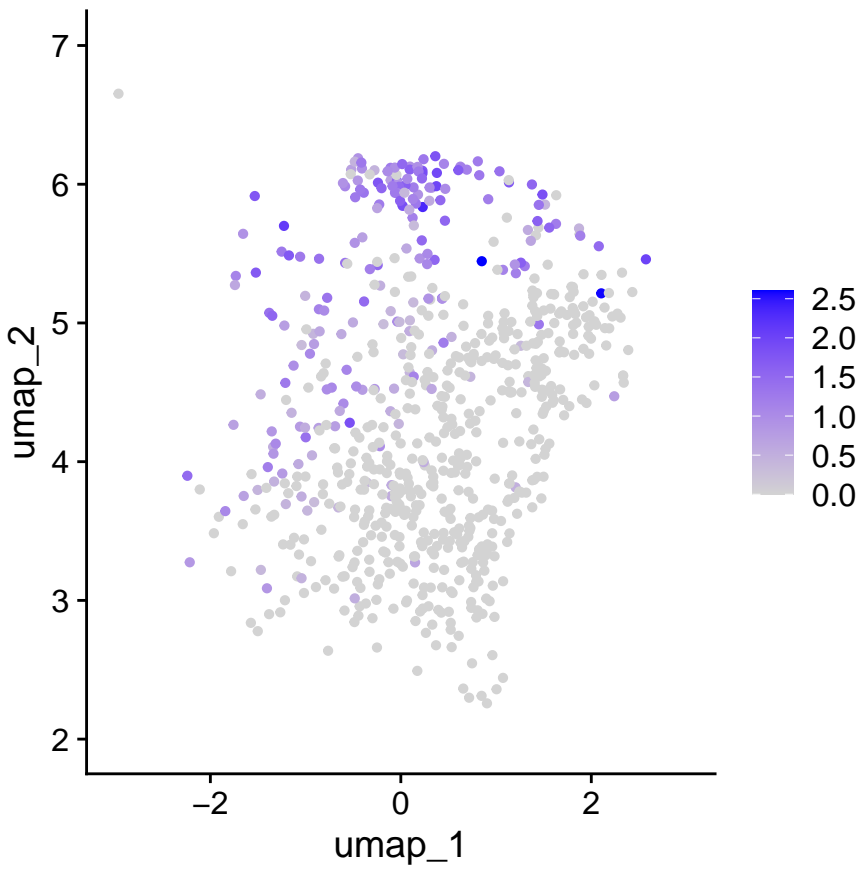
HSC: HOXA9



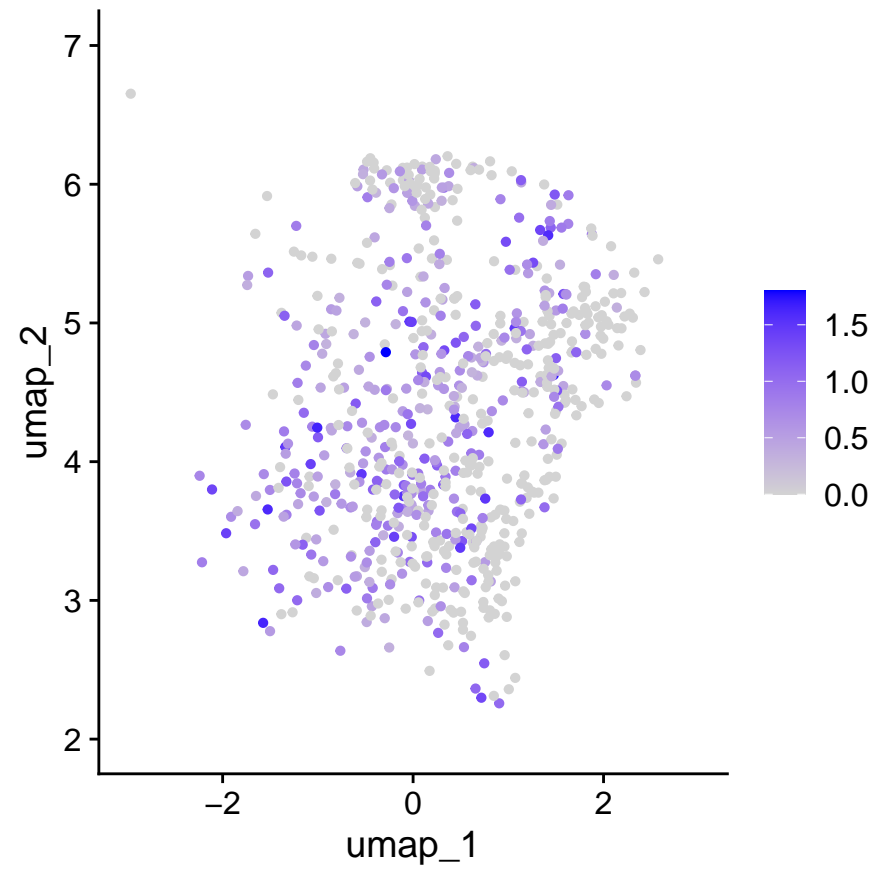
HSC: FLT3



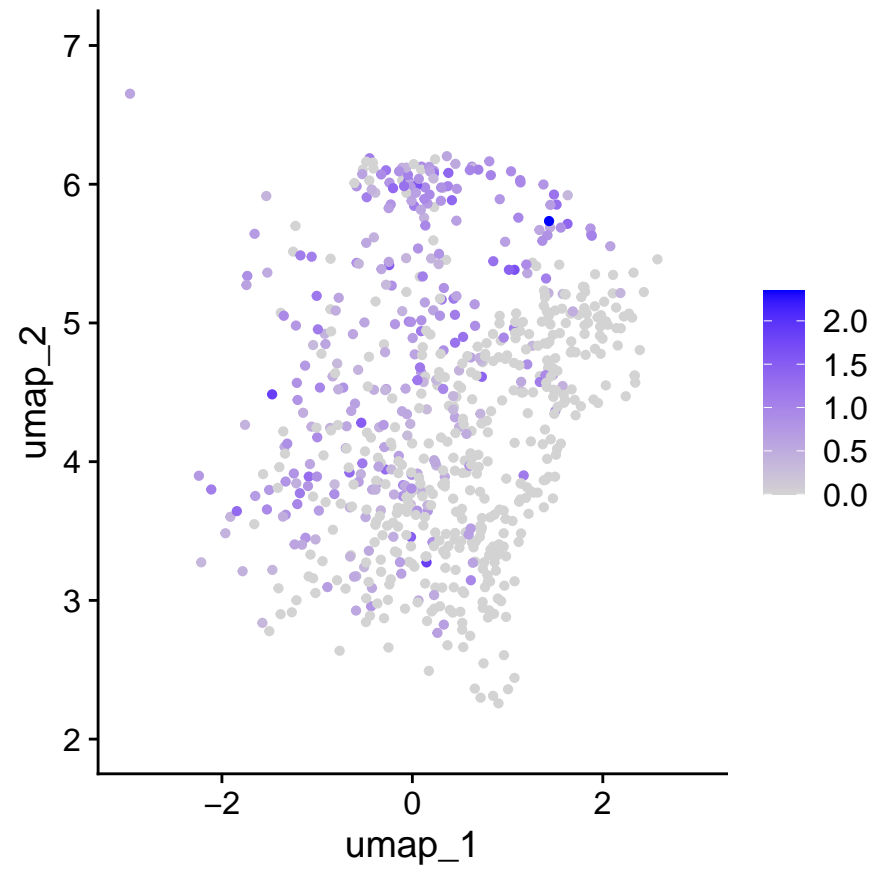
MPP: CD34



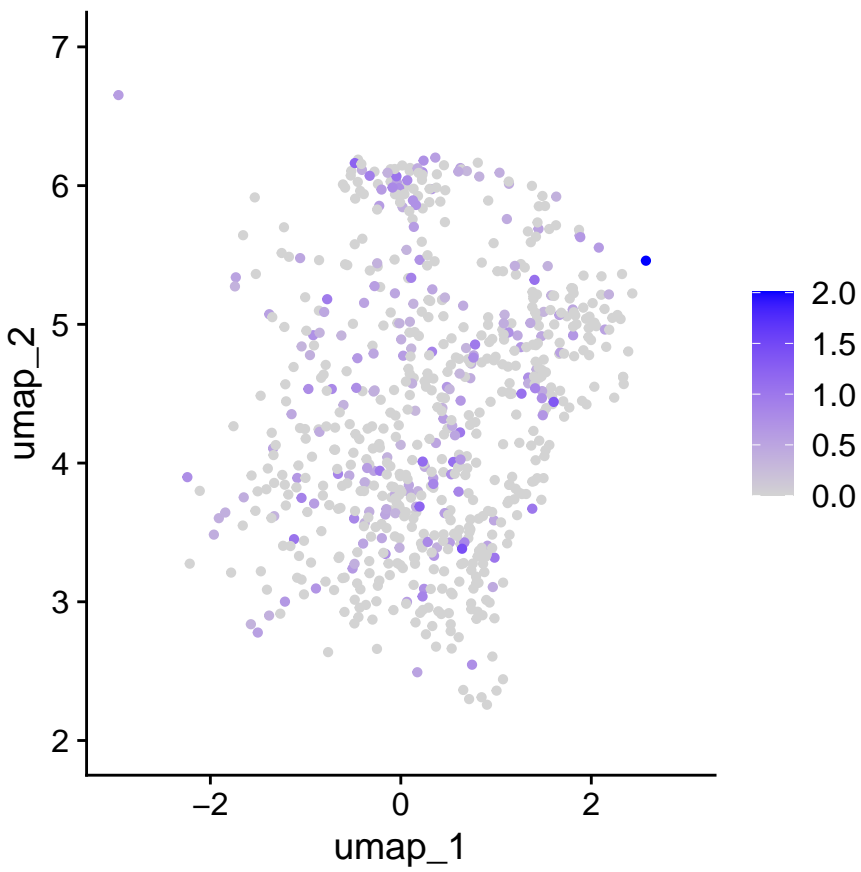
MPP: FLT3



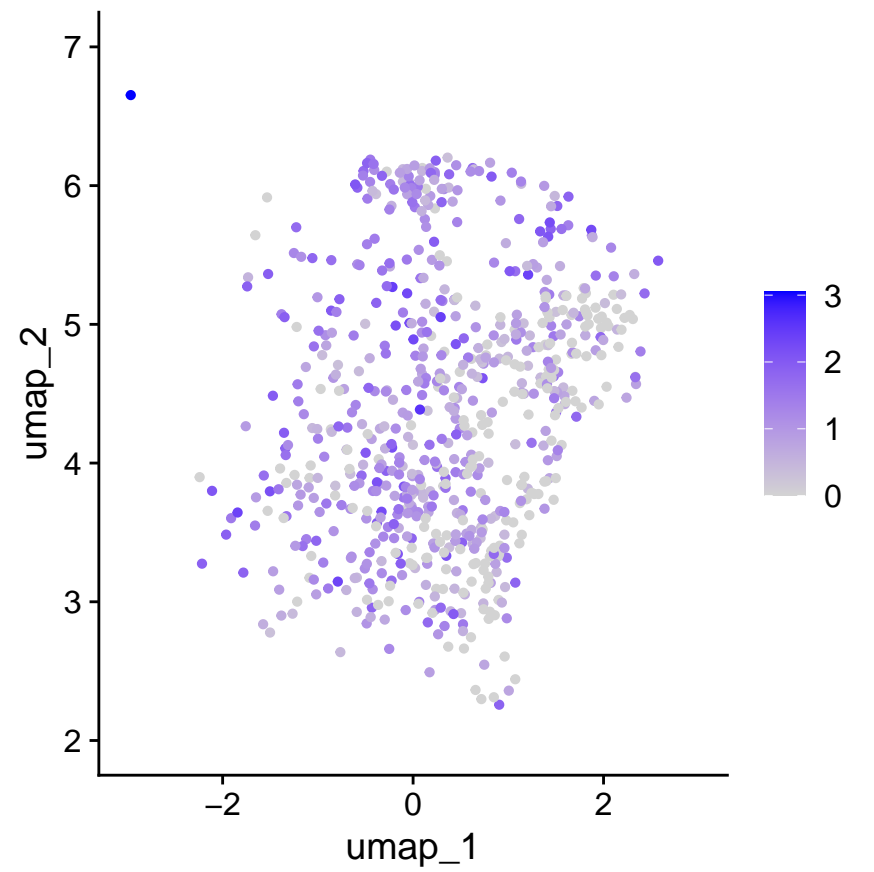
MPP: KIT



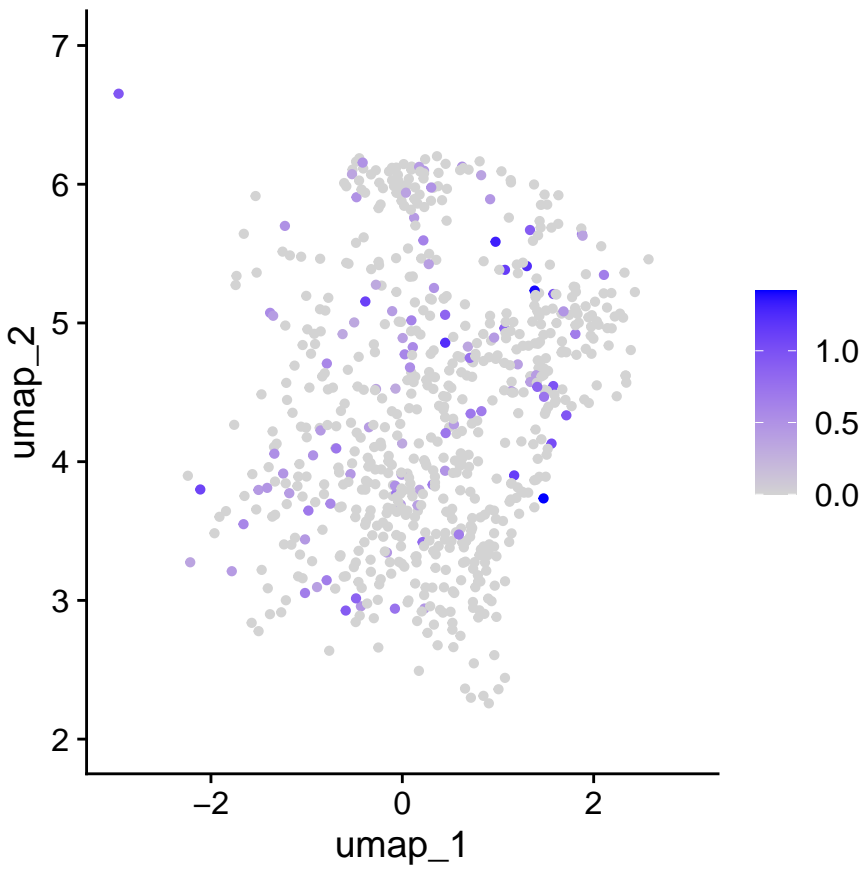
MPP: CD38



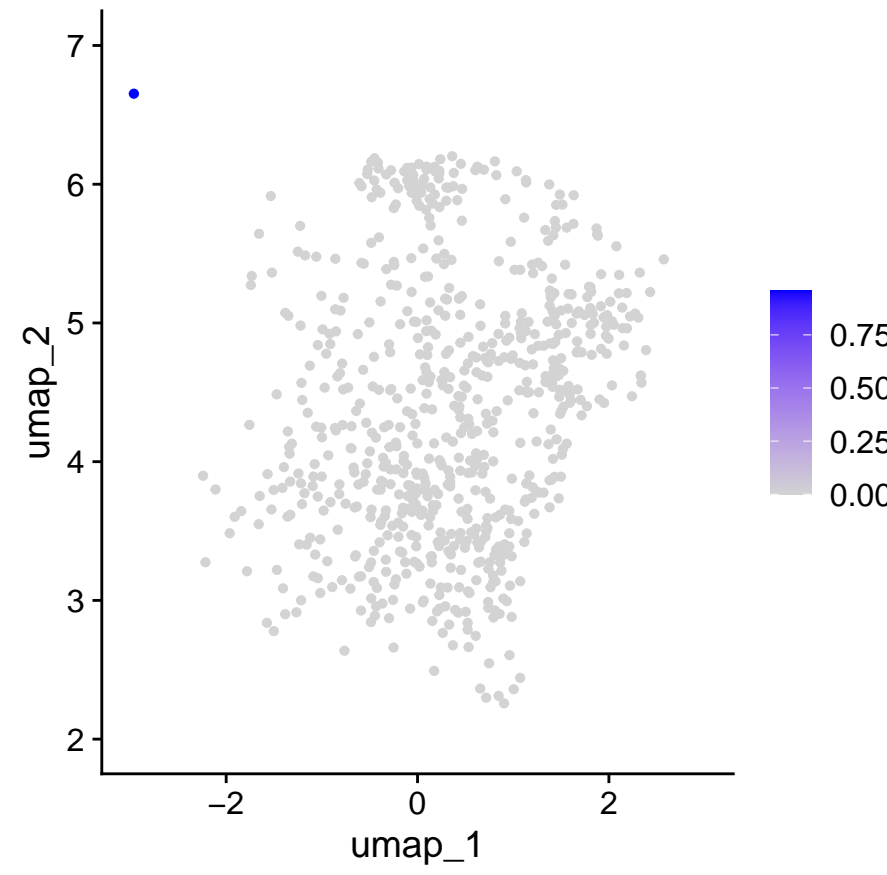
MPP: SOX4



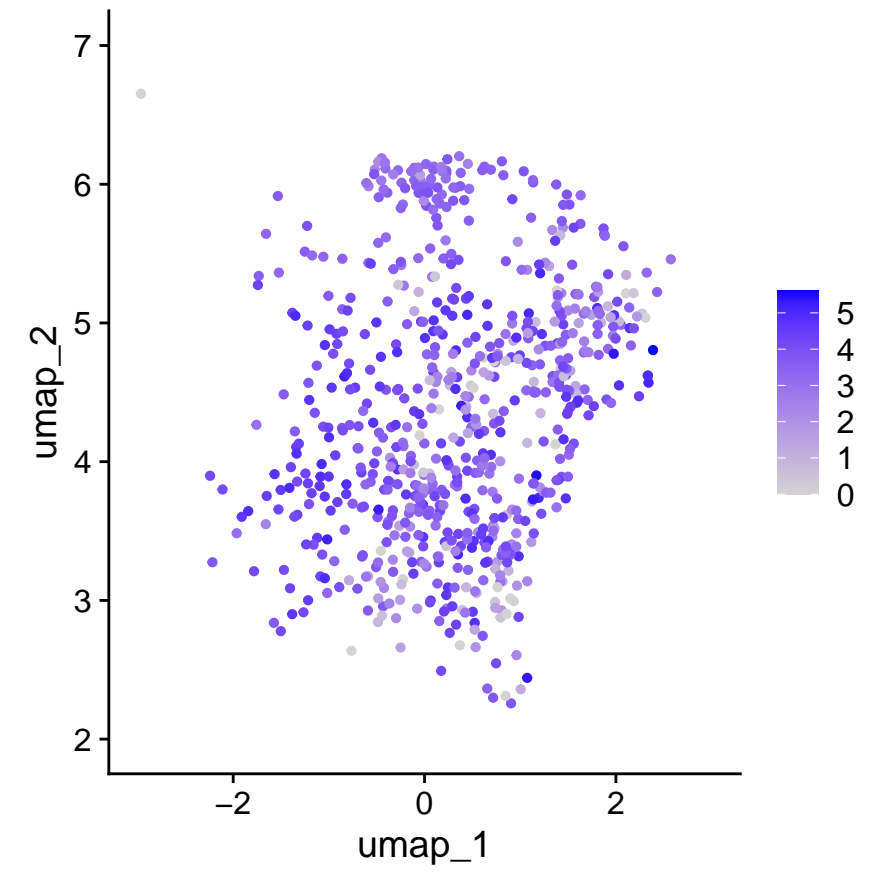
CMP: IL3RA



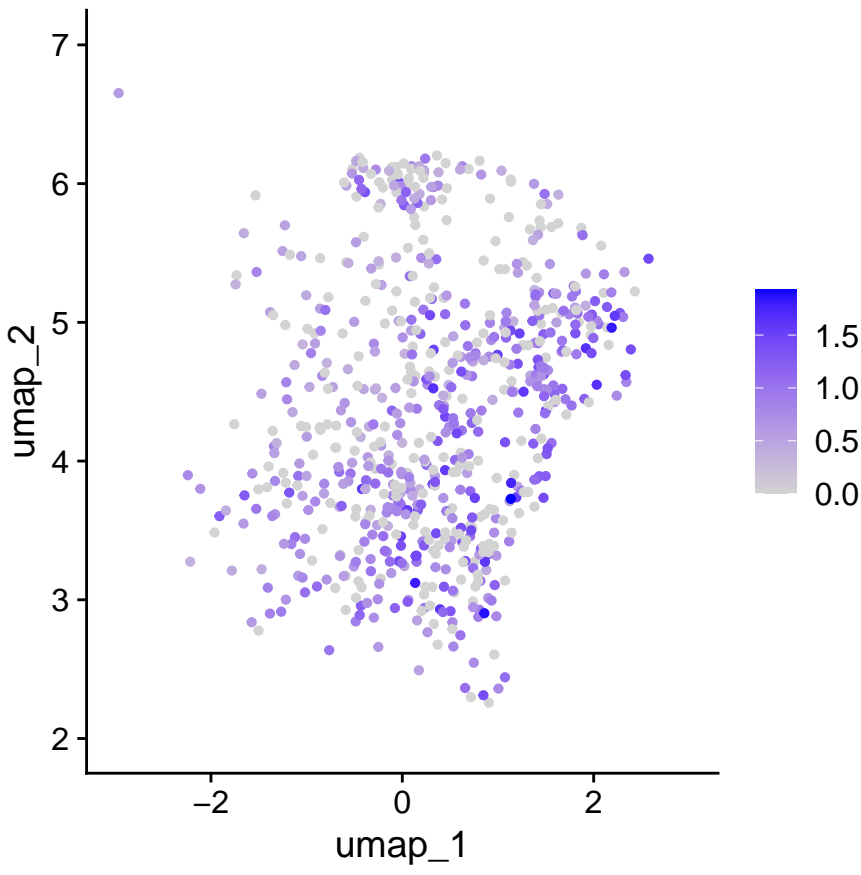
CMP: GATA1



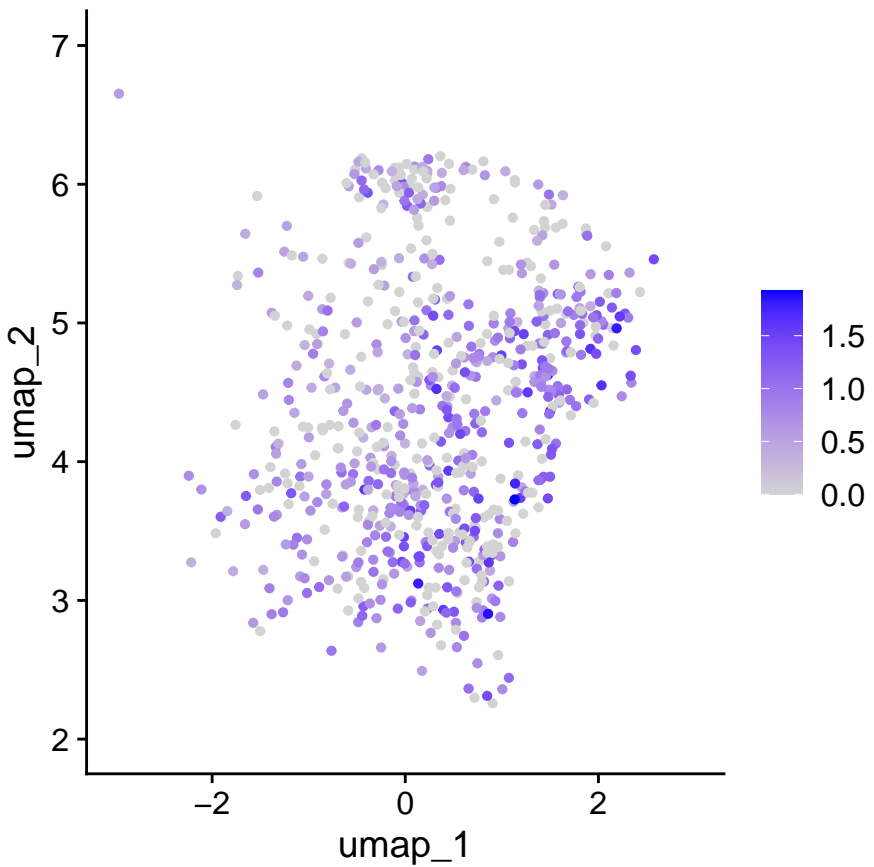
CMP: MPO



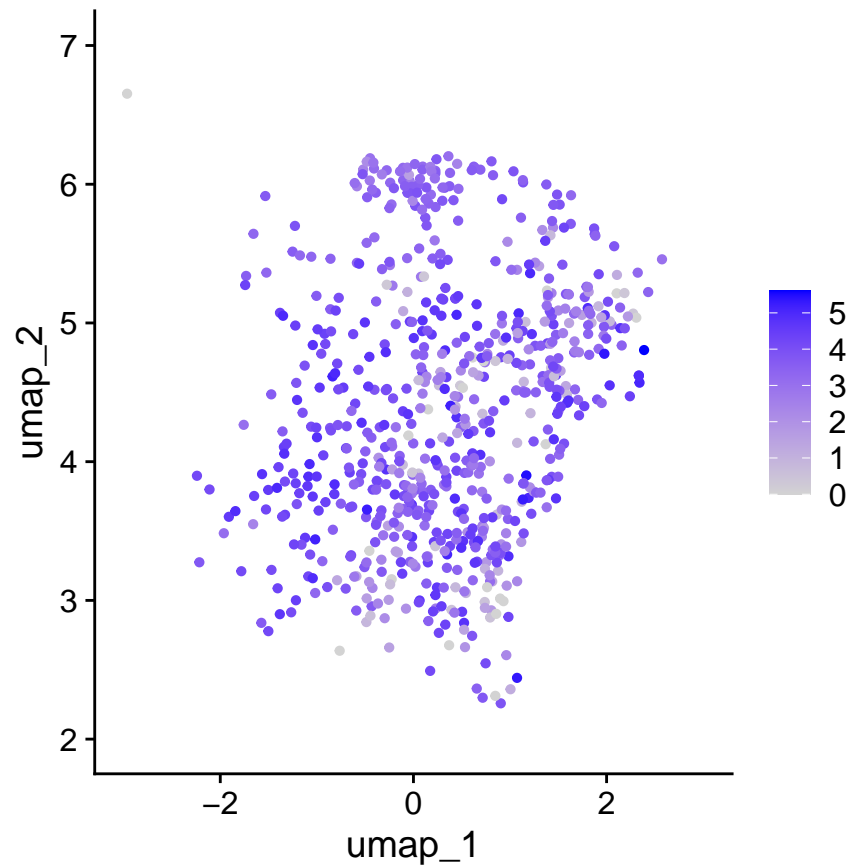
CMP: CEBPA



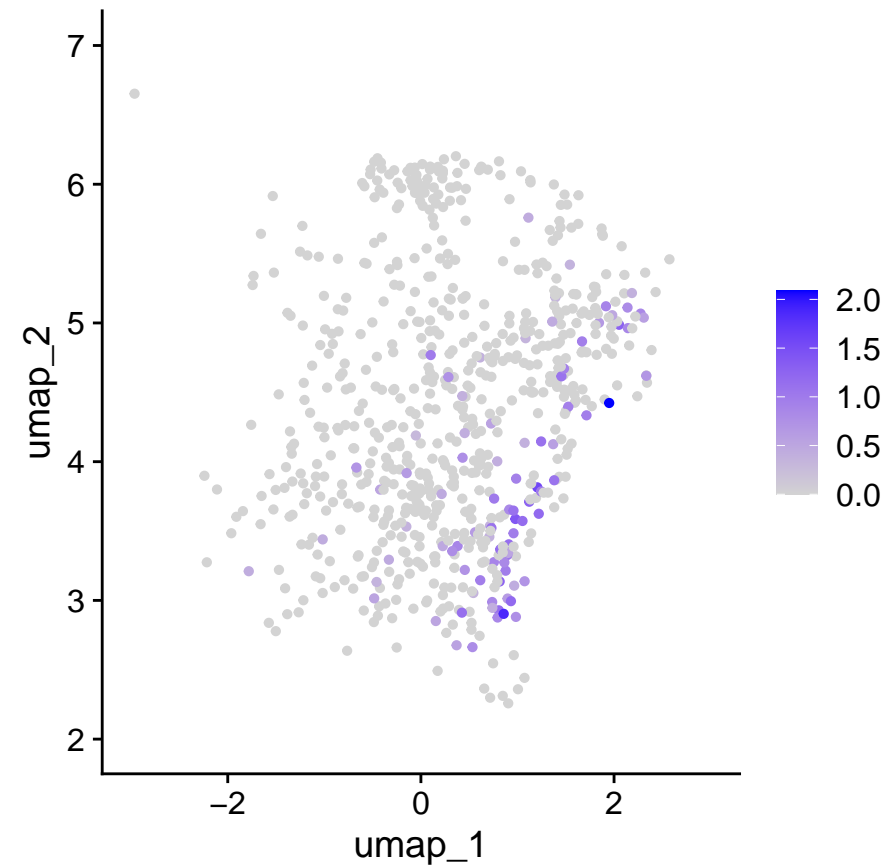
GMP: CEBPA



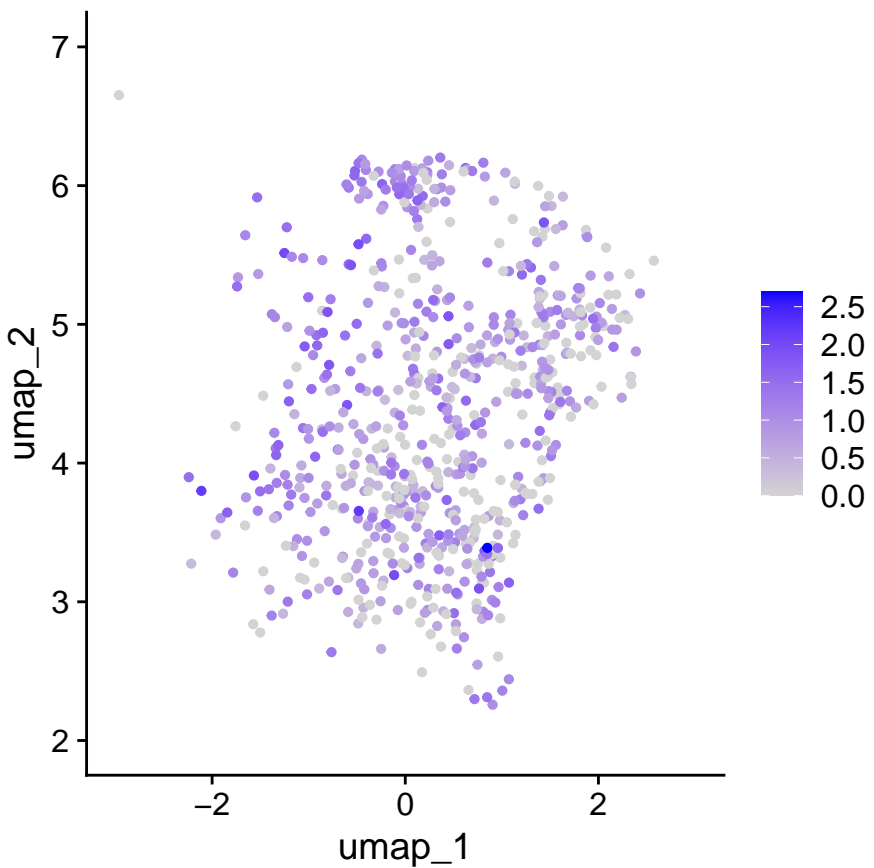
GMP: MPO



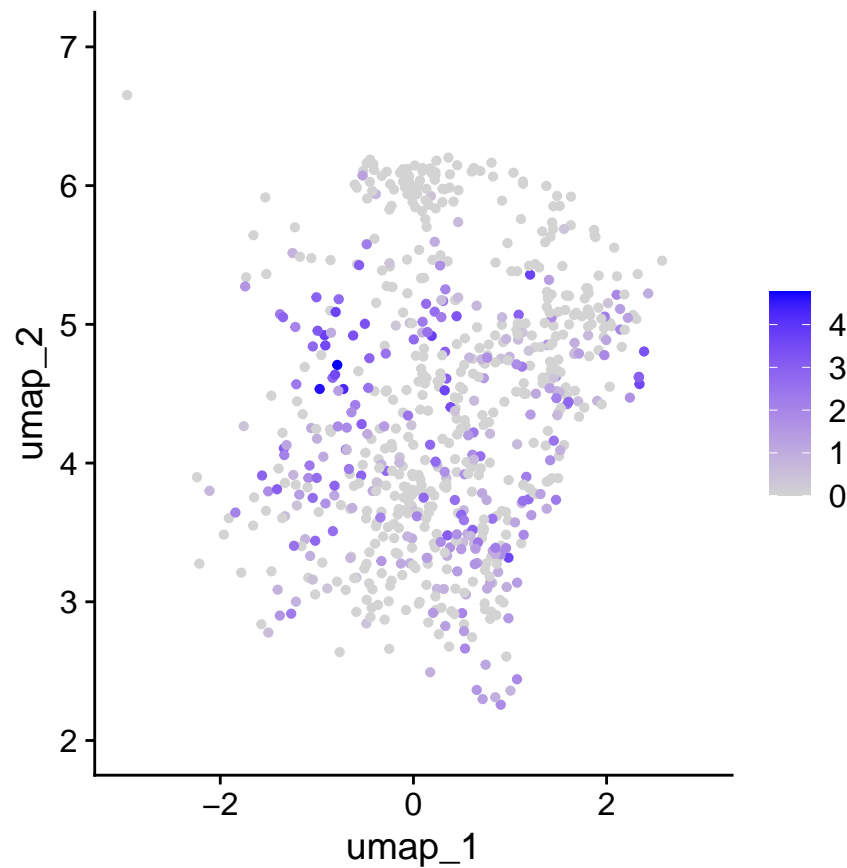
GMP: ITGAM



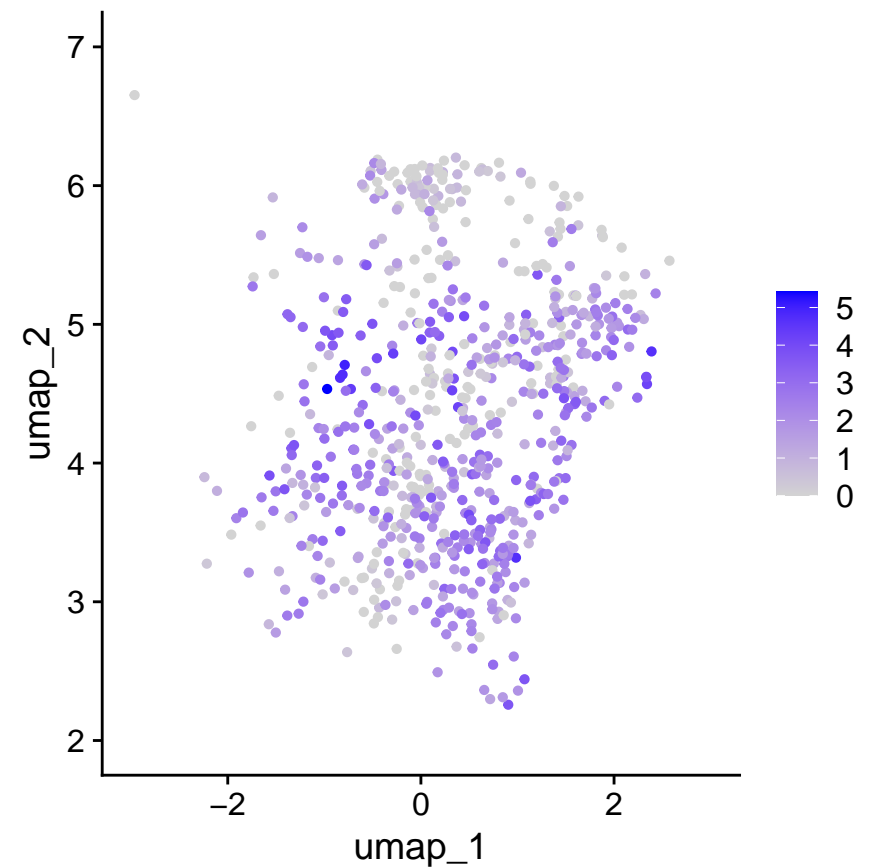
GMP: CSF3R



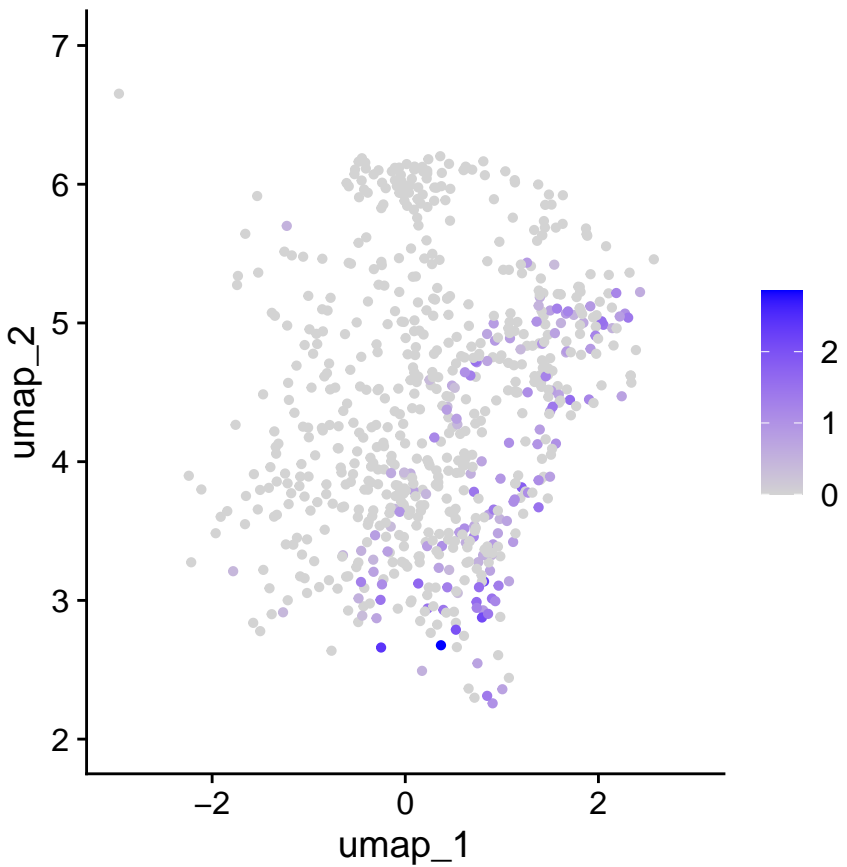
GMP: ELANE



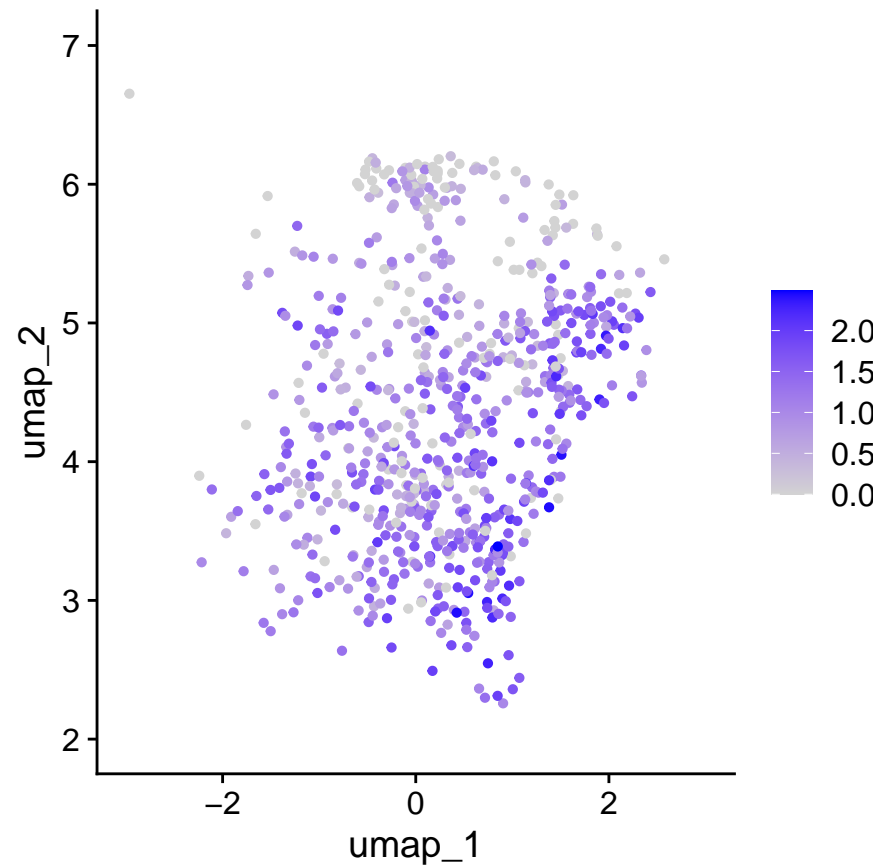
GMP: AZU1



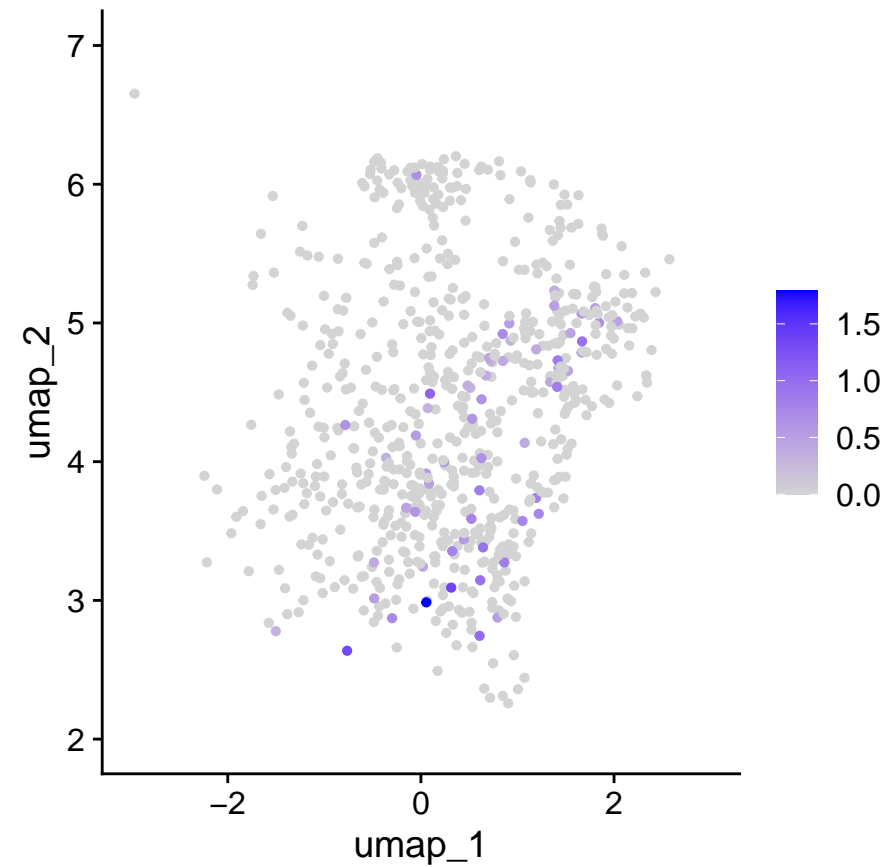
Diff: CD14



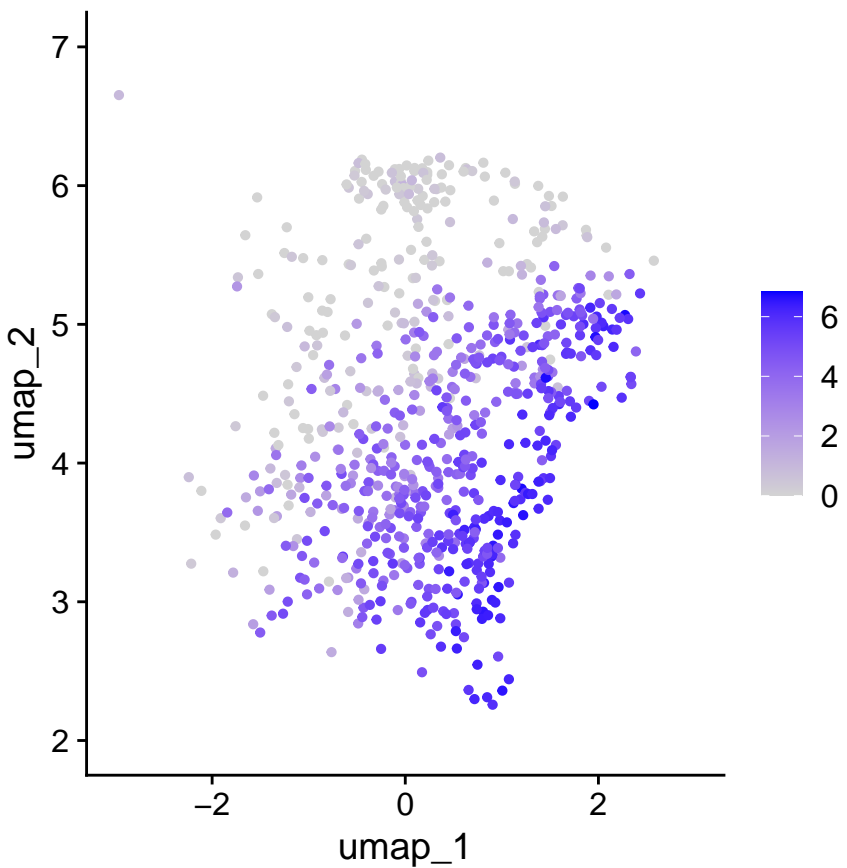
Diff: CD68



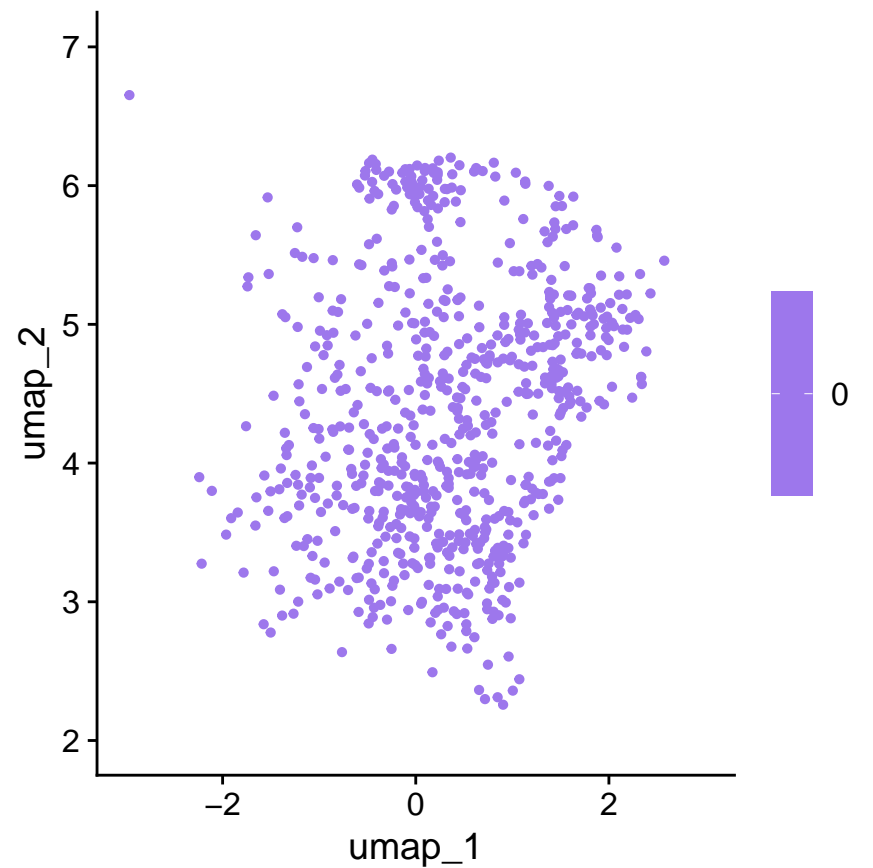
Diff: ITGAX



Diff: S100A9



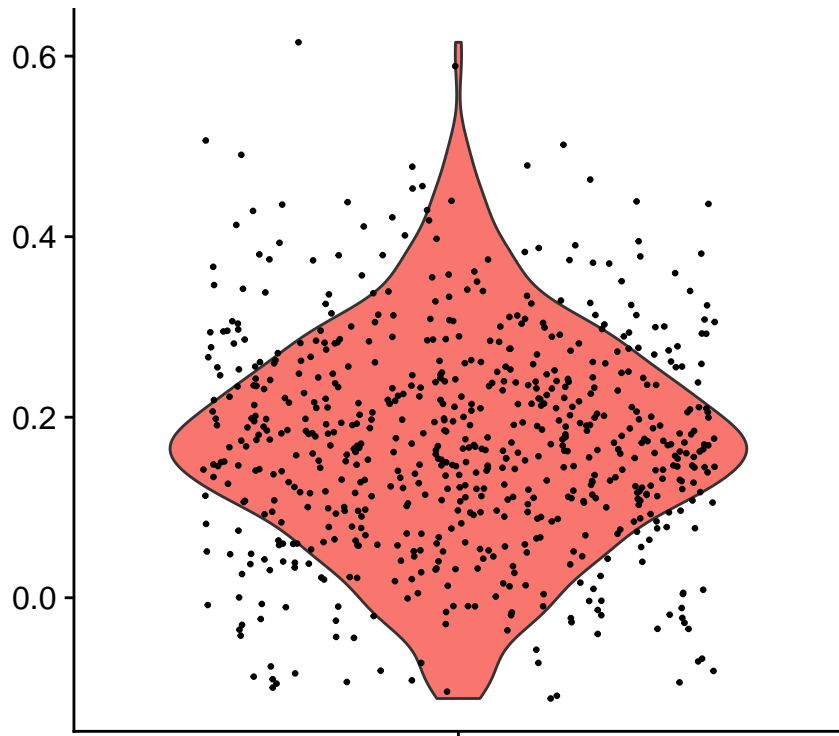
Diff: FCGR3A (0)



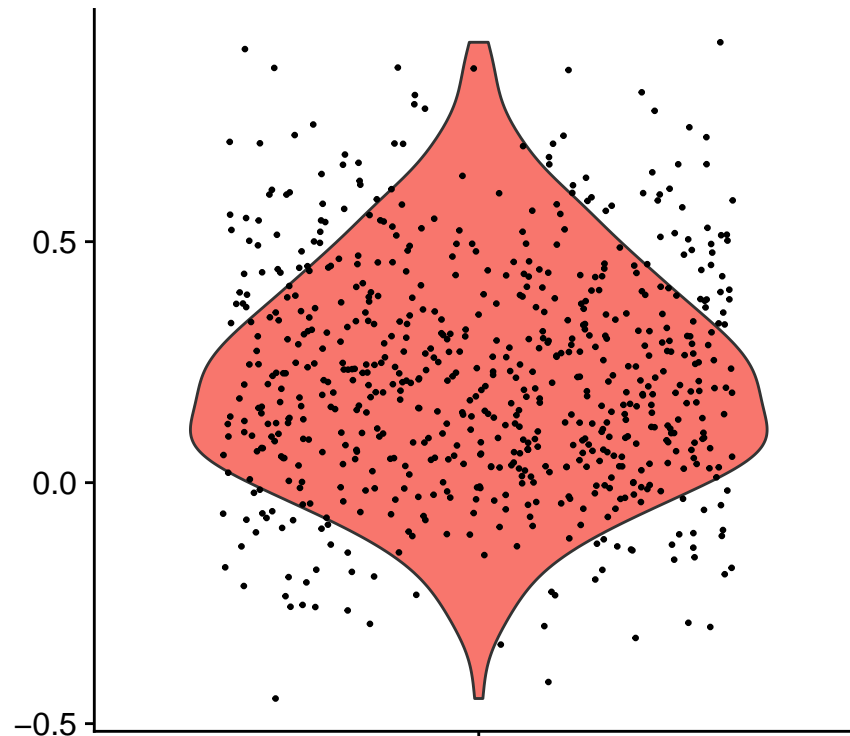
| | Stage | Cell_Count |
|---|--------------|-------------------|
| 1 | CMP_score1 | 466 |
| 2 | GMP_score1 | 63 |
| 3 | HSC_score1 | 18 |
| 4 | MPP_score1 | 120 |

Cluster 5 – Score Violin Plot

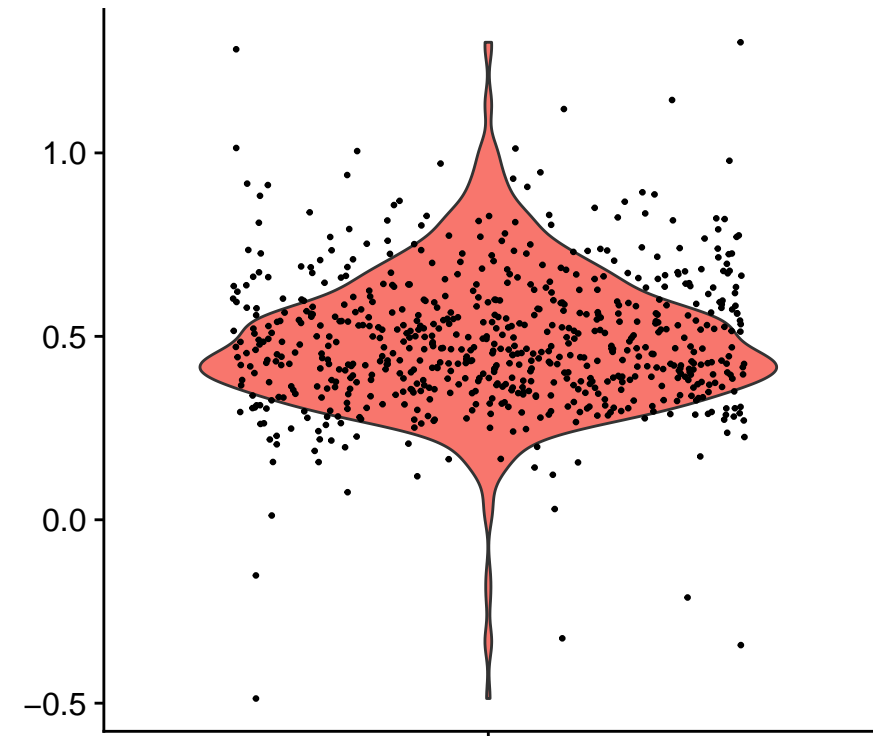
HSC_score1



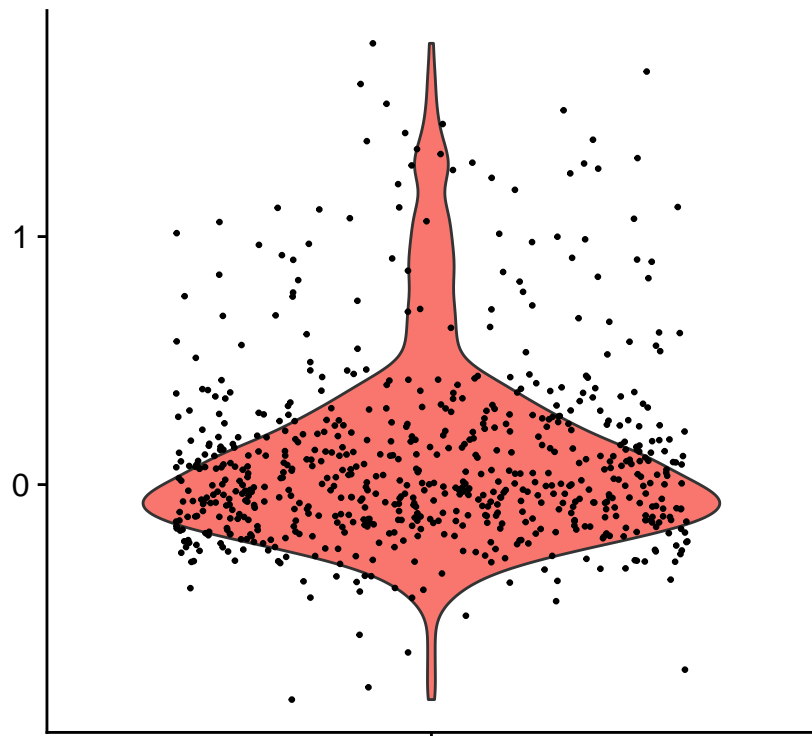
MPP_score1



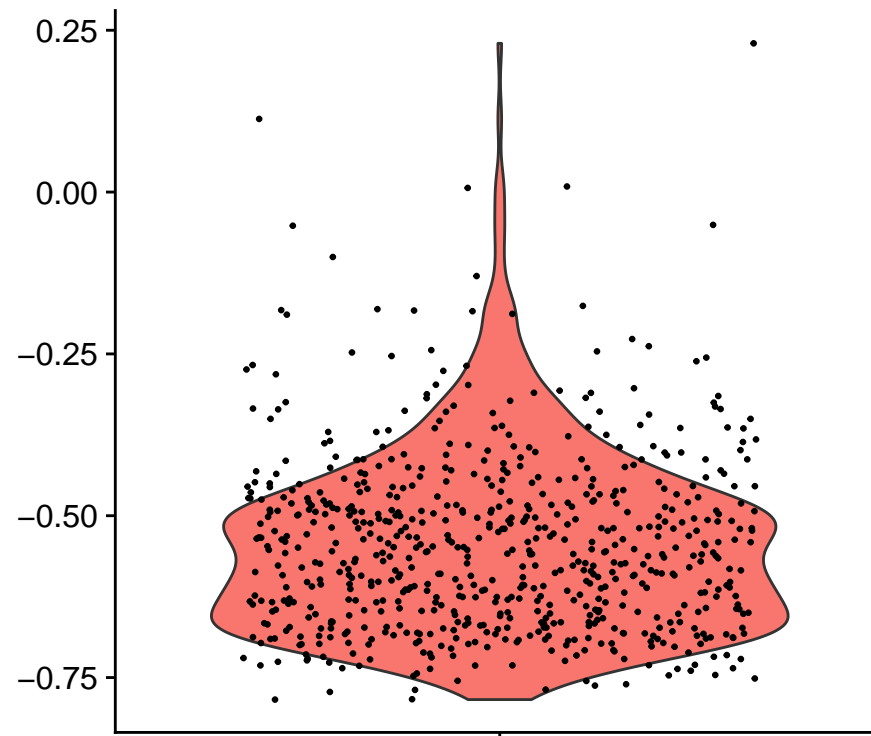
CMP_score1



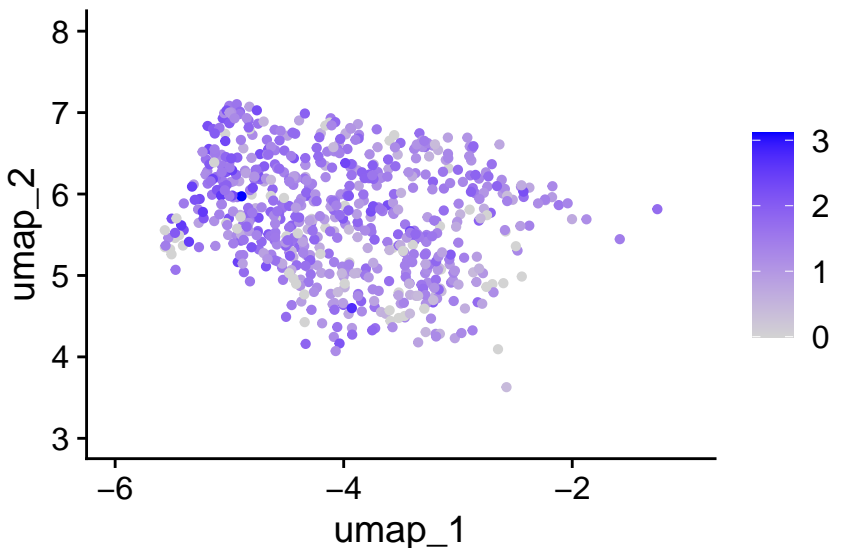
GMP_score1



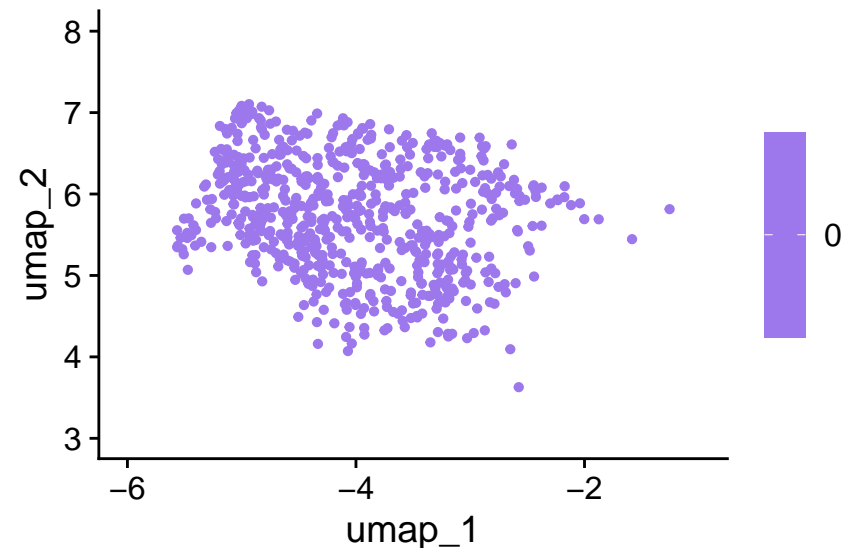
Diff_score1



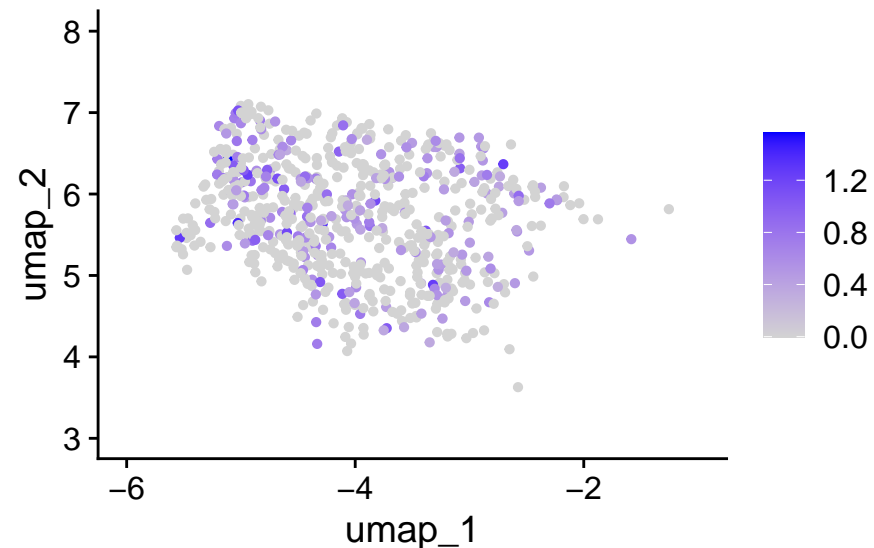
HSC: CD34



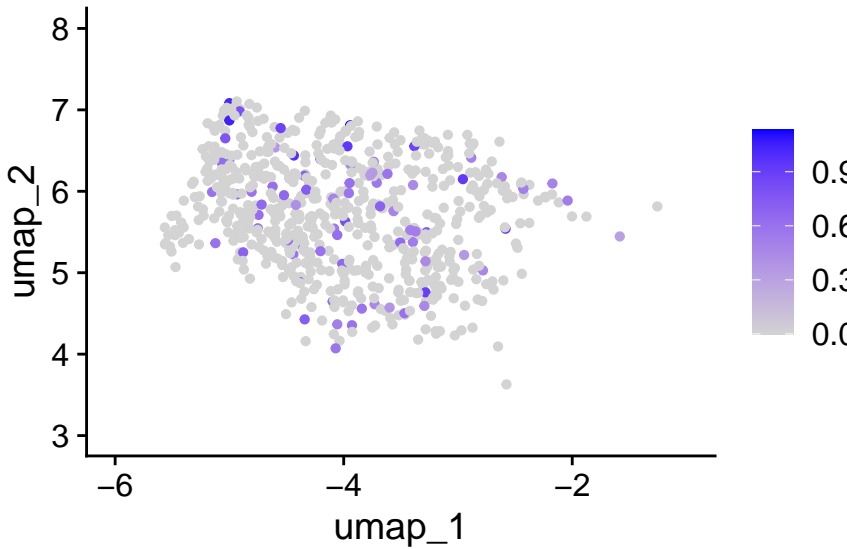
HSC: AVP (0)



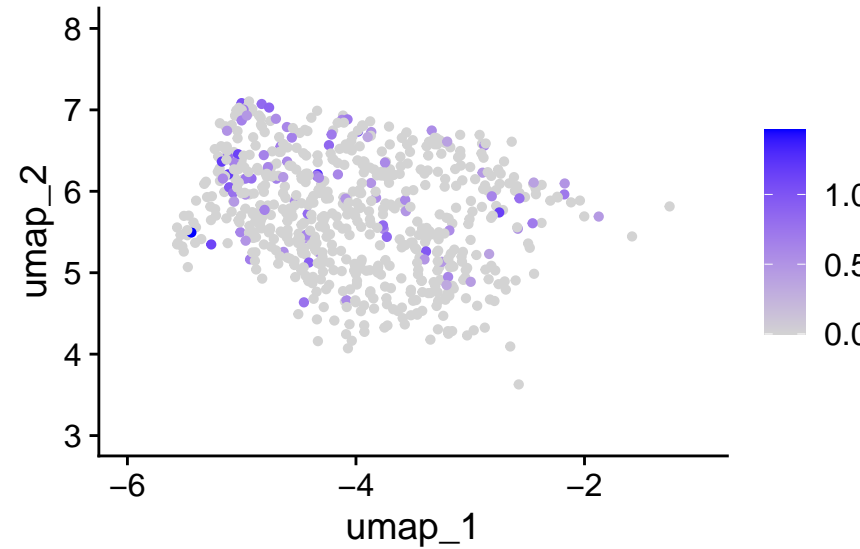
HSC: PROM1



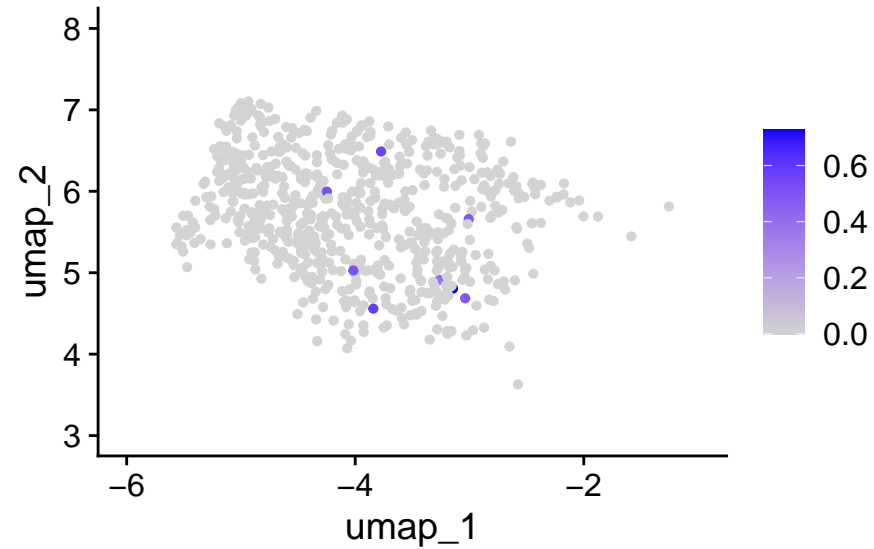
HSC: MEIS1



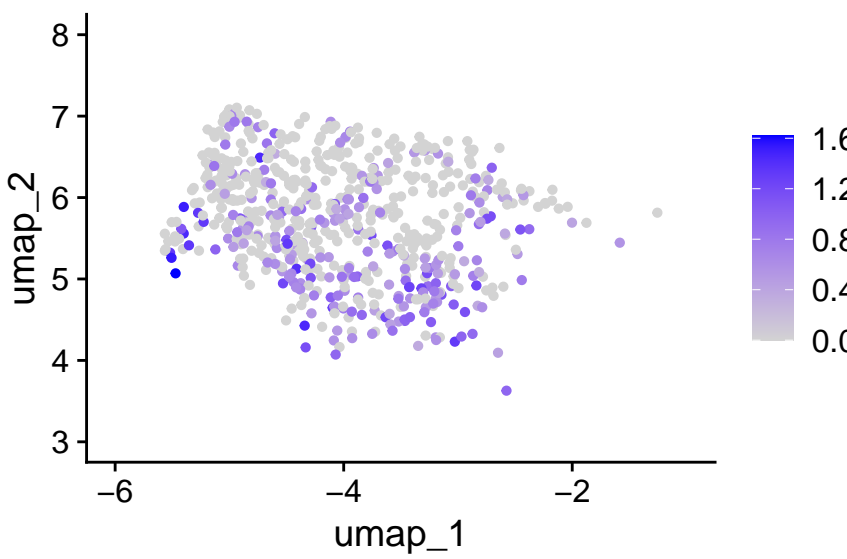
HSC: GATA2



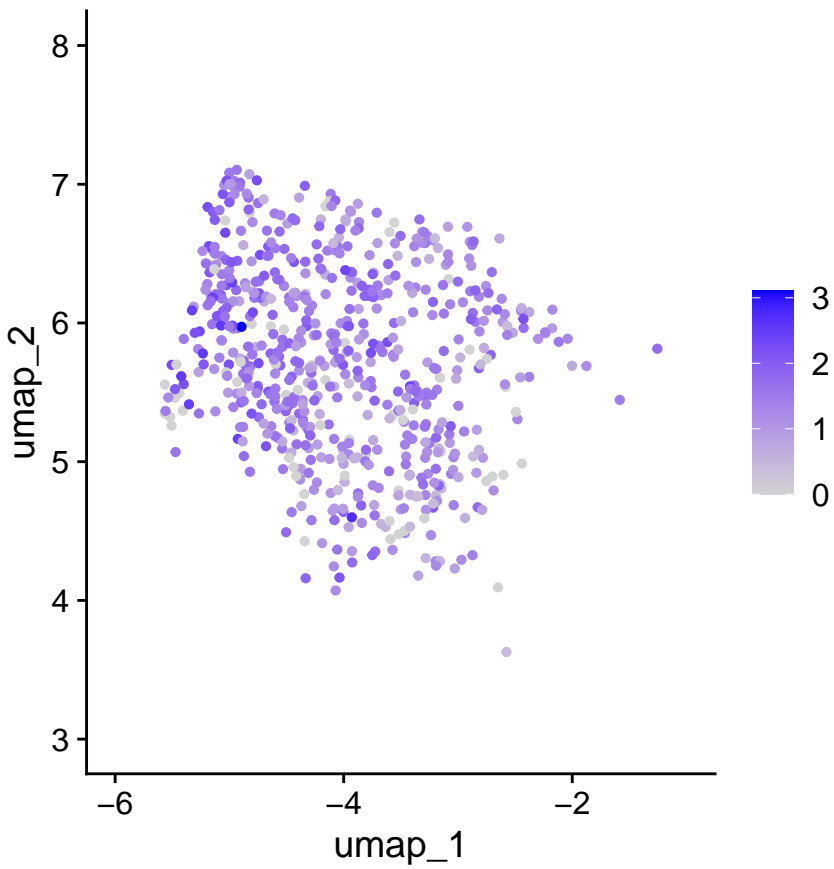
HSC: HOXA9



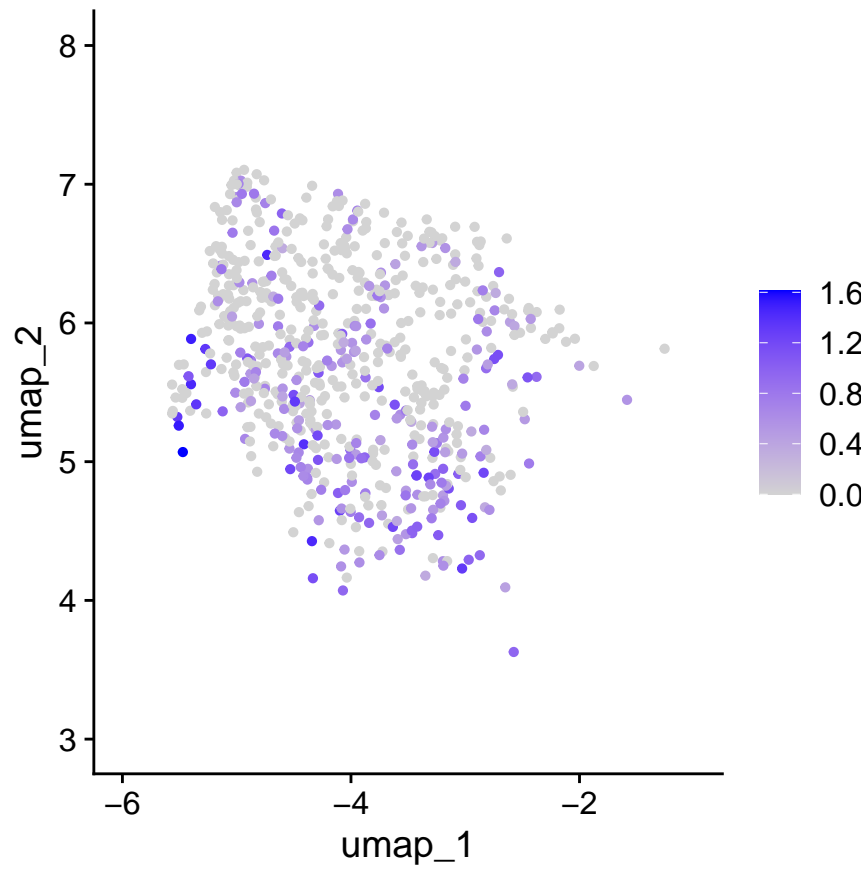
HSC: FLT3



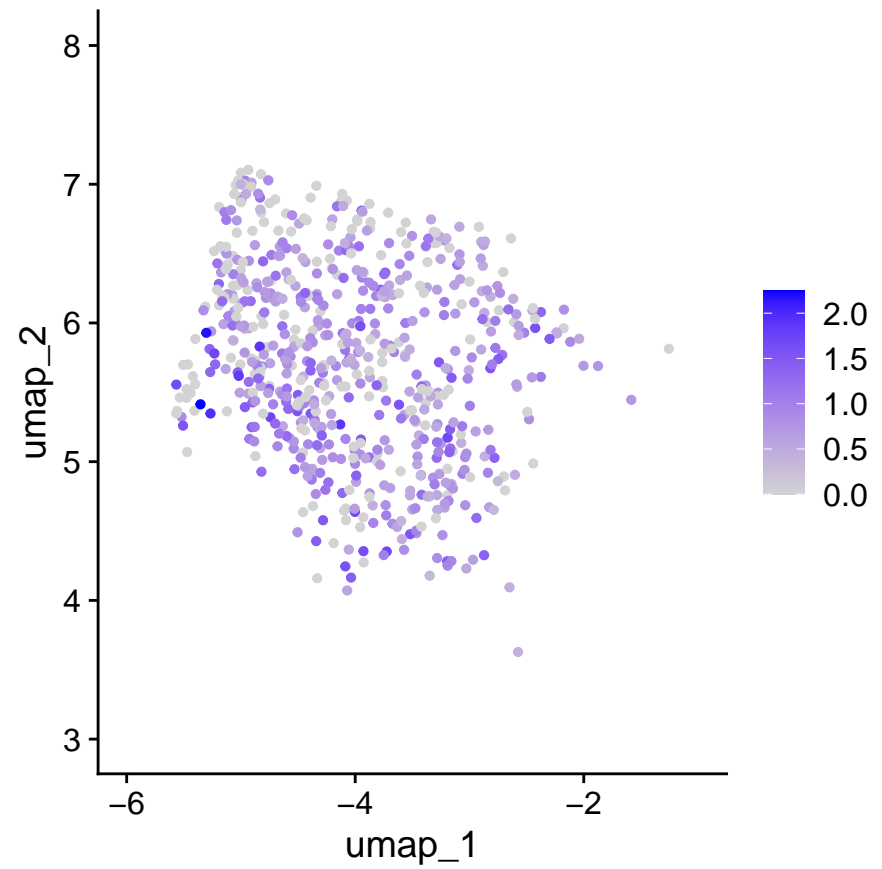
MPP: CD34



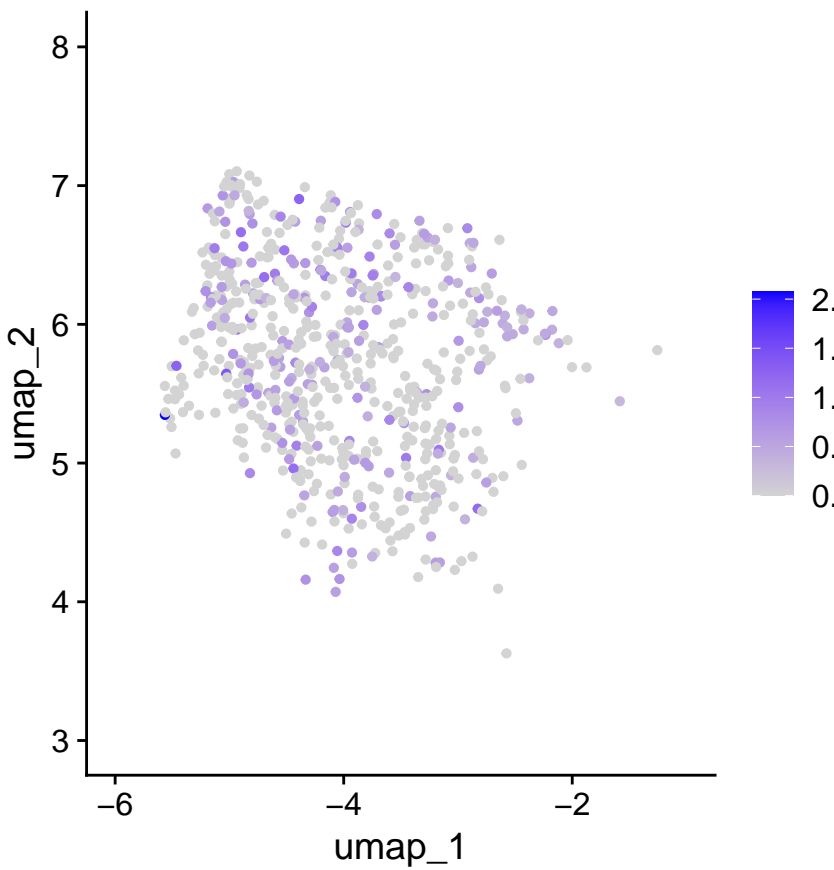
MPP: FLT3



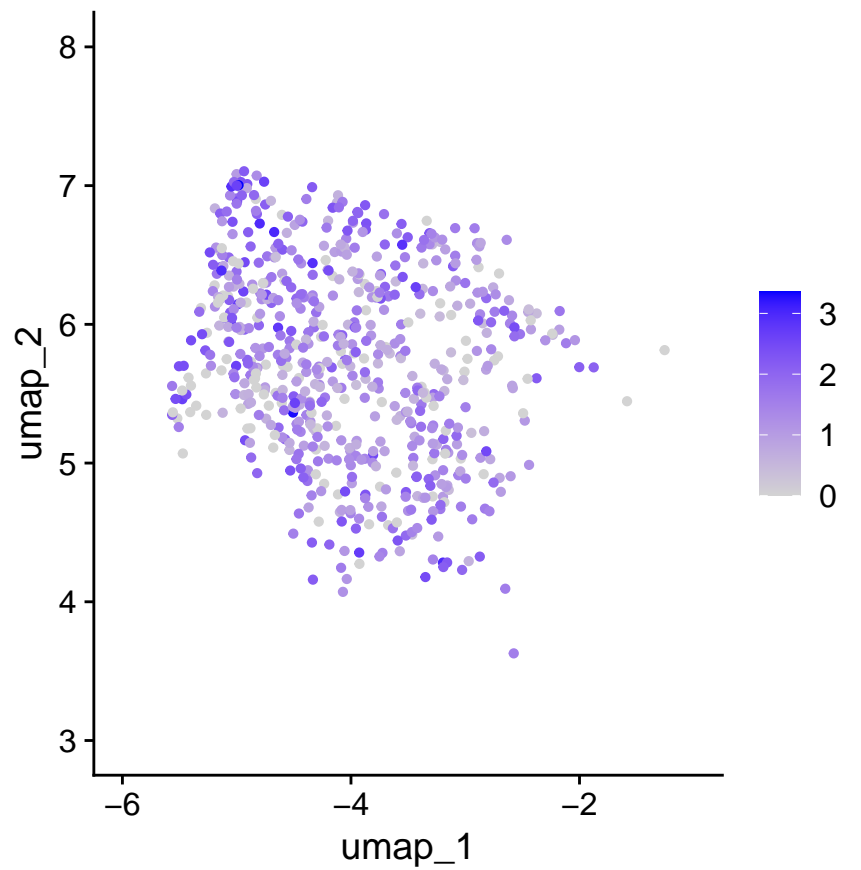
MPP: KIT



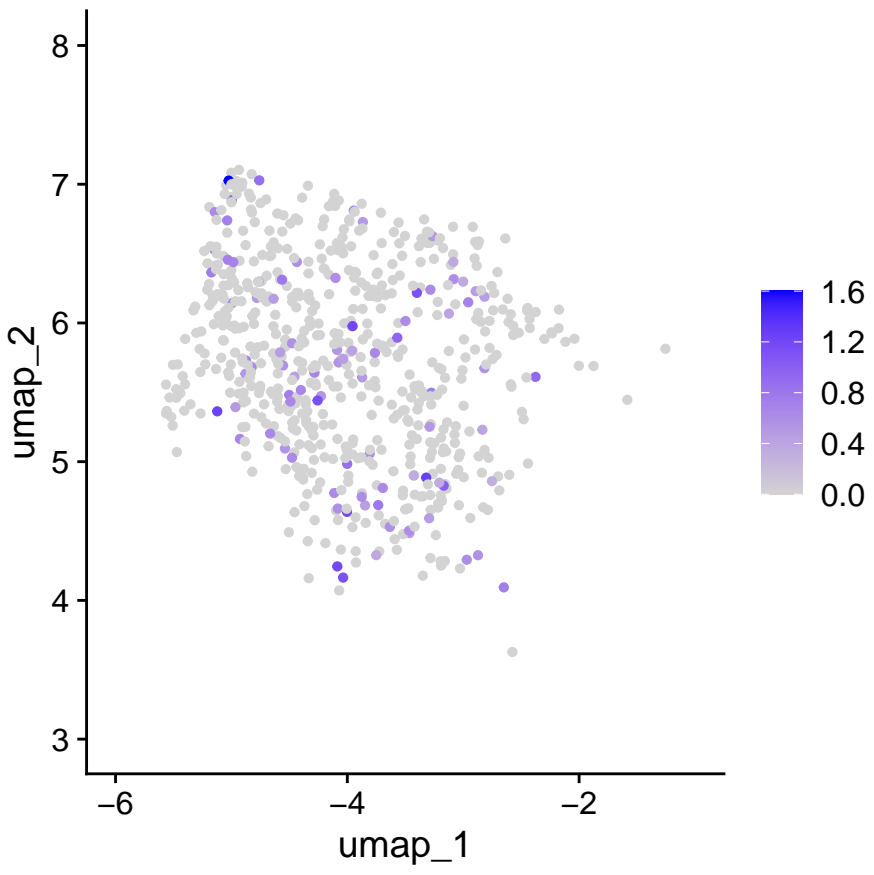
MPP: CD38



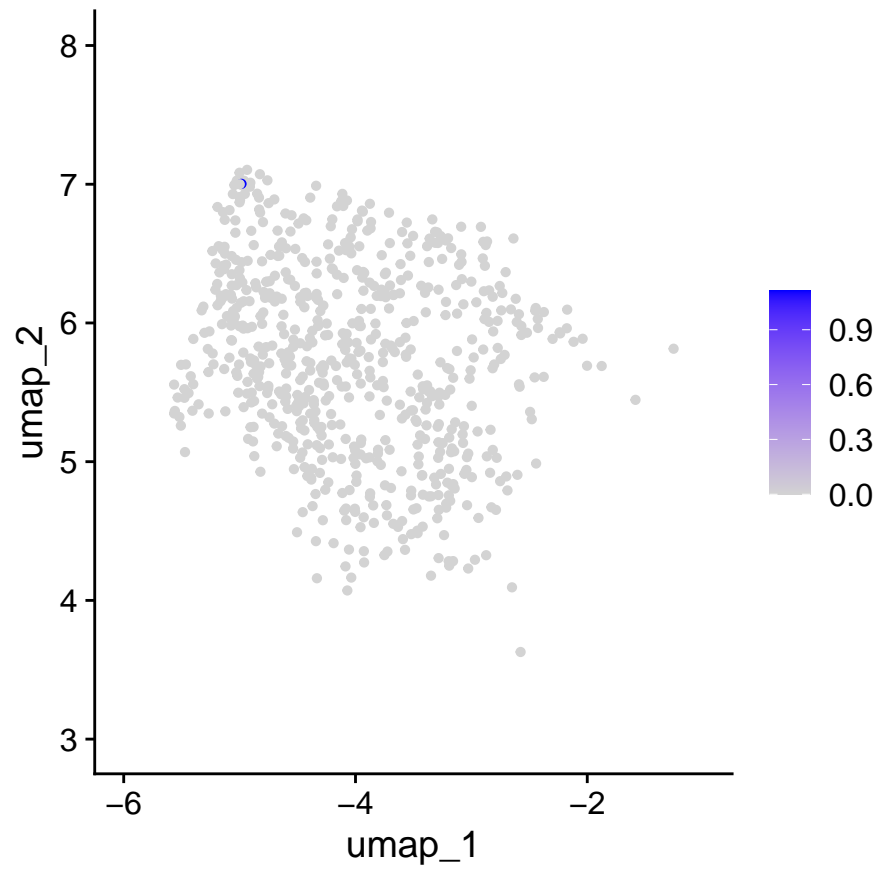
MPP: SOX4



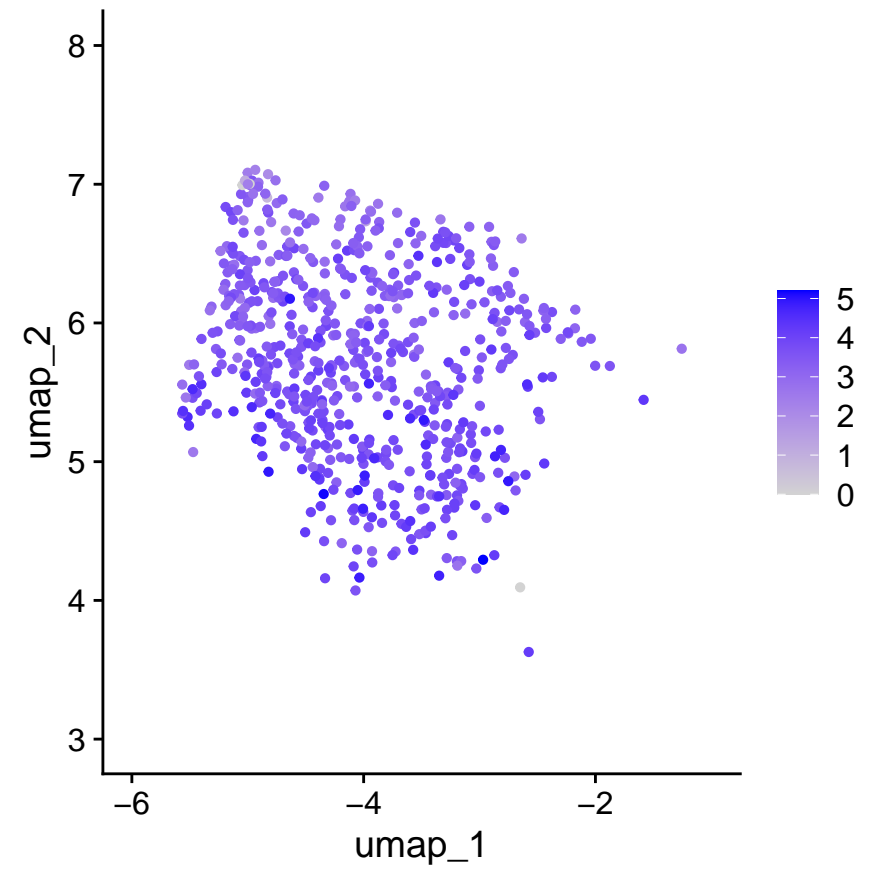
CMP: IL3RA



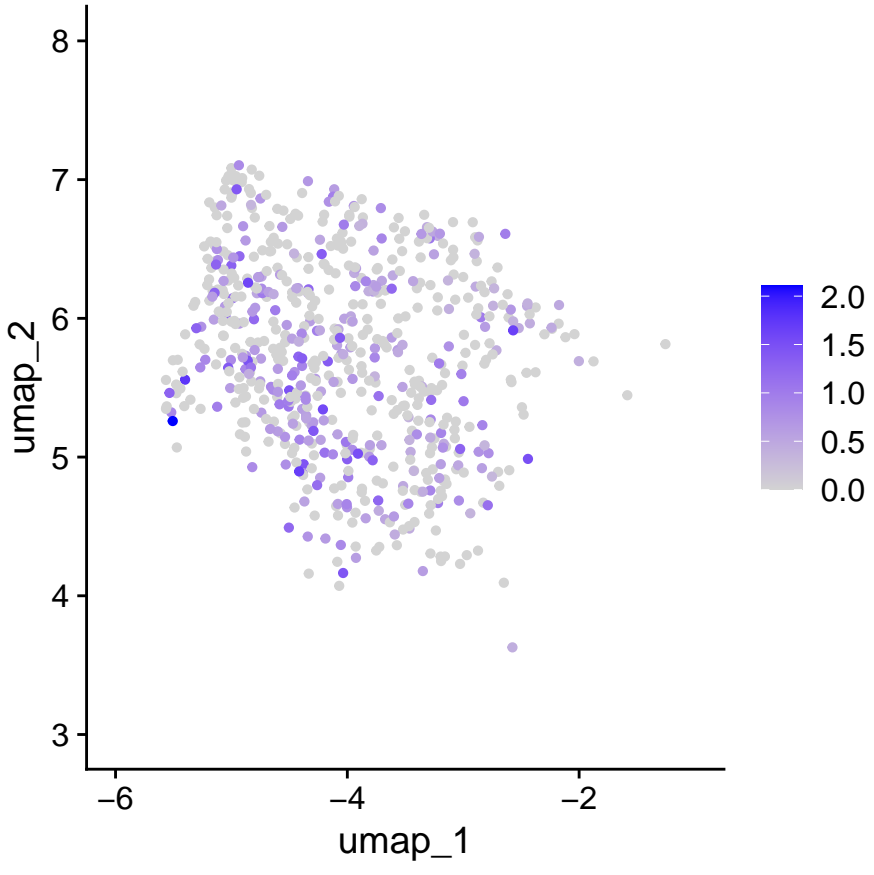
CMP: GATA1

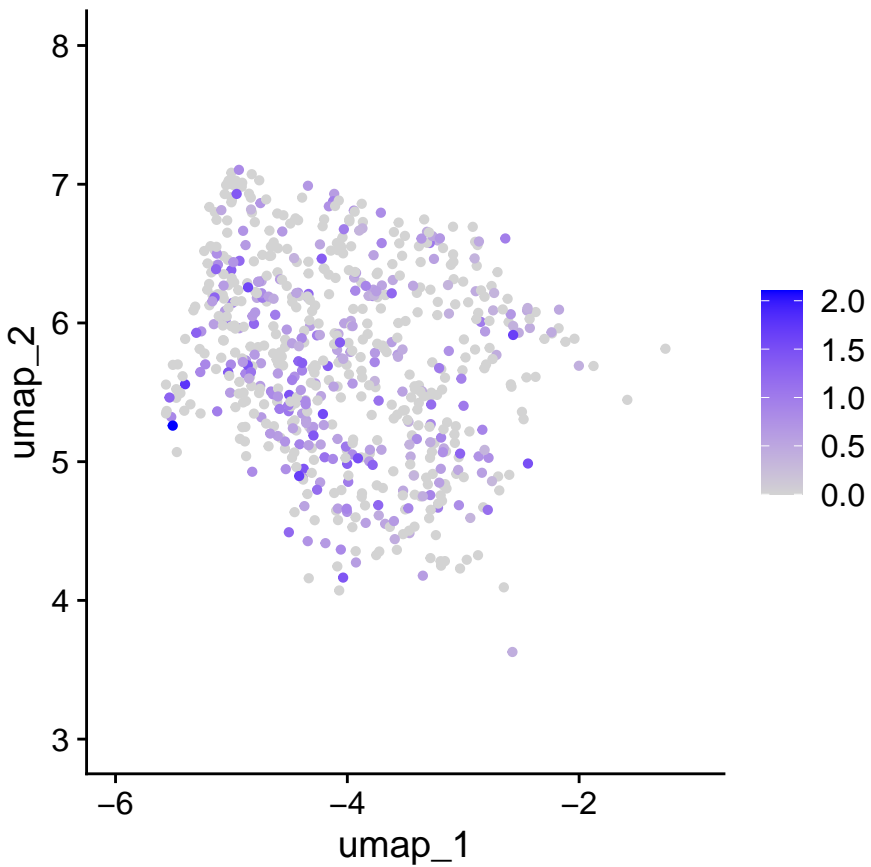
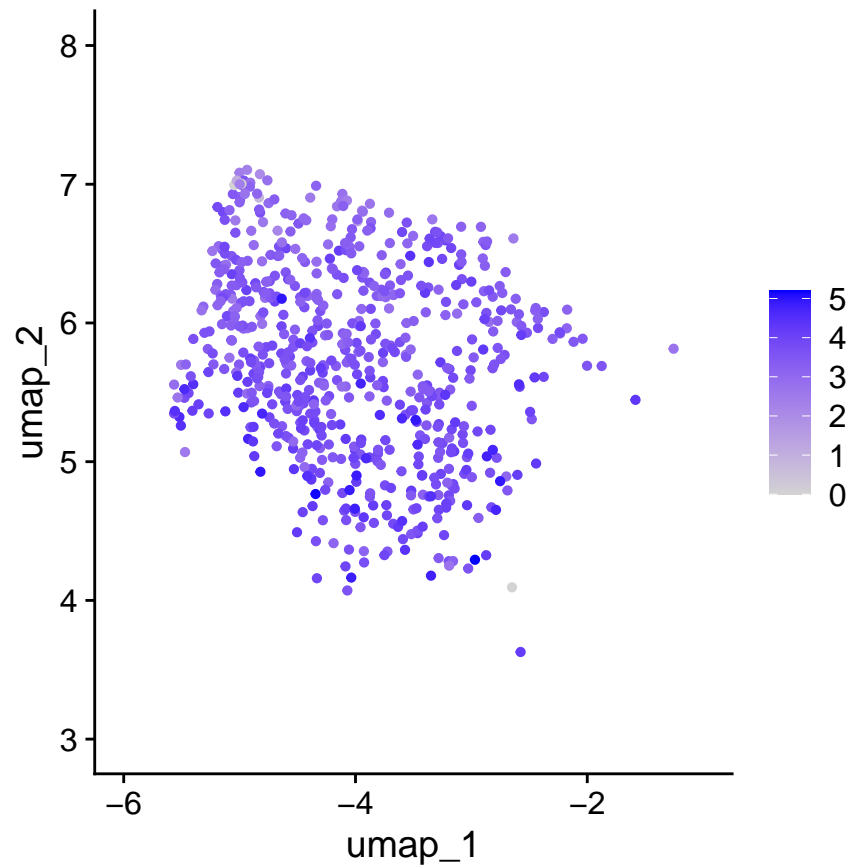
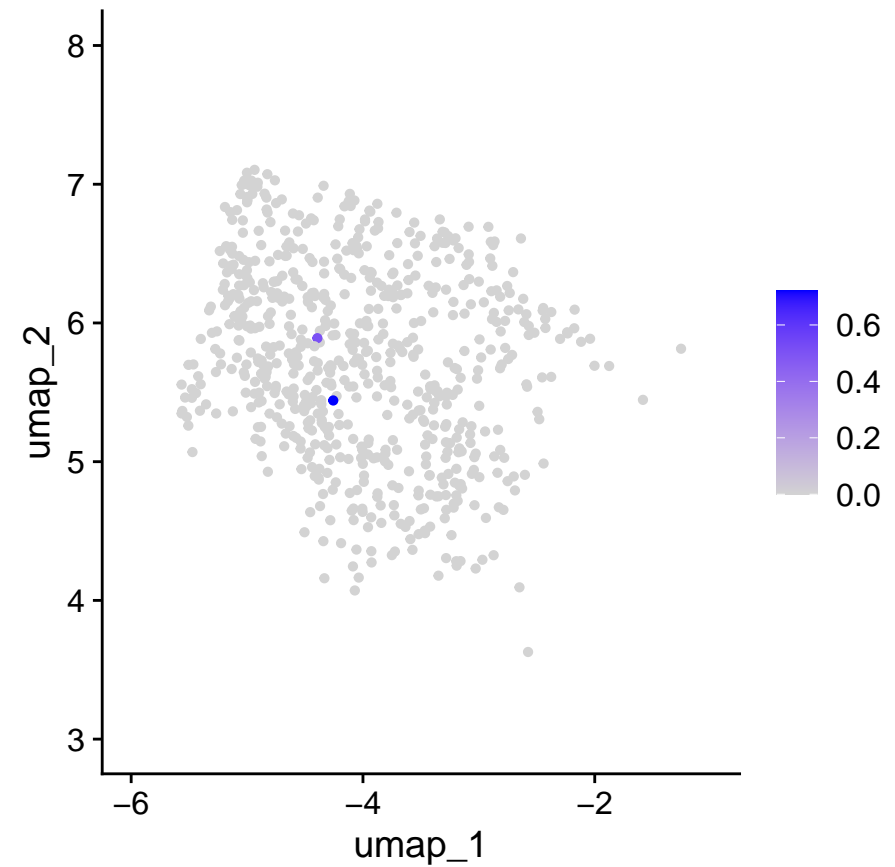
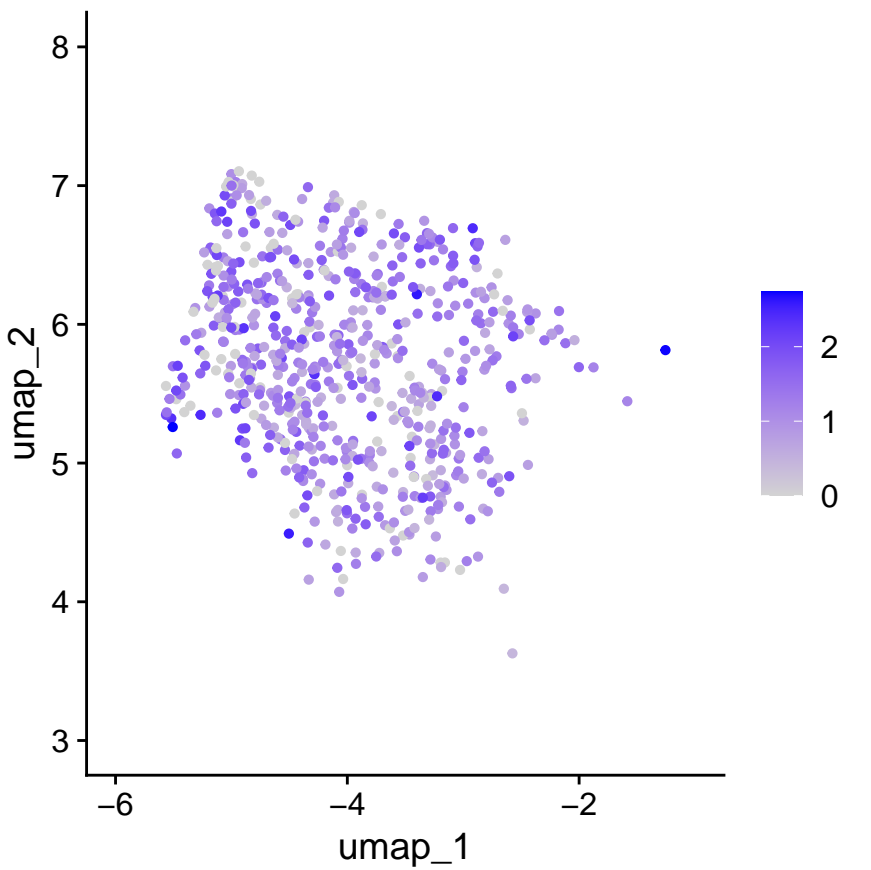
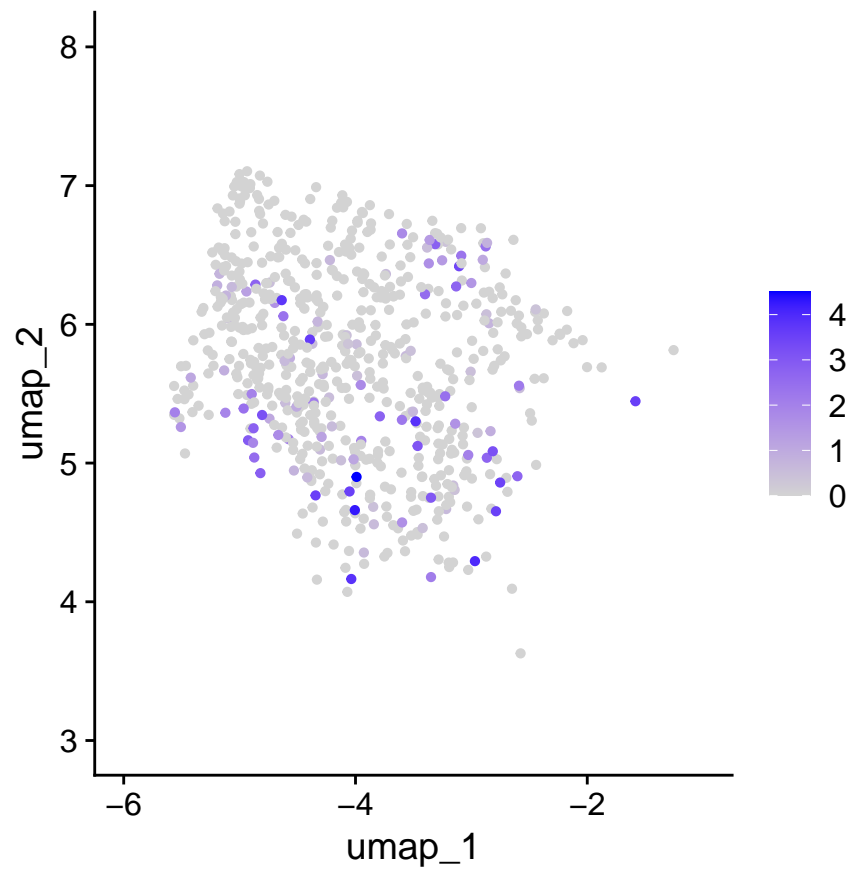
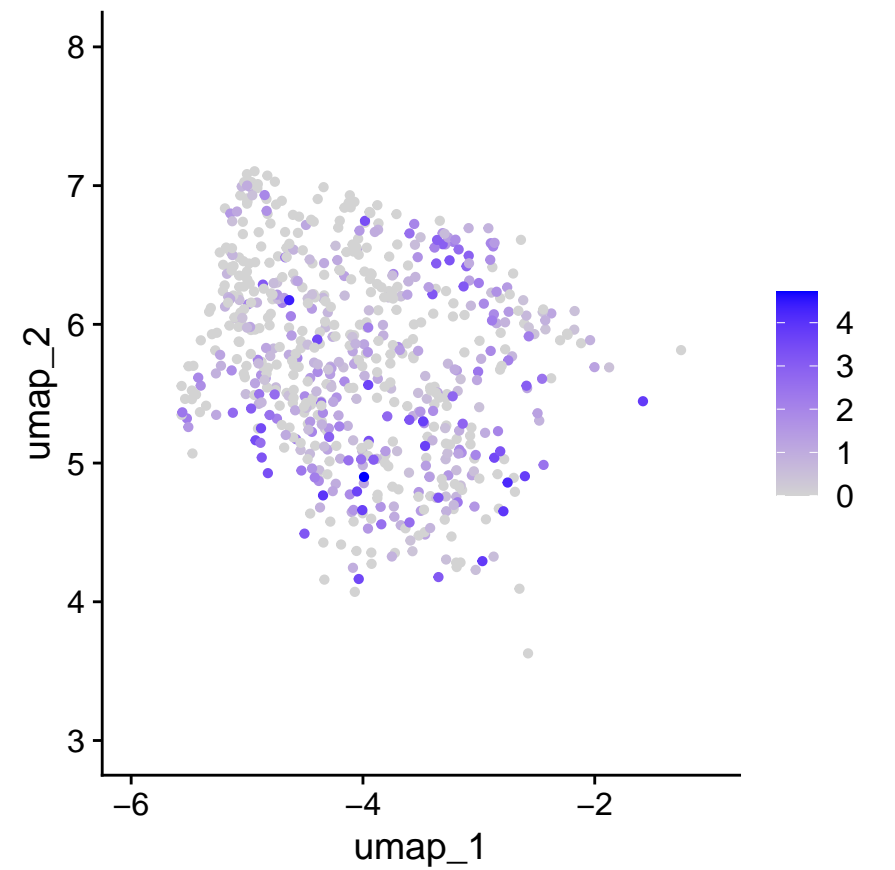


CMP: MPO

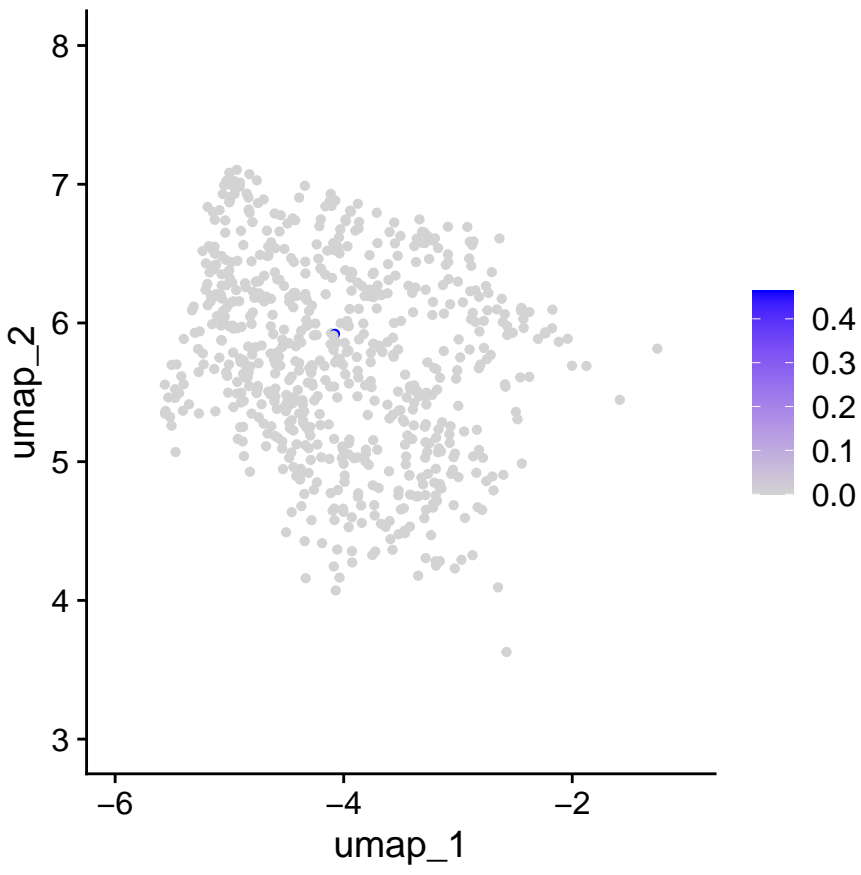


CMP: CEBPA

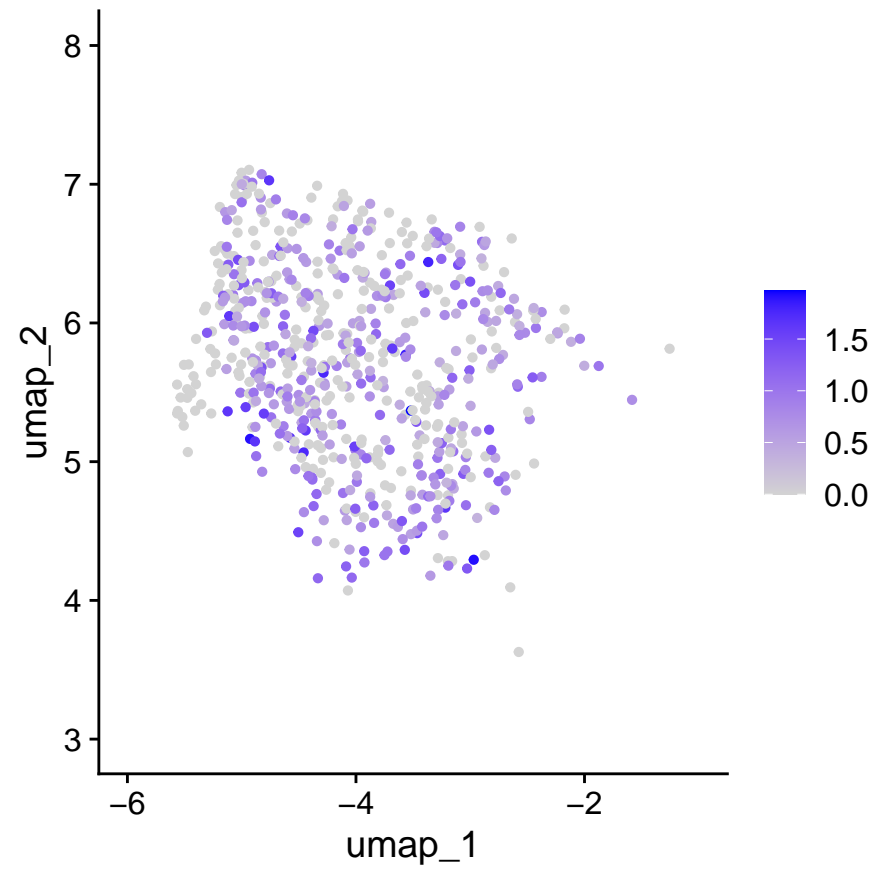


GMP: CEBPA**GMP: MPO****GMP: ITGAM****GMP: CSF3R****GMP: ELANE****GMP: AZU1**

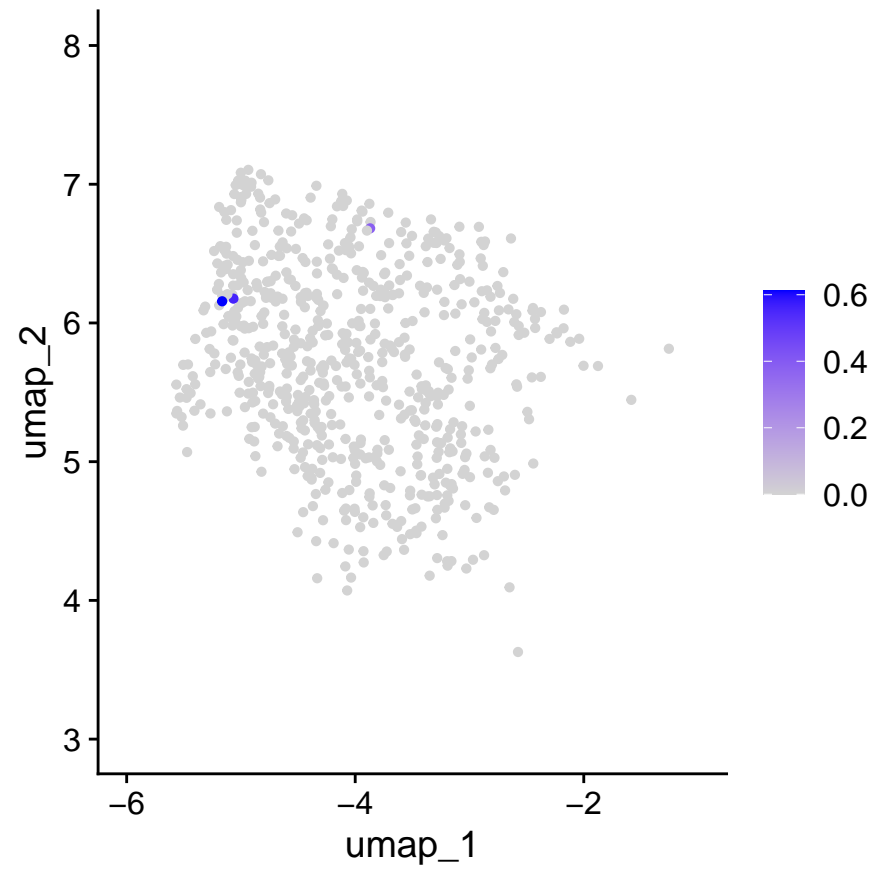
Diff: CD14



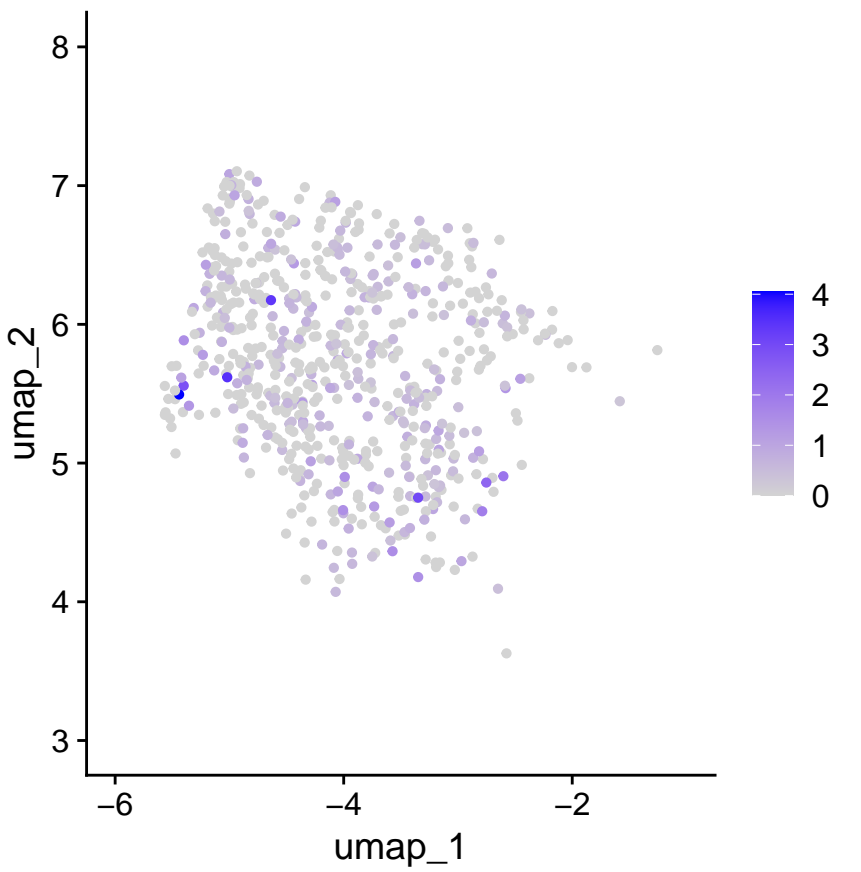
Diff: CD68



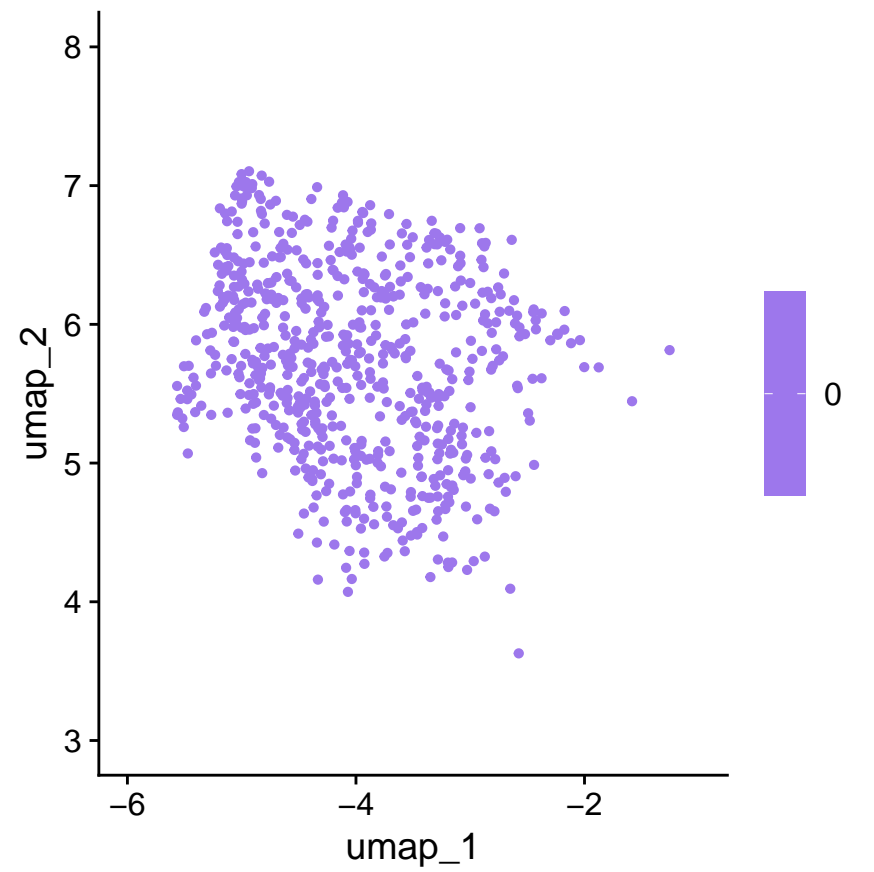
Diff: ITGAX



Diff: S100A9



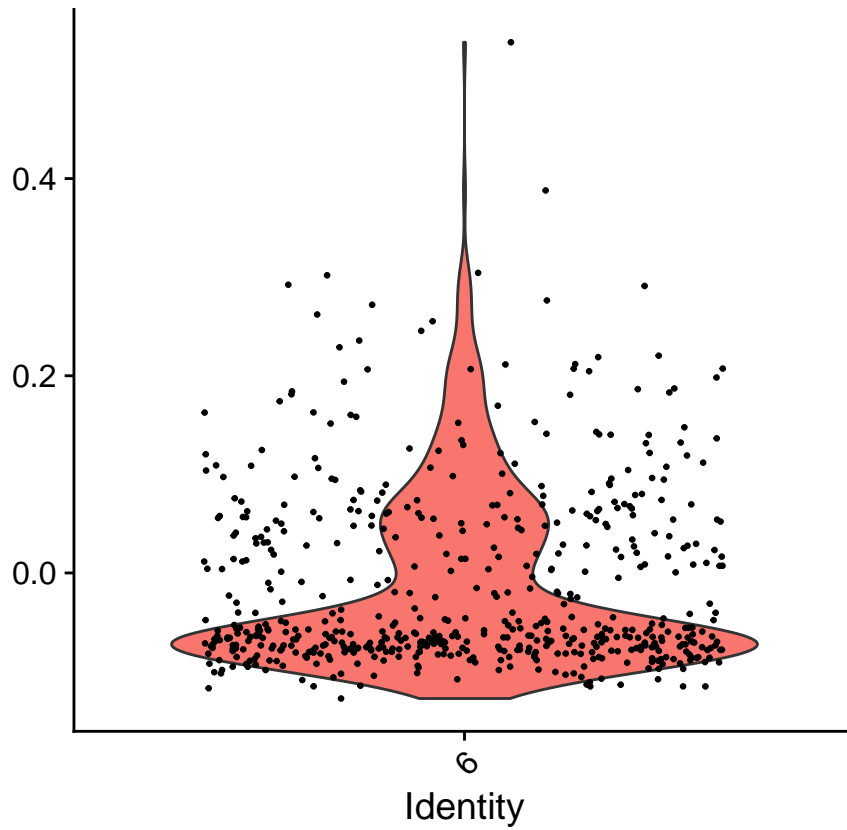
Diff: FCGR3A (0)



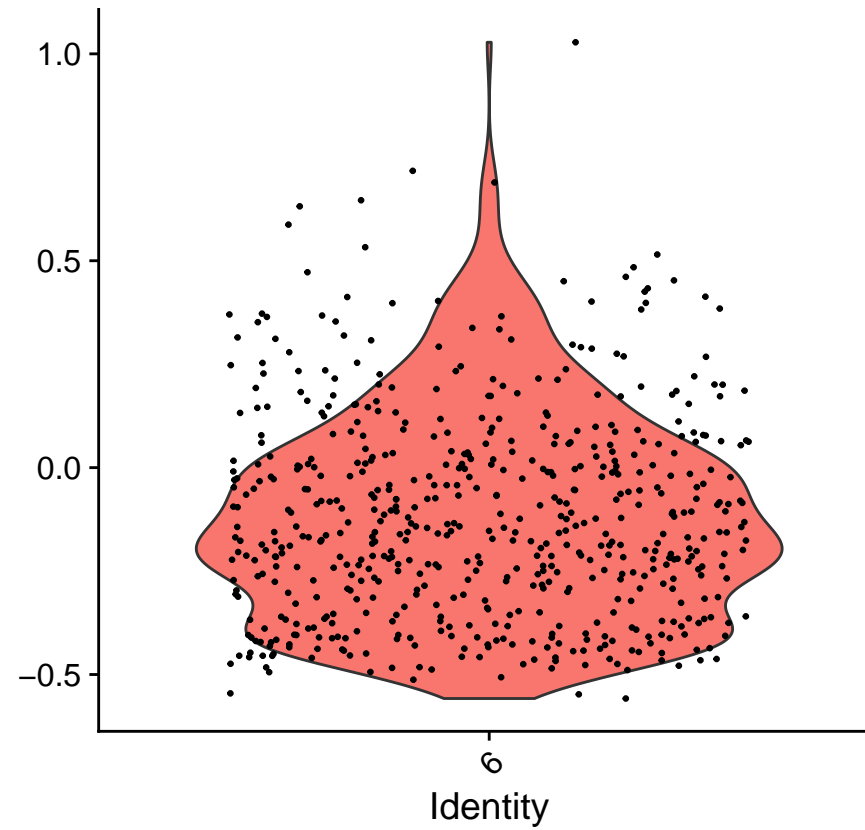
| | Stage | Cell_Count |
|---|--------------|-------------------|
| 1 | CMP_score1 | 57 |
| 2 | Diff_score1 | 30 |
| 3 | GMP_score1 | 493 |

Cluster 6 – Score Violin Plot

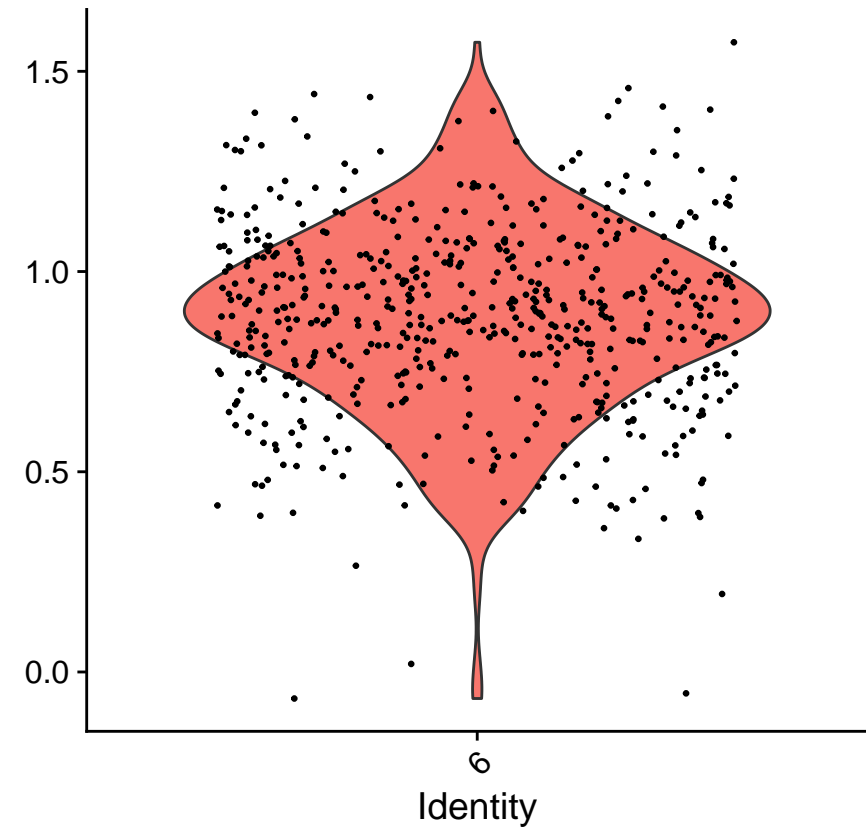
HSC_score1



MPP_score1



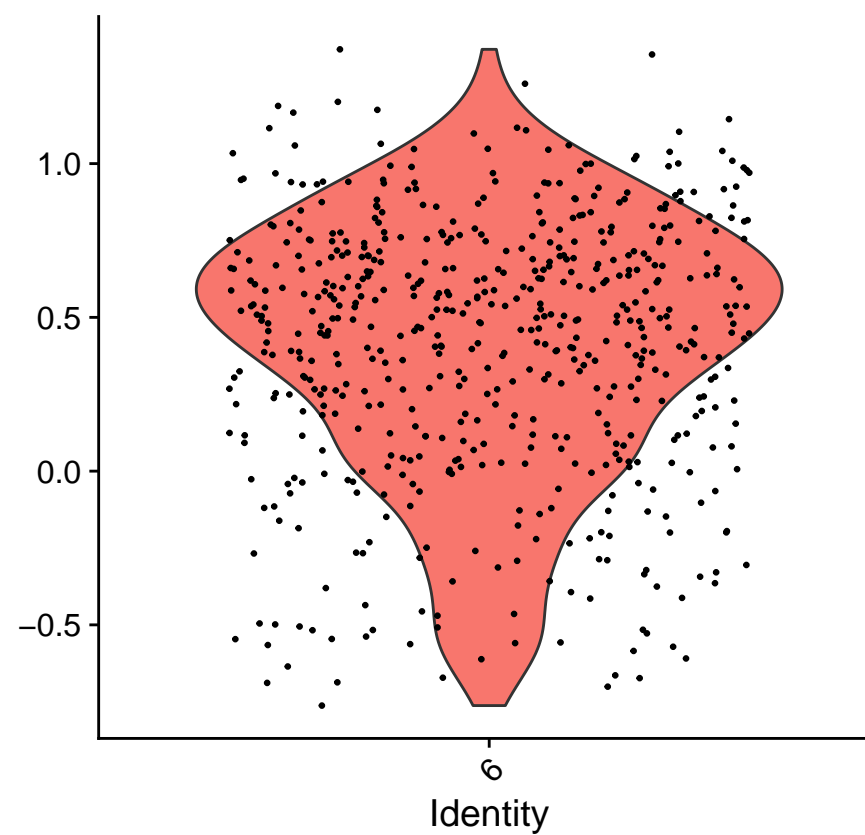
CMP_score1

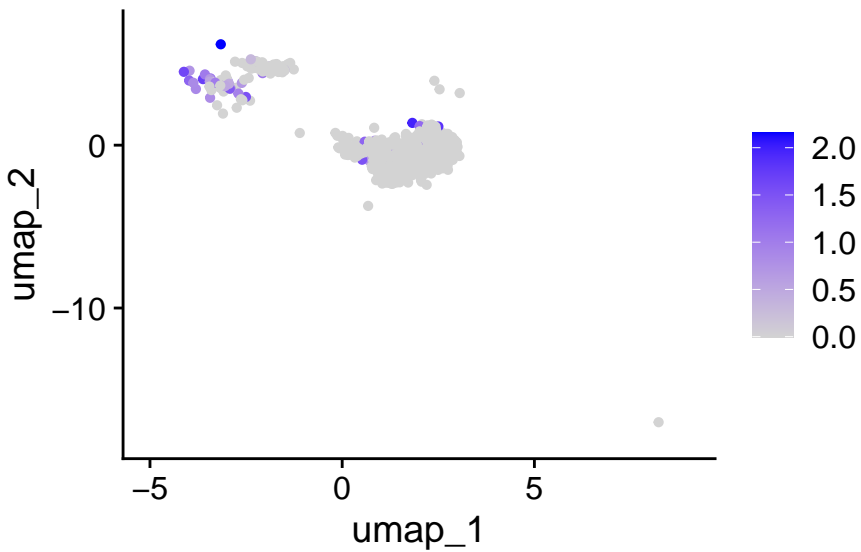
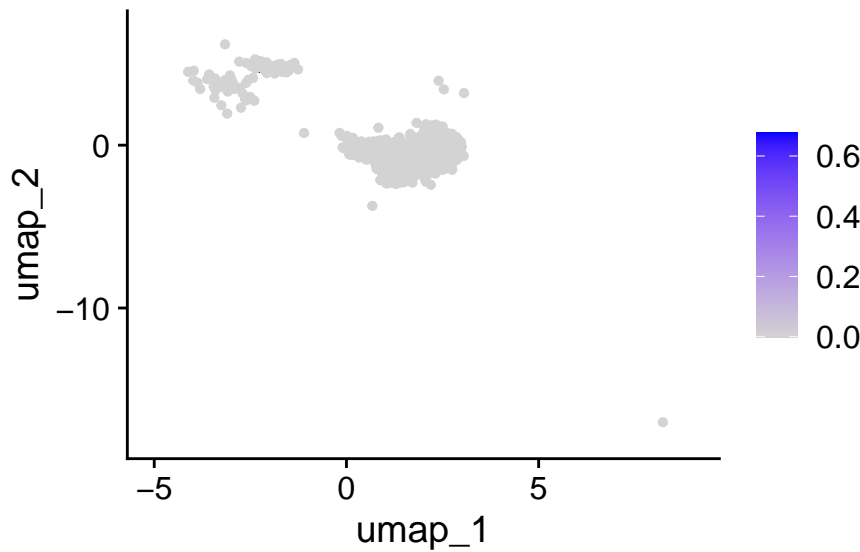
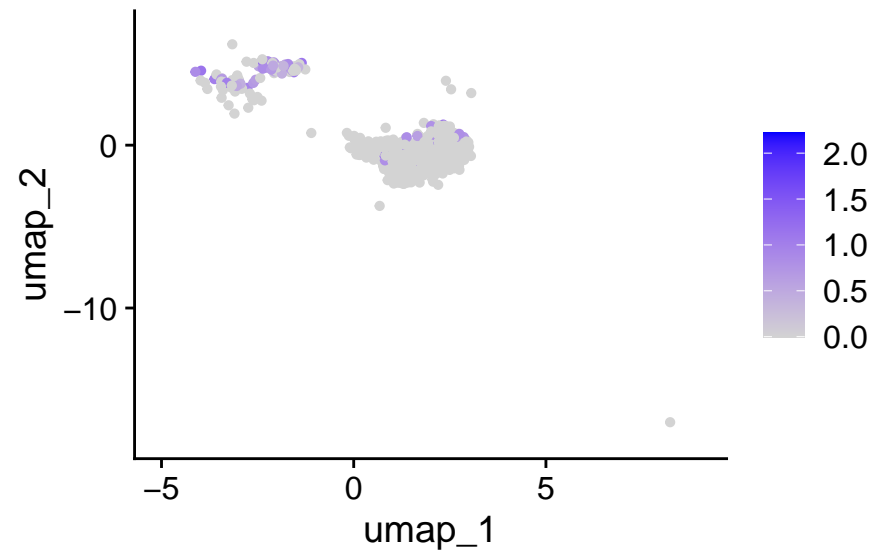
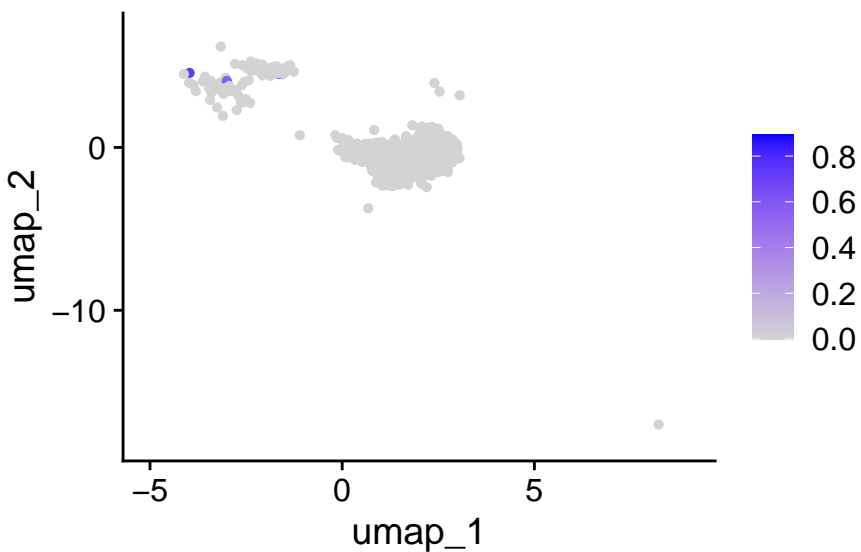
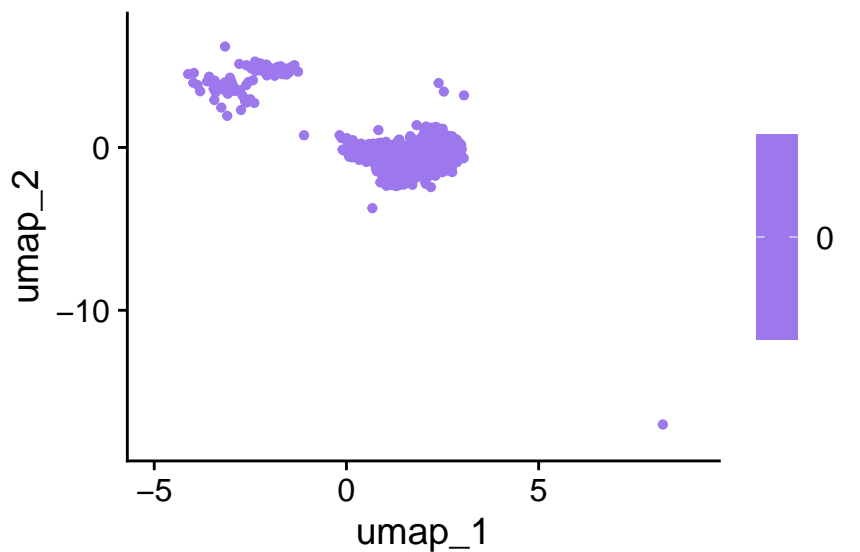
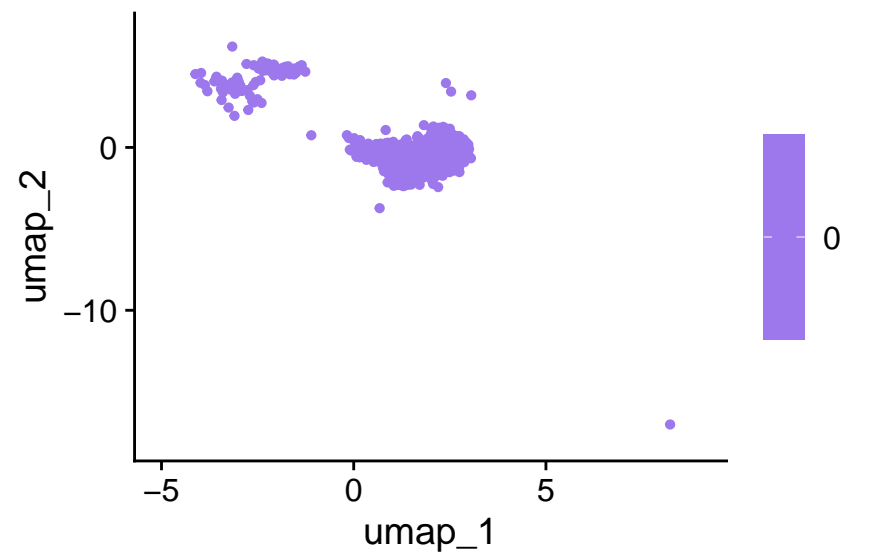
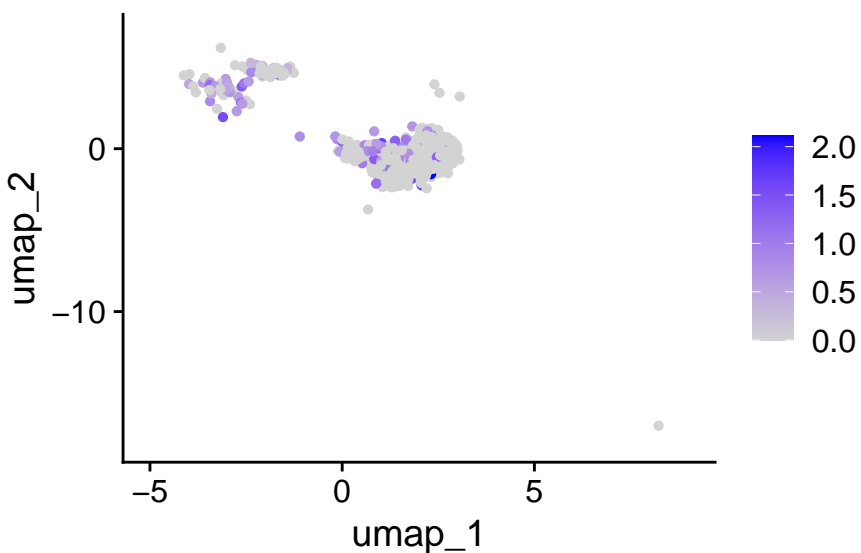


GMP_score1

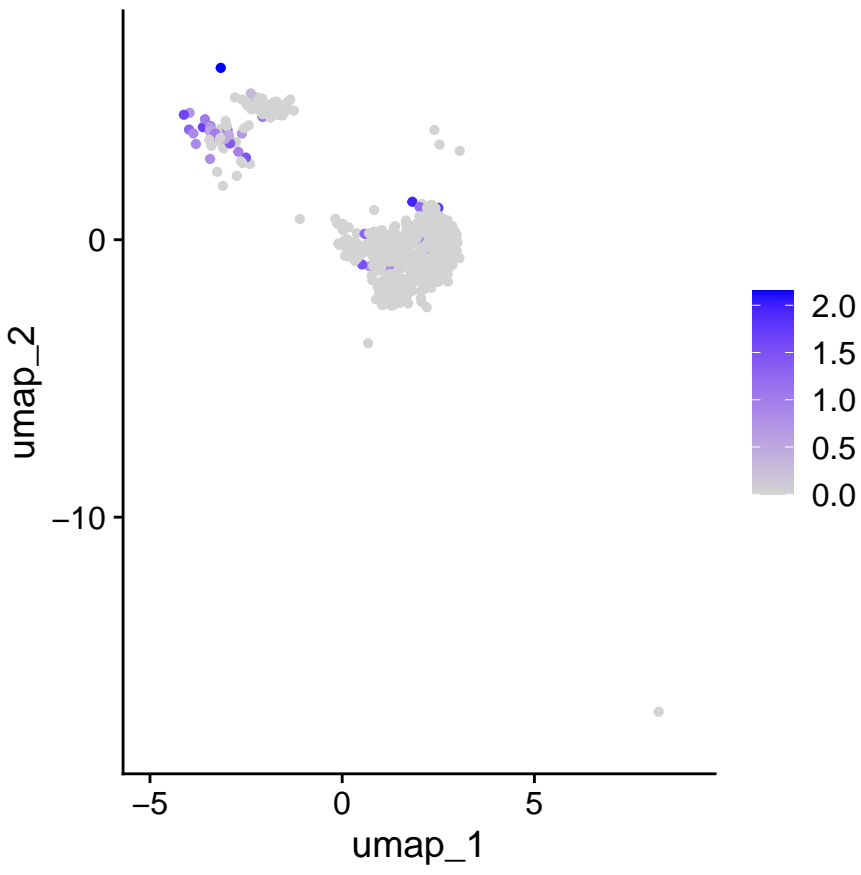


Diff_score1

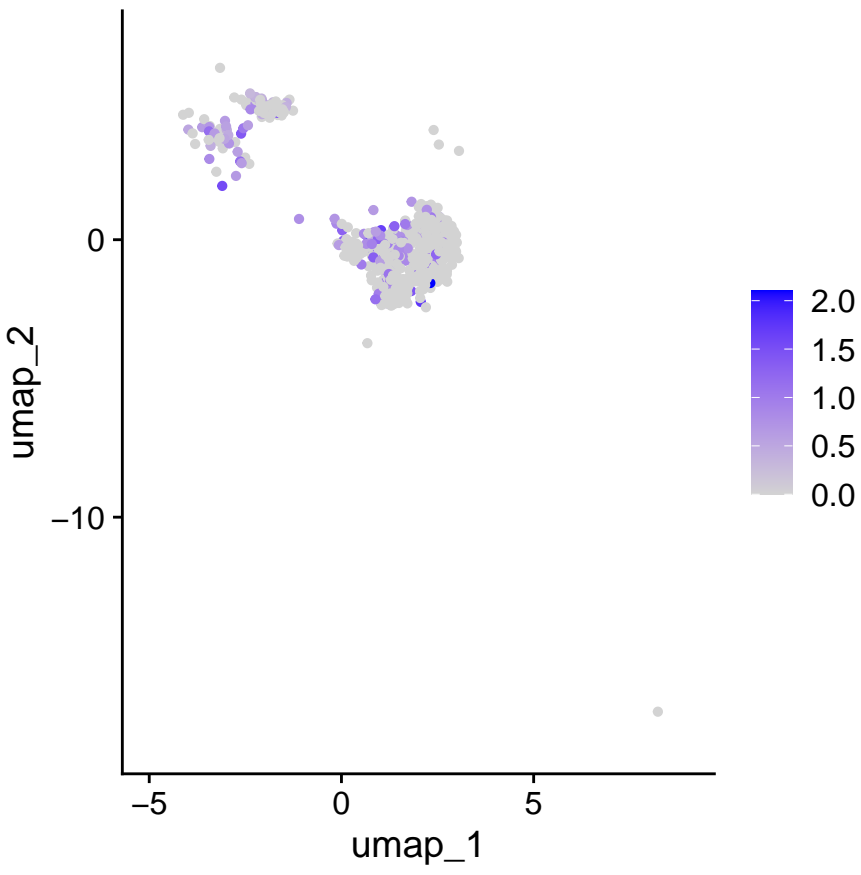


HSC: CD34**HSC: AVP****HSC: PROM1****HSC: MEIS1****HSC: GATA2 (0)****HSC: HOXA9 (0)****HSC: FLT3**

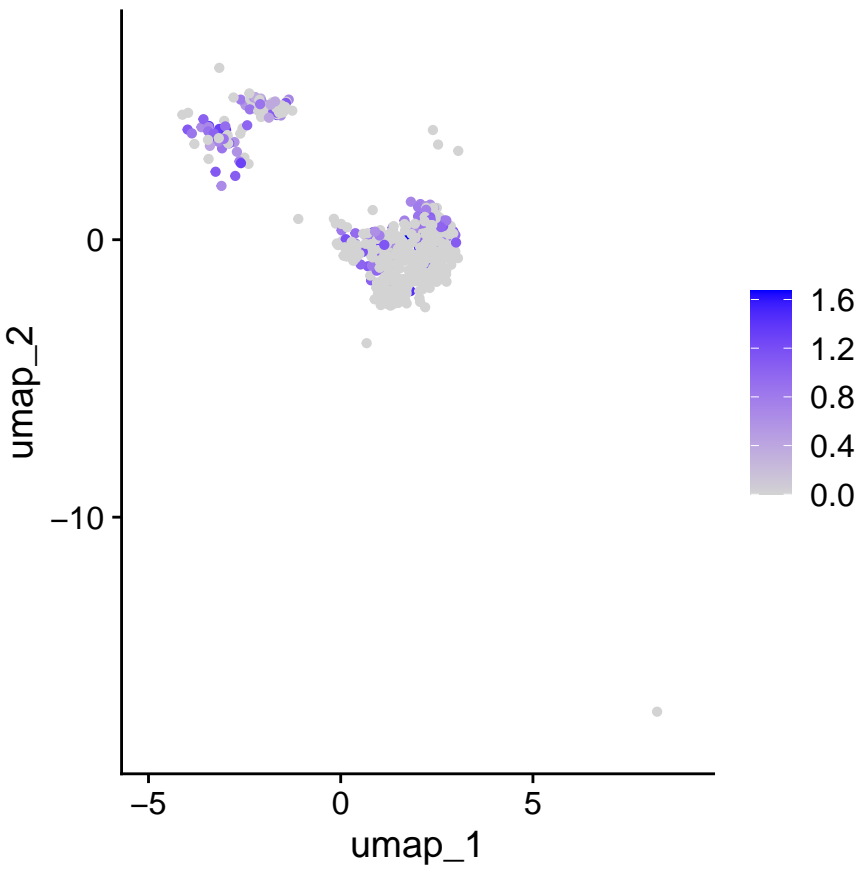
MPP: CD34



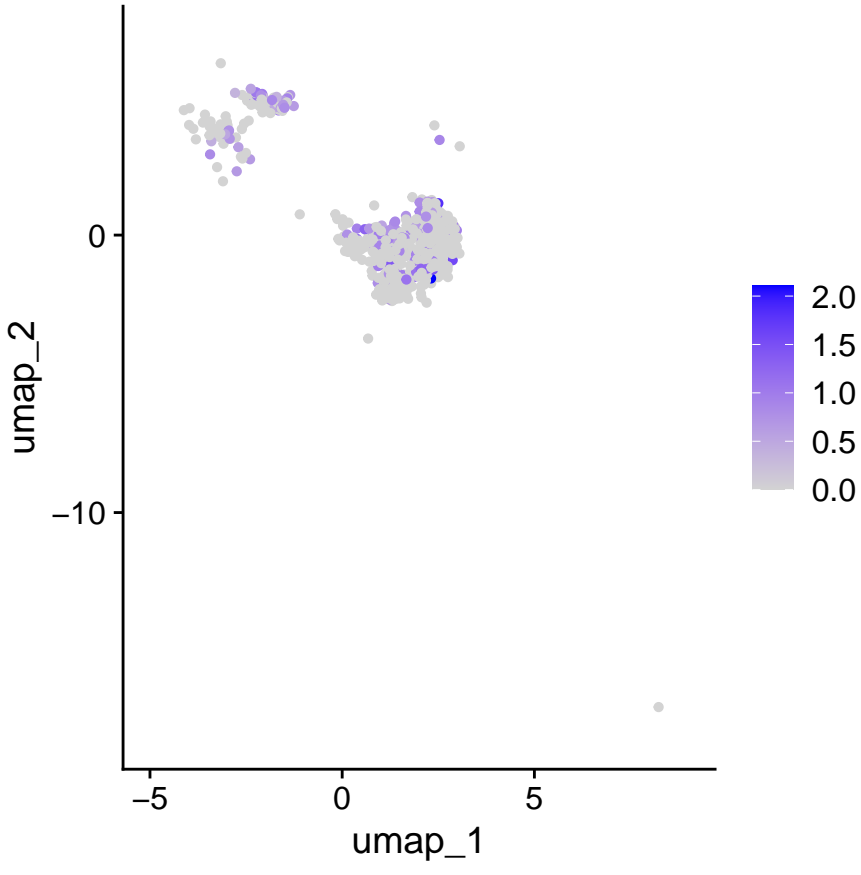
MPP: FLT3



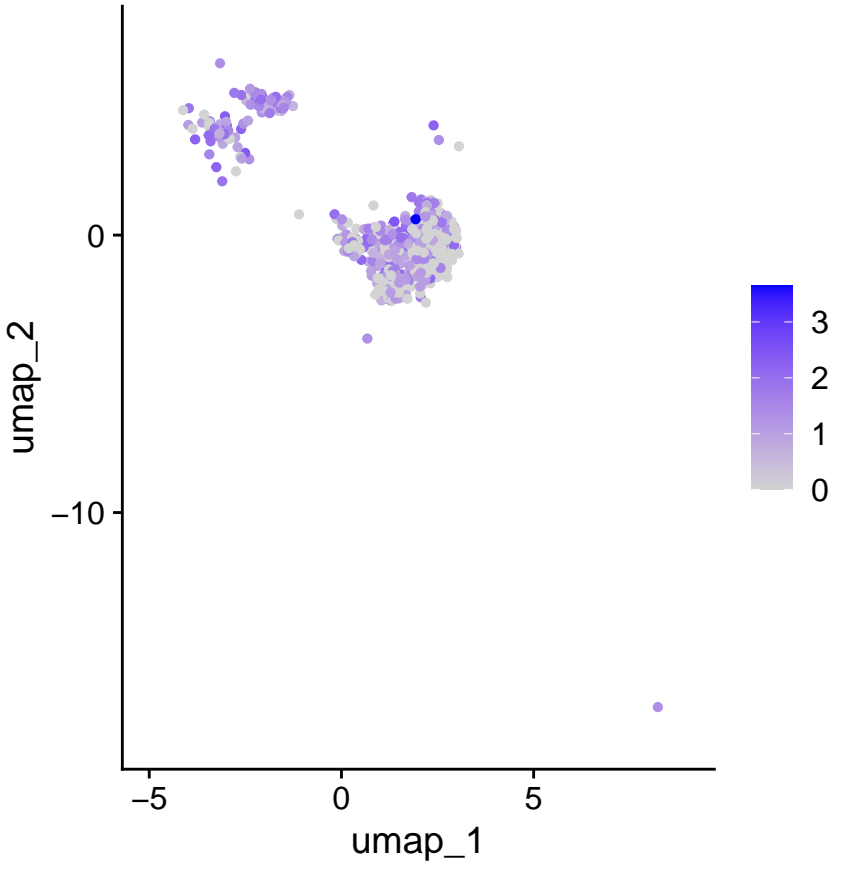
MPP: KIT



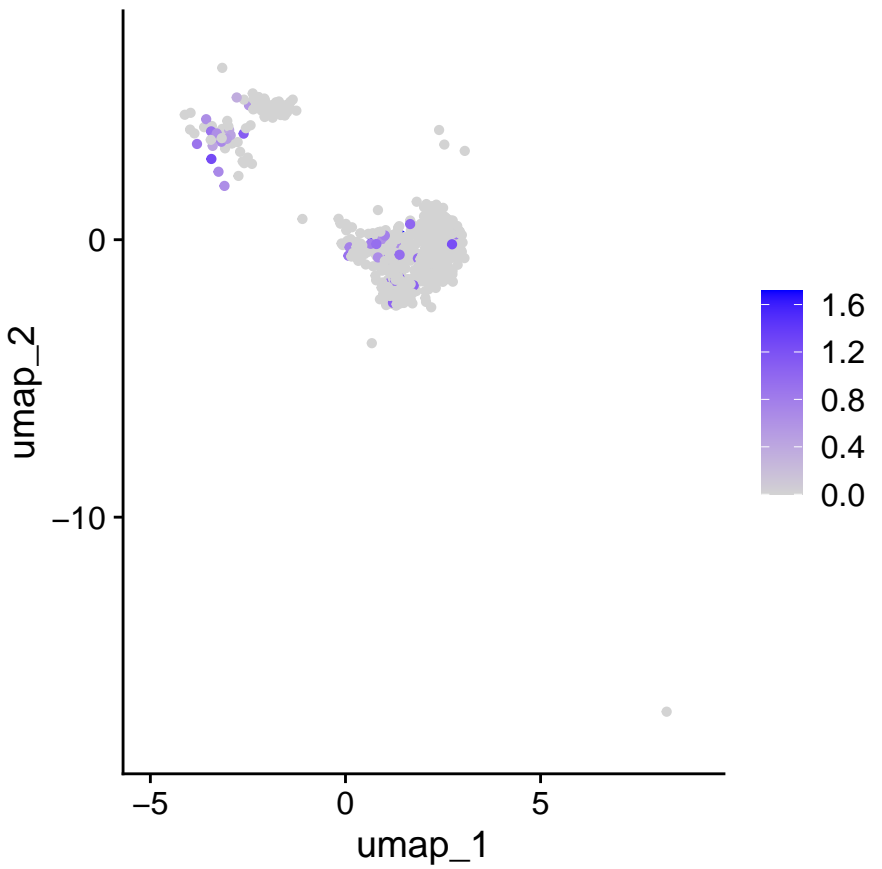
MPP: CD38



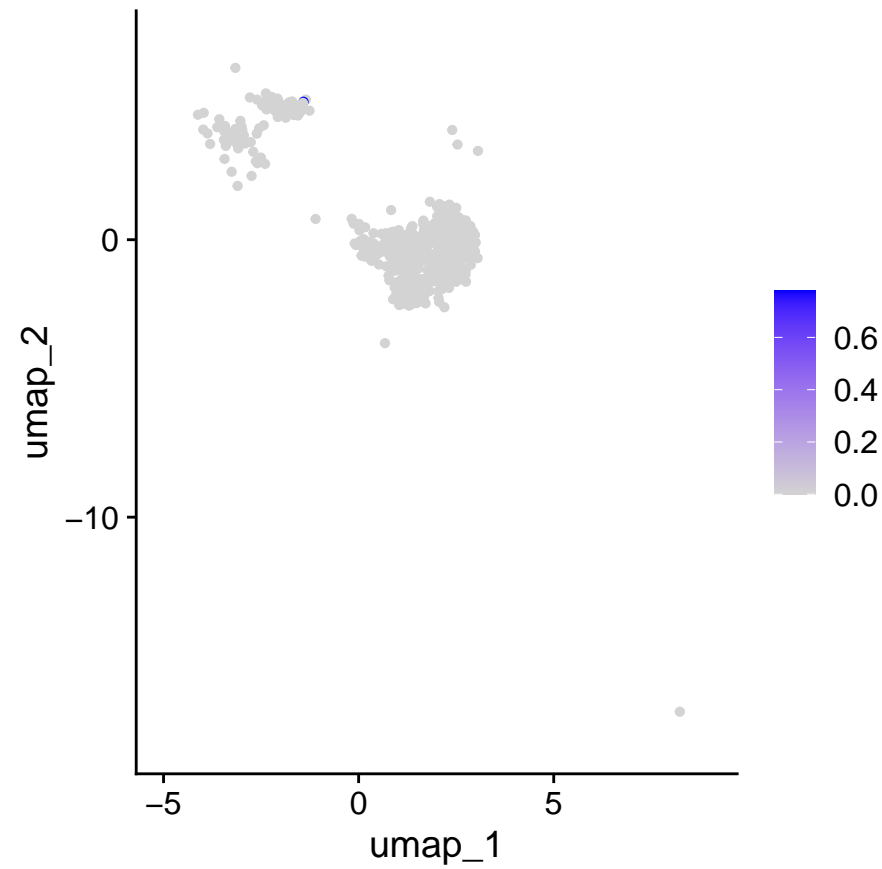
MPP: SOX4



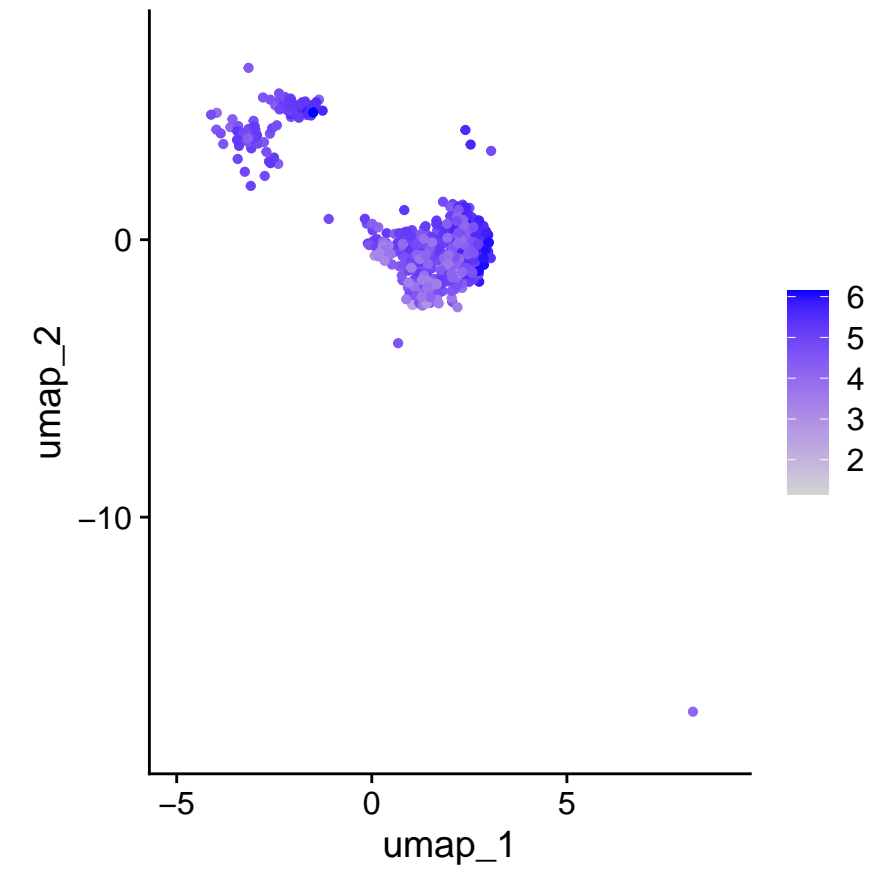
CMP: IL3RA



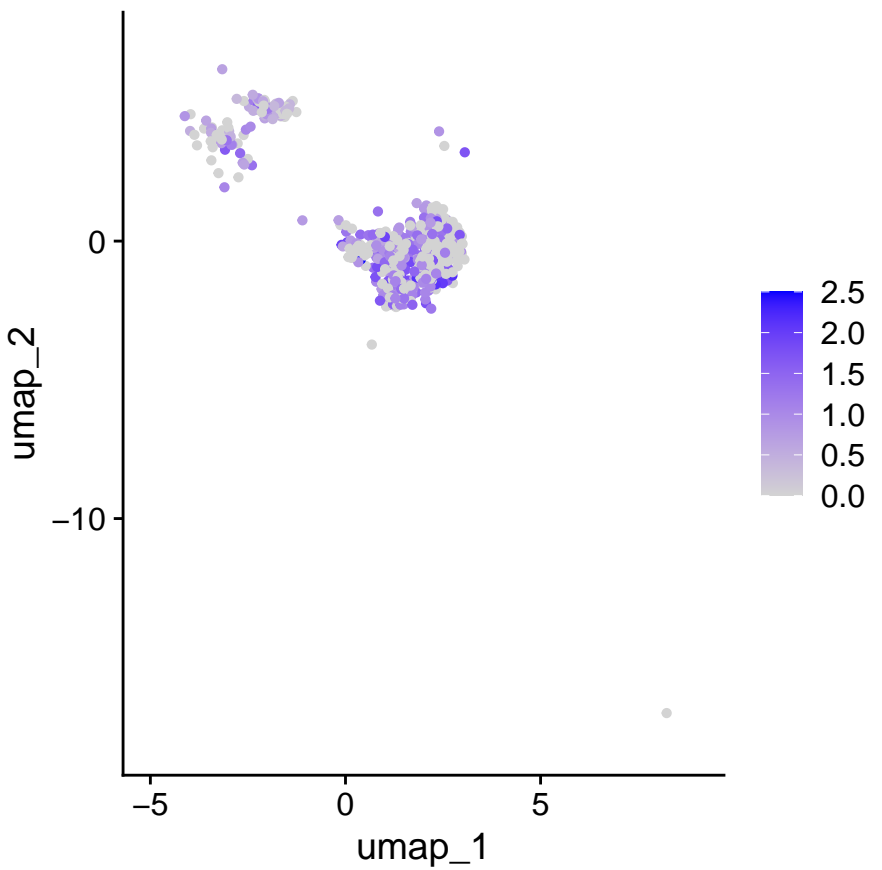
CMP: GATA1



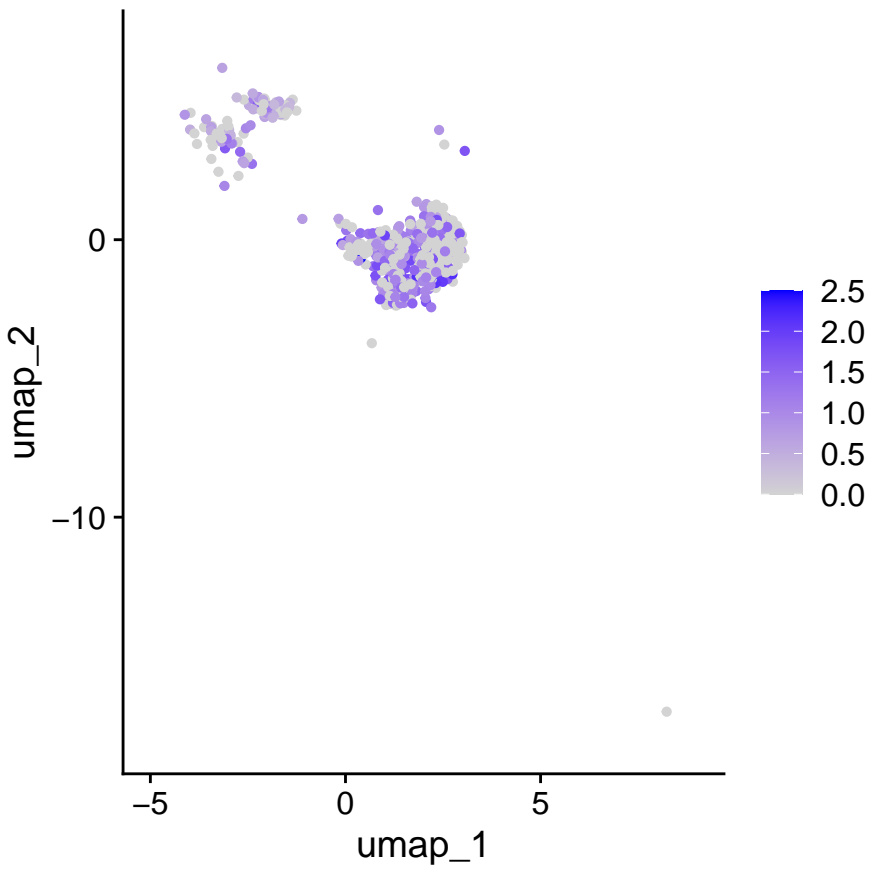
CMP: MPO



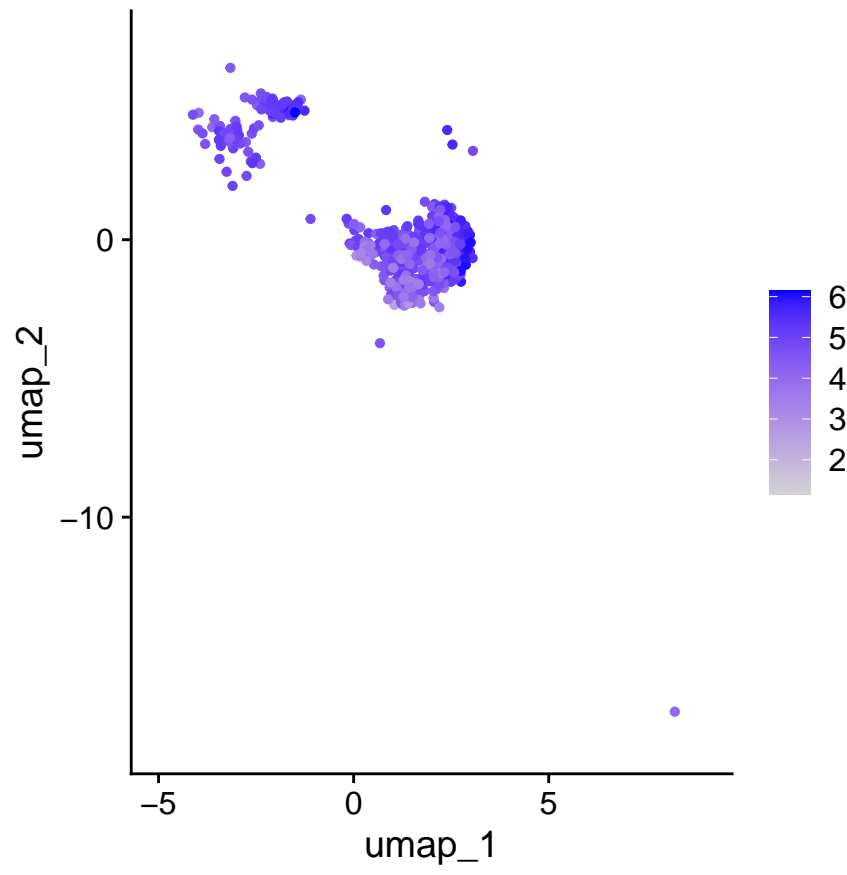
CMP: CEBPA



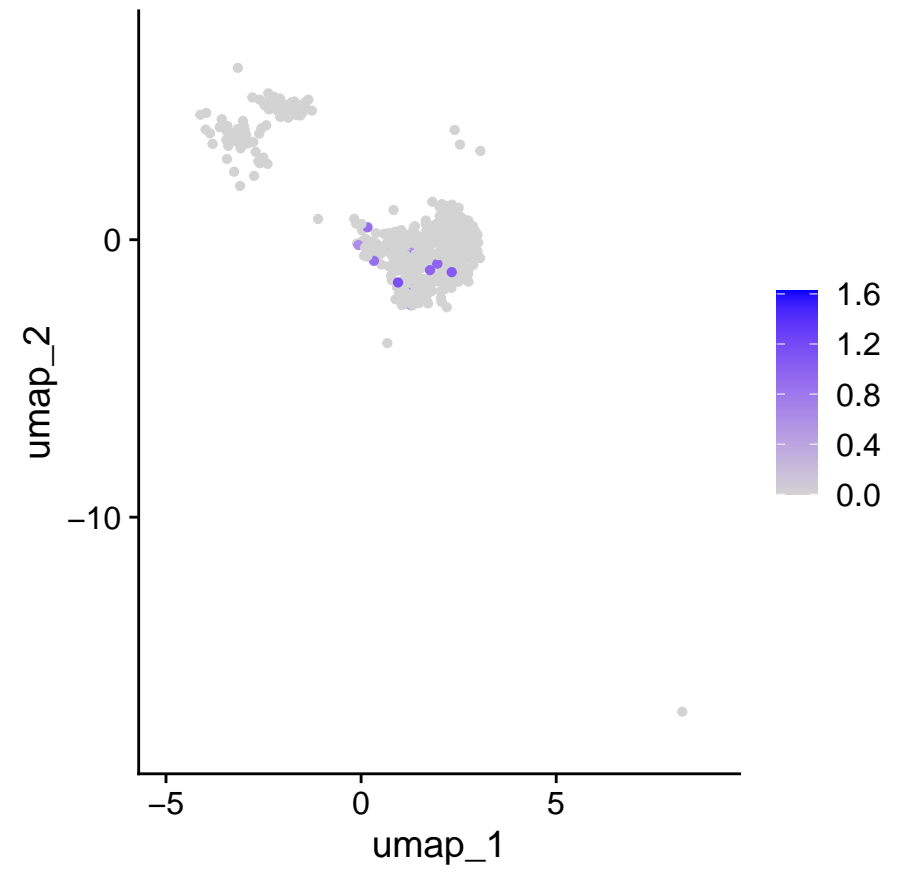
GMP: CEBPA



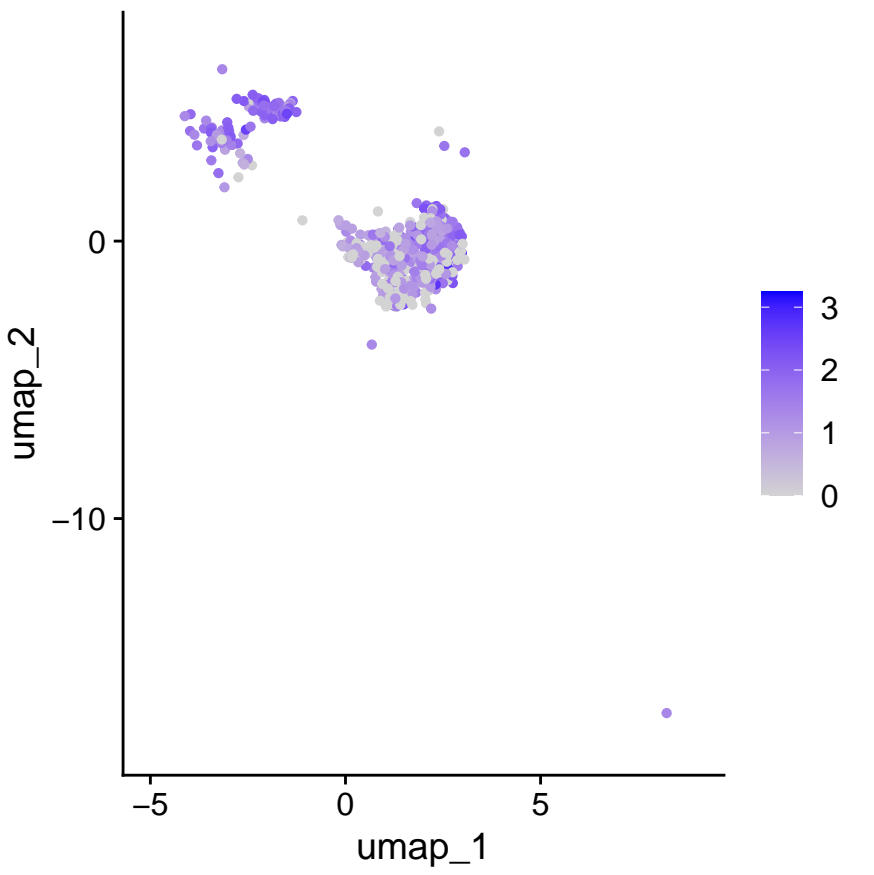
GMP: MPO



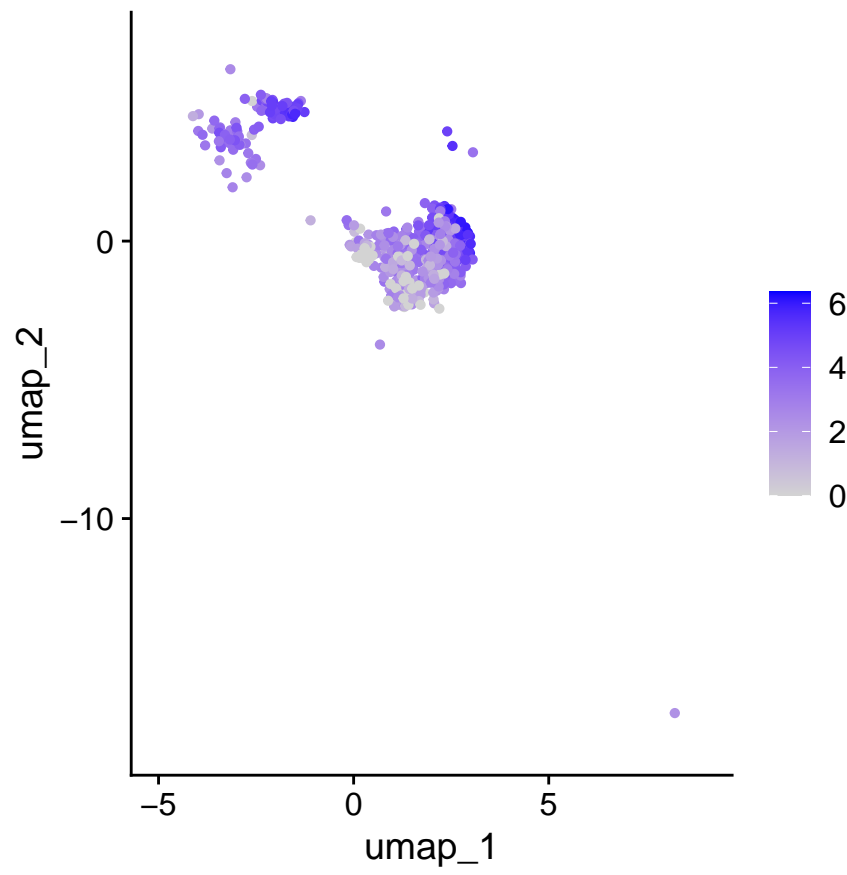
GMP: ITGAM



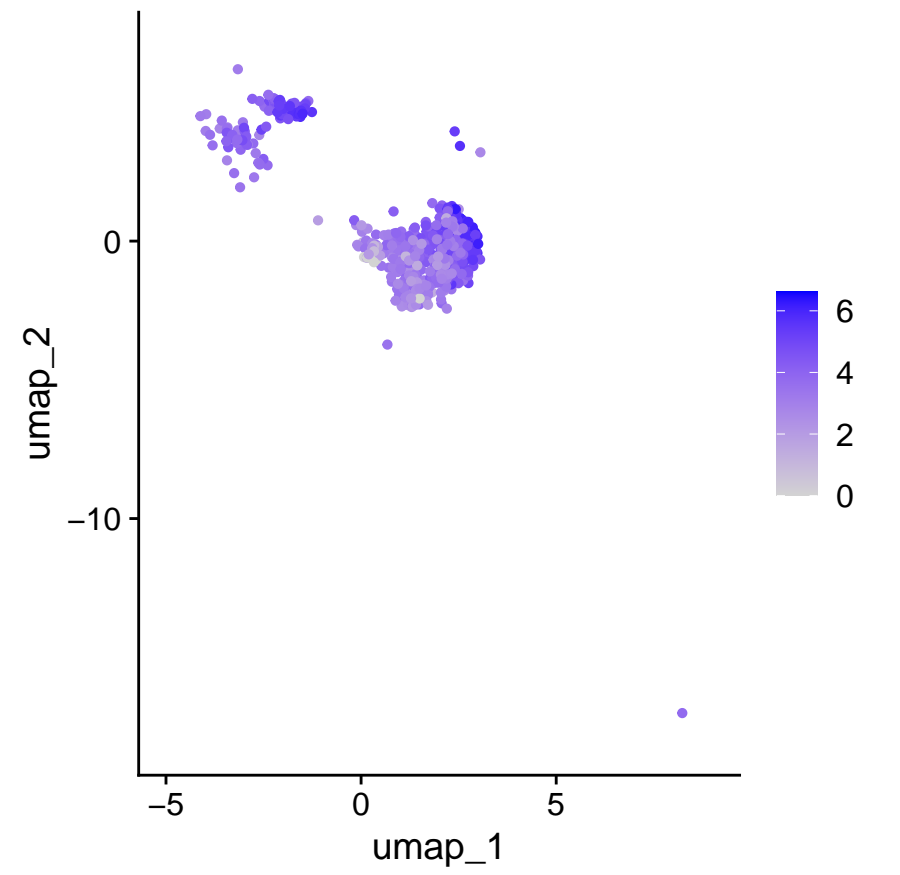
GMP: CSF3R



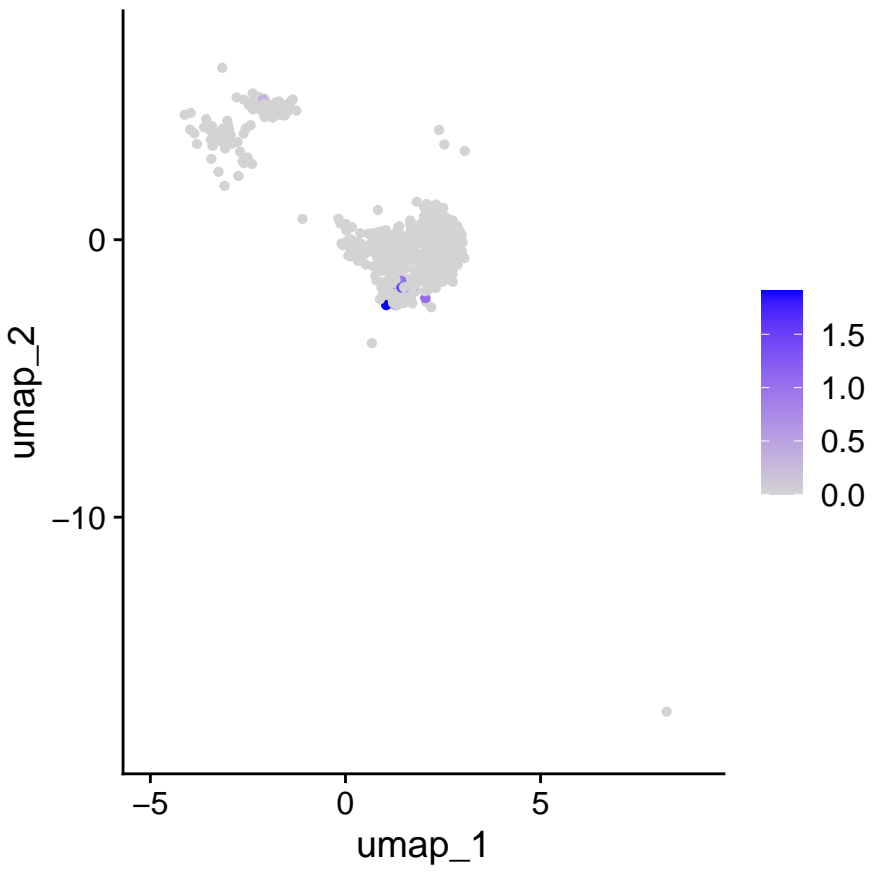
GMP: ELANE



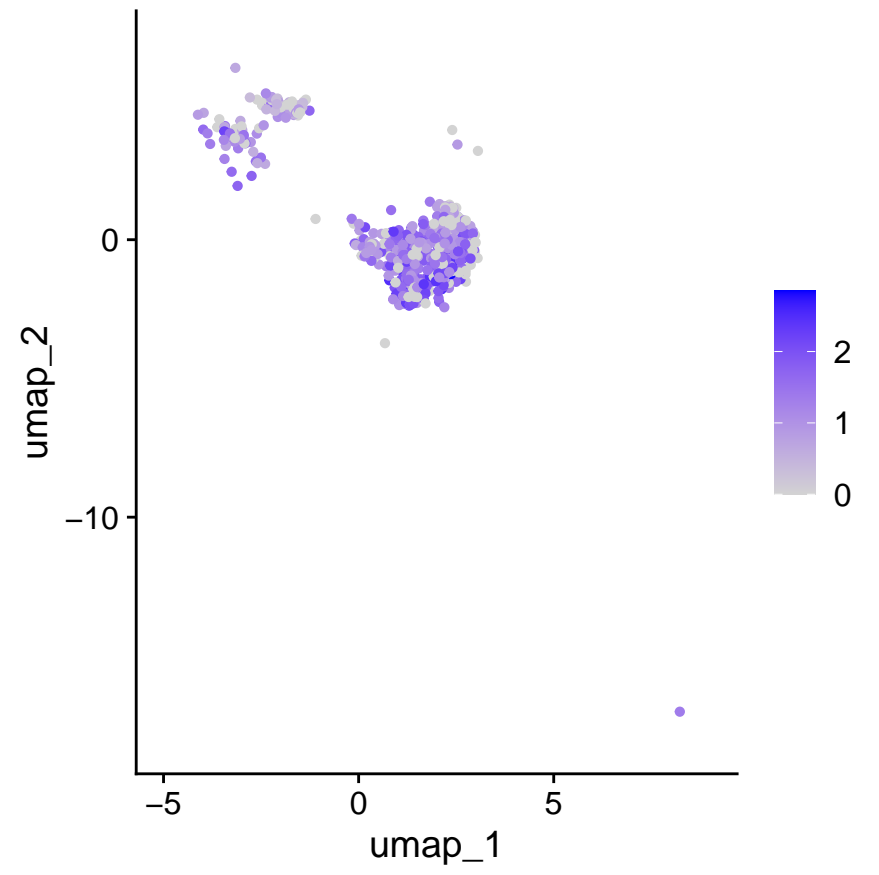
GMP: AZU1



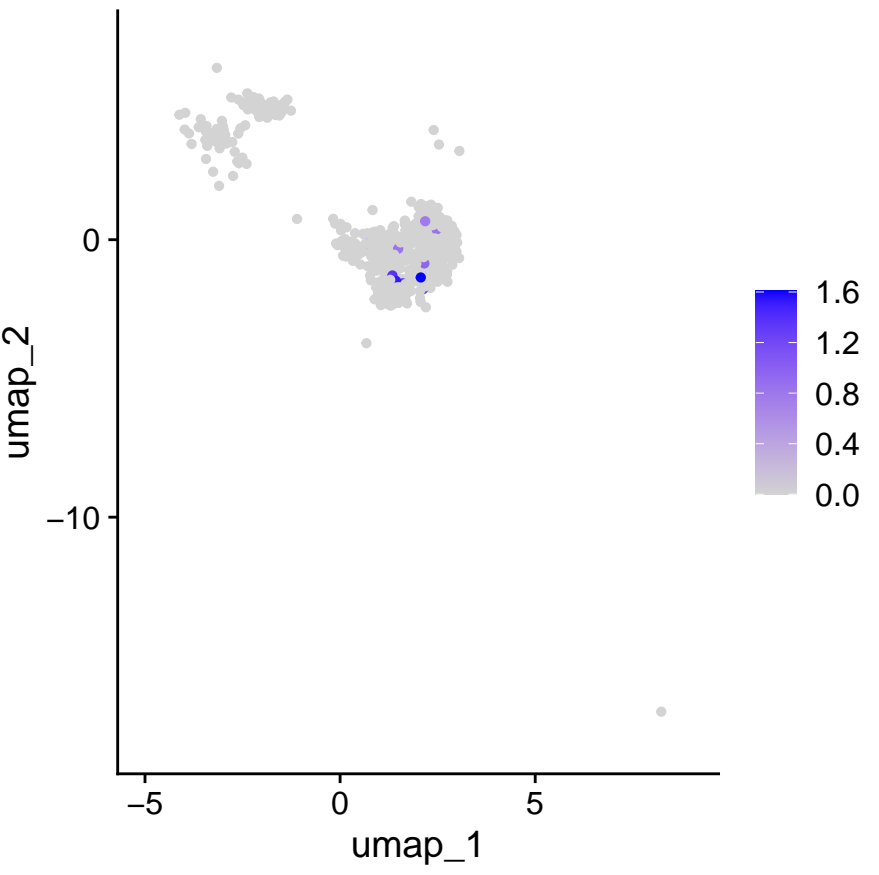
Diff: CD14



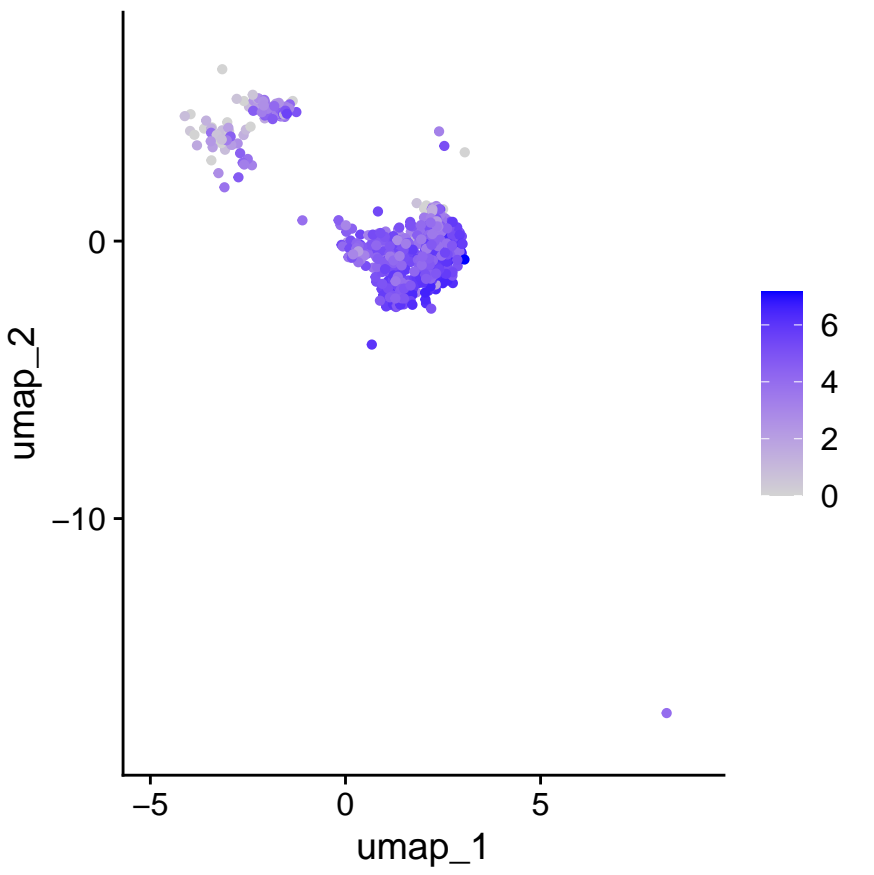
Diff: CD68



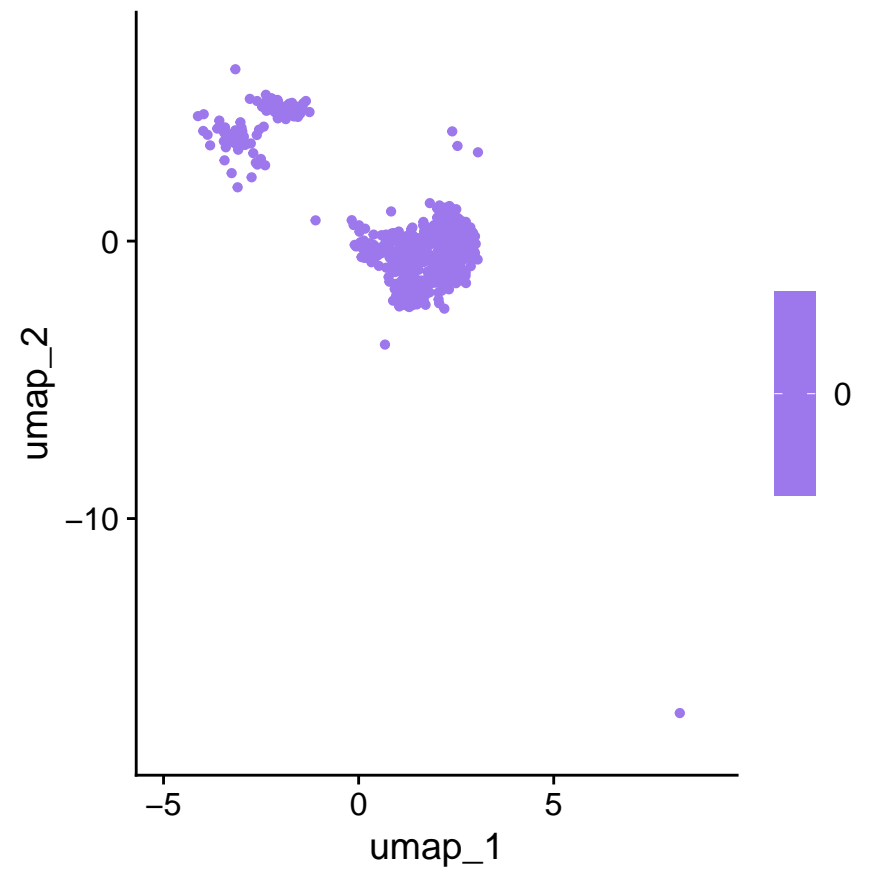
Diff: ITGAX



Diff: S100A9



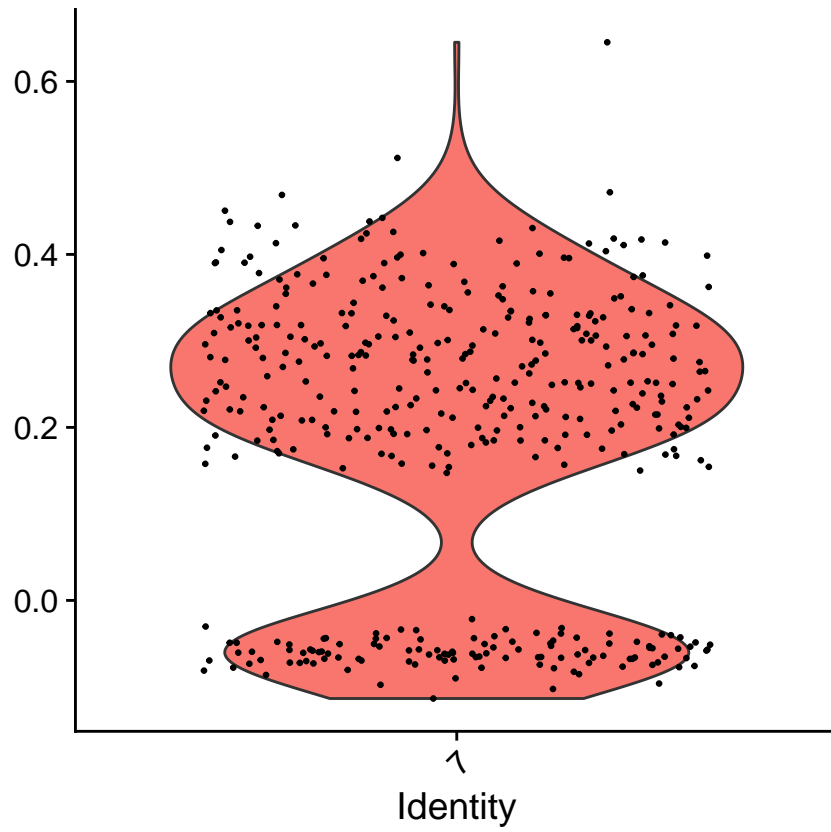
Diff: FCGR3A (0)



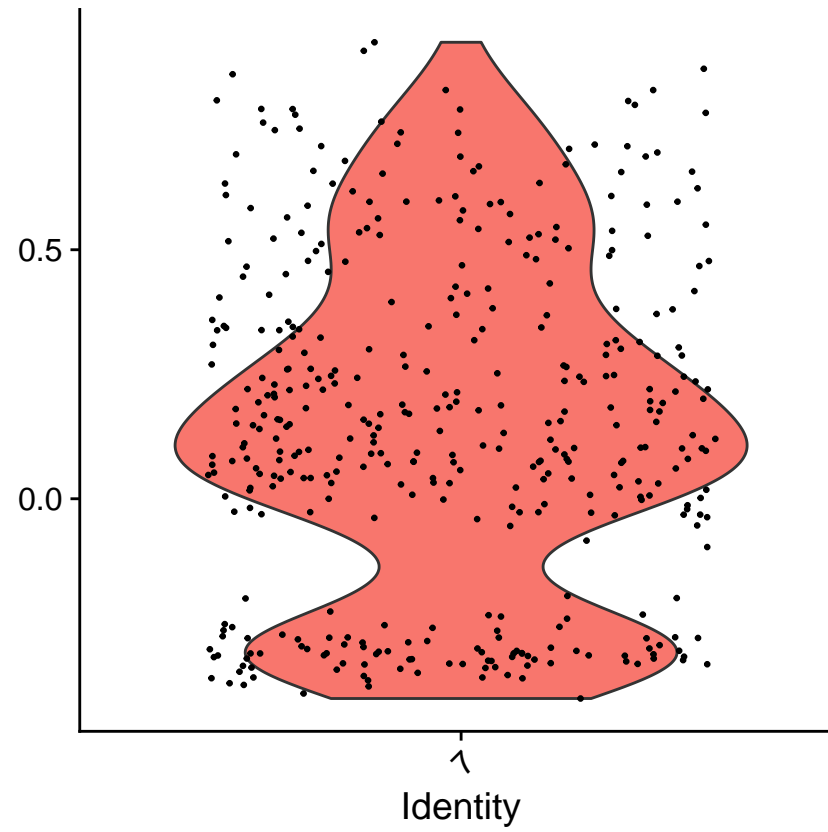
| | Stage | Cell_Count |
|---|--------------|-------------------|
| 1 | CMP_score1 | 3 |
| 2 | Diff_score1 | 17 |
| 3 | HSC_score1 | 220 |
| 4 | MPP_score1 | 167 |

Cluster 7 – Score Violin Plot

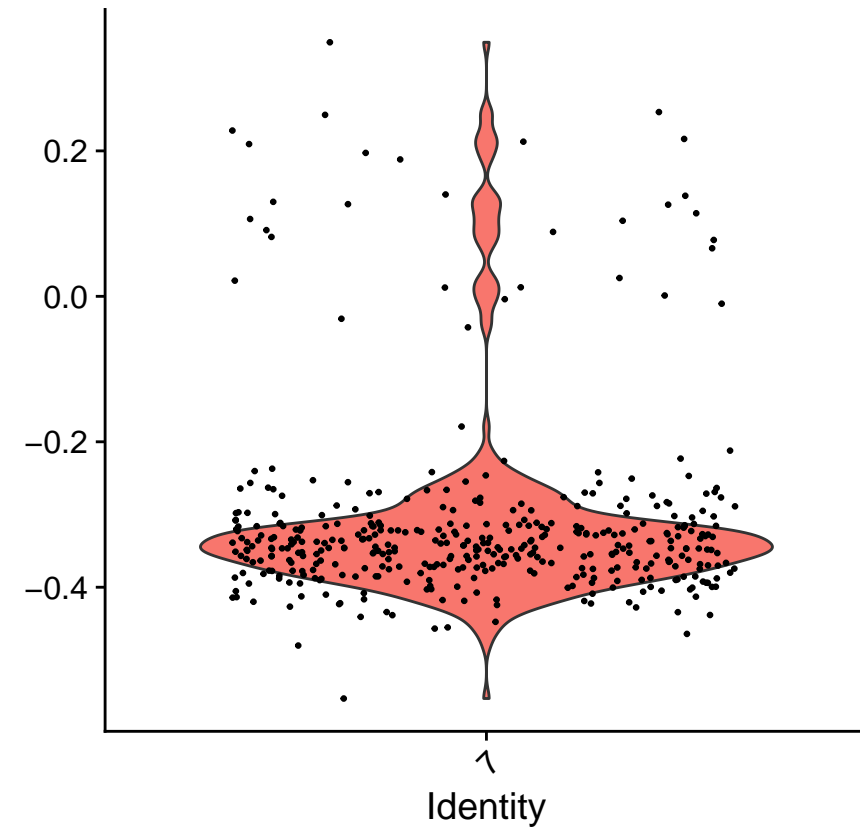
HSC_score1



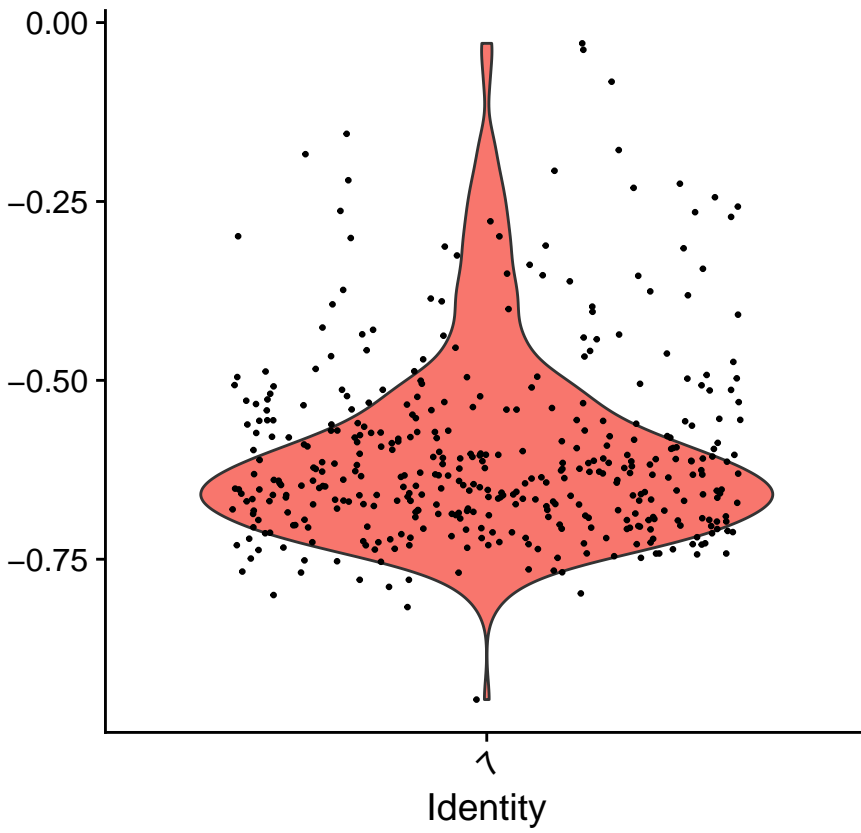
MPP_score1



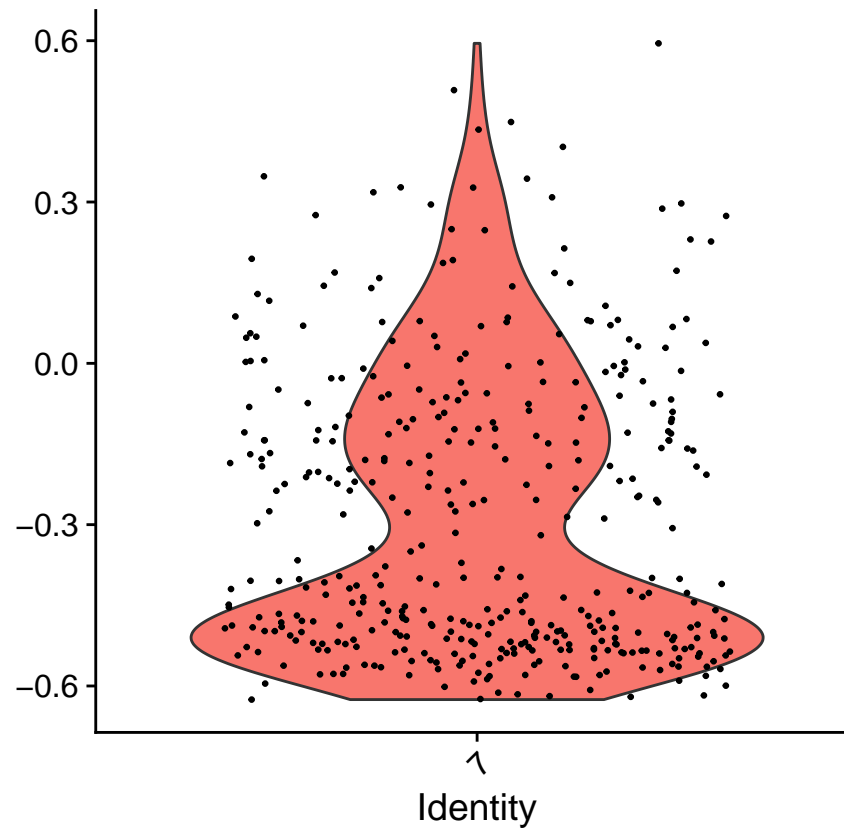
CMP_score1



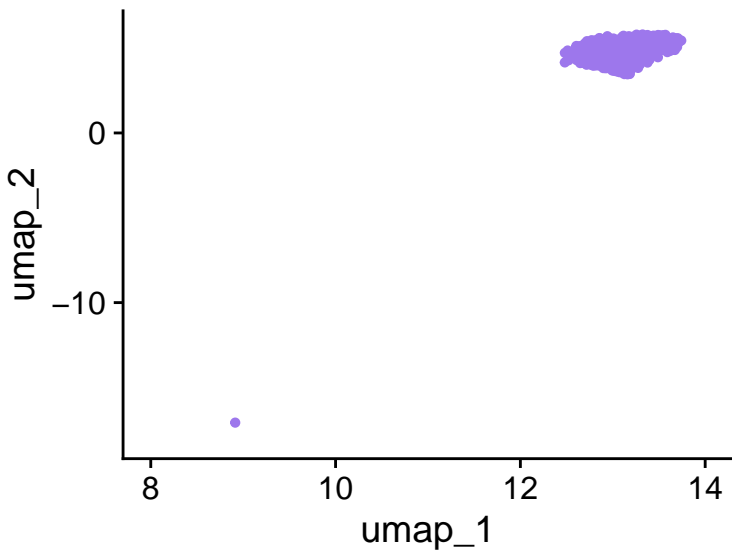
GMP_score1



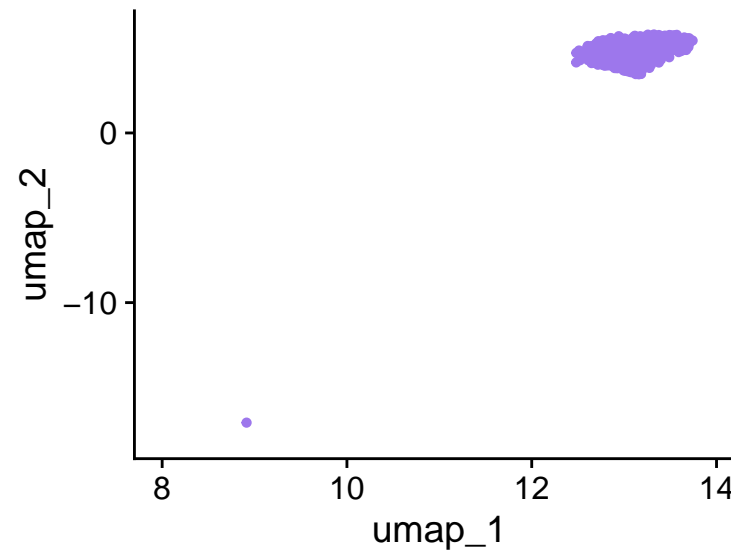
Diff_score1



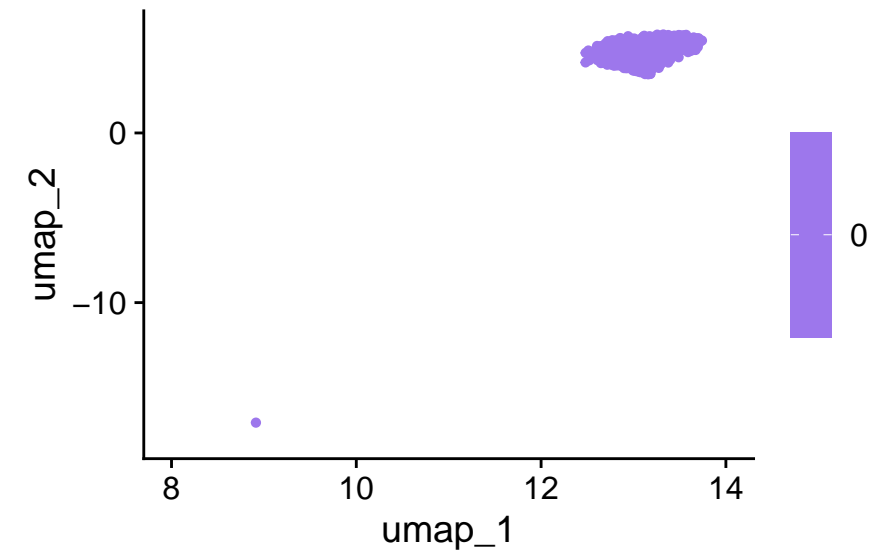
HSC: CD34 (0)



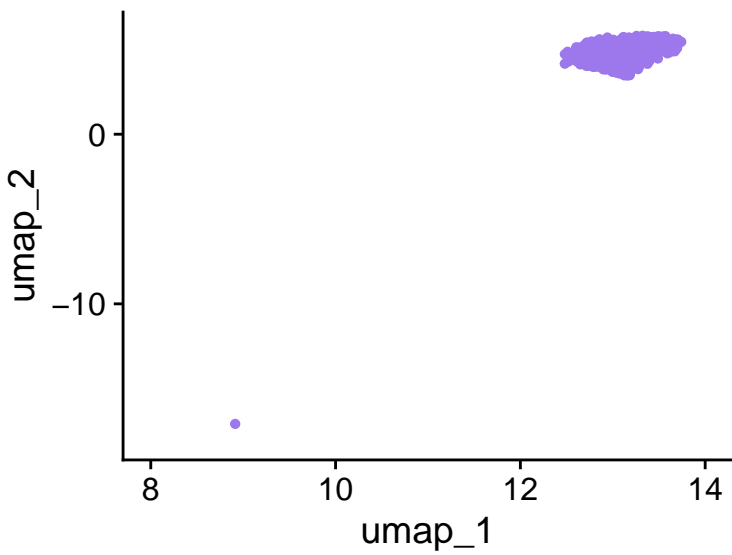
HSC: AVP (0)



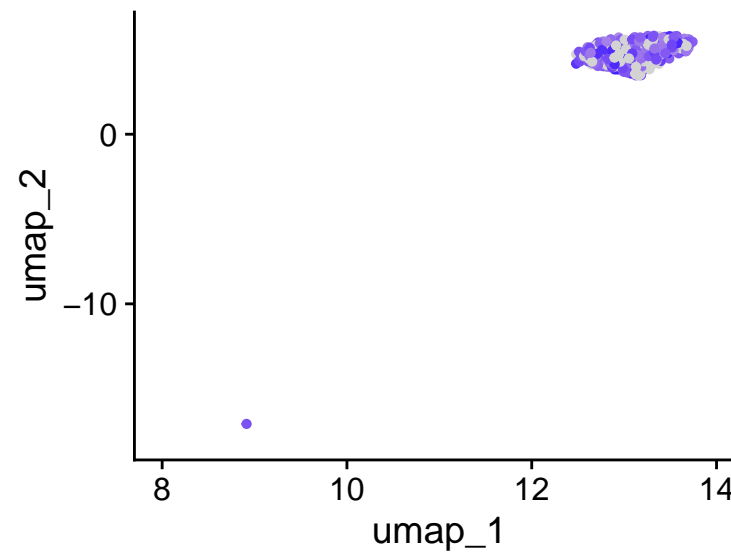
HSC: PROM1 (0)



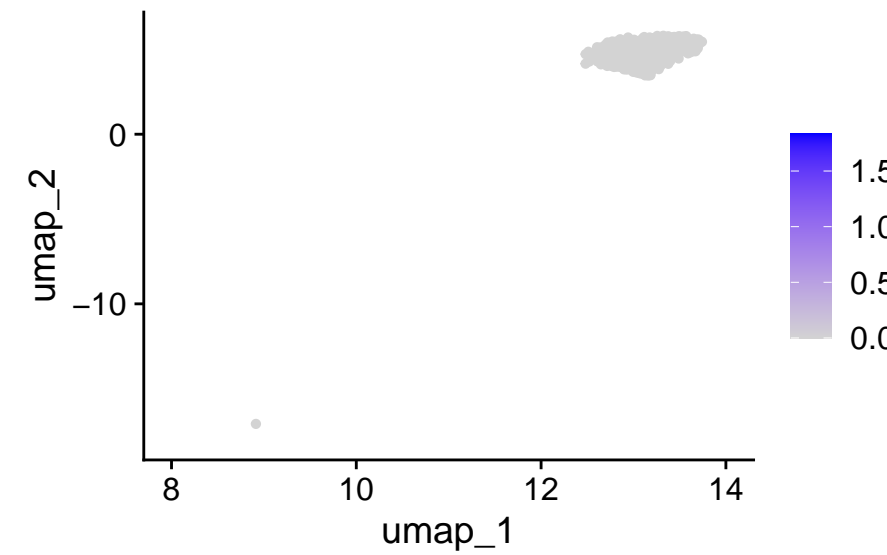
HSC: MEIS1 (0)



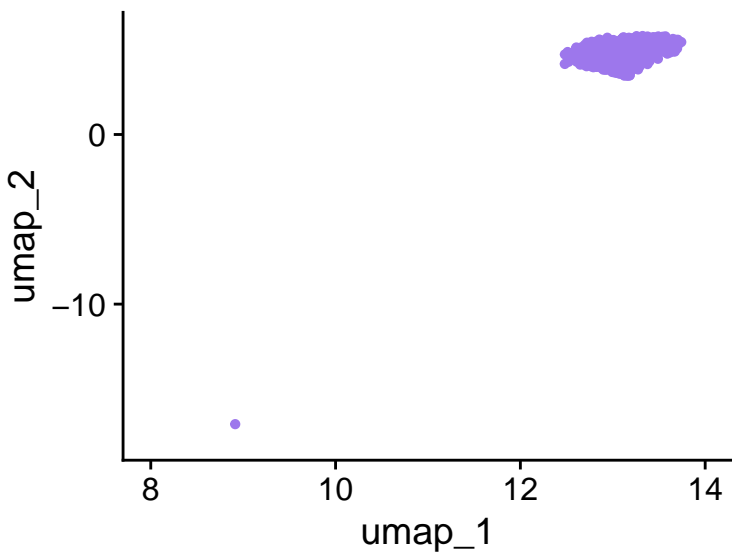
HSC: GATA2



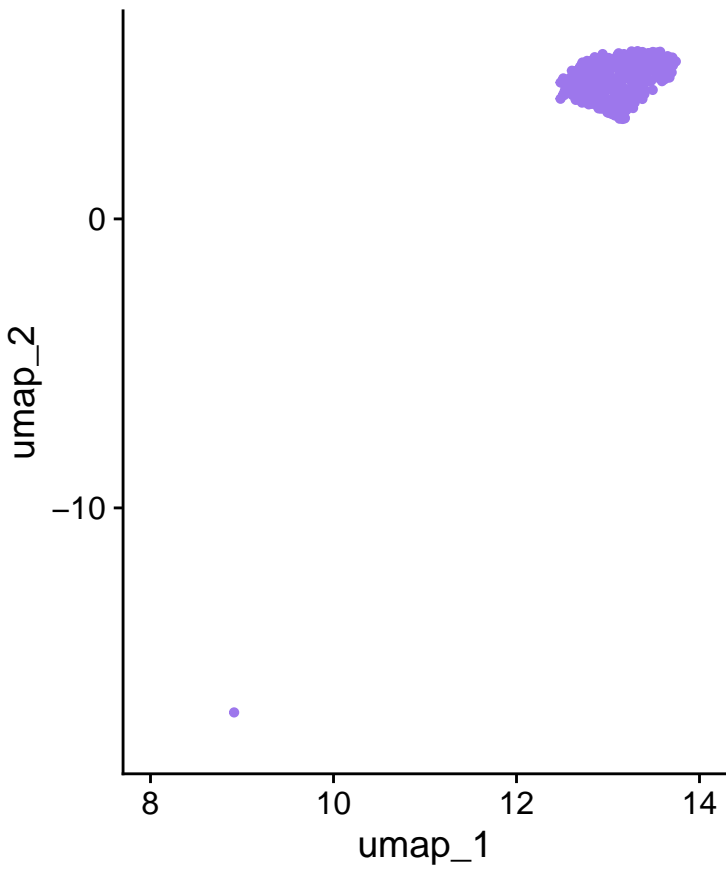
HSC: HOXA9



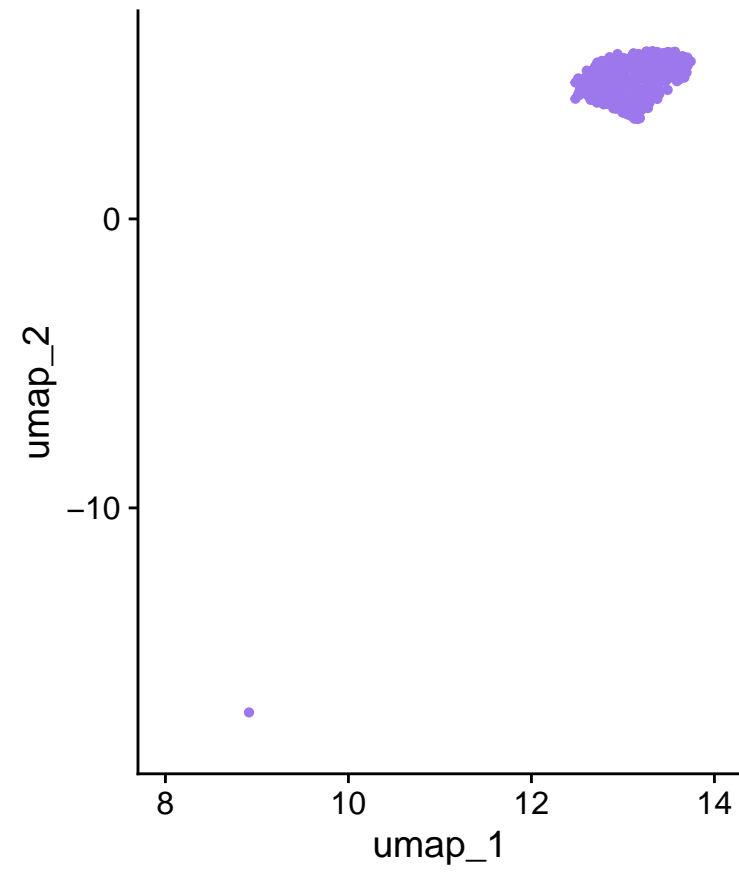
HSC: FLT3 (0)



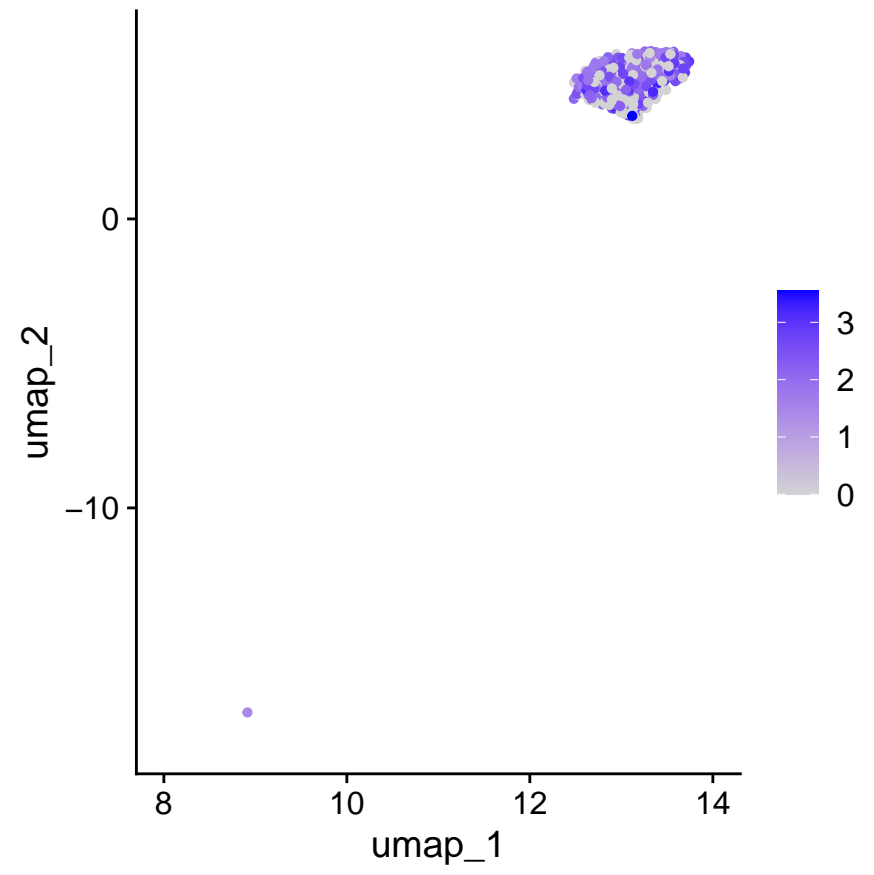
MPP: CD34 (0)



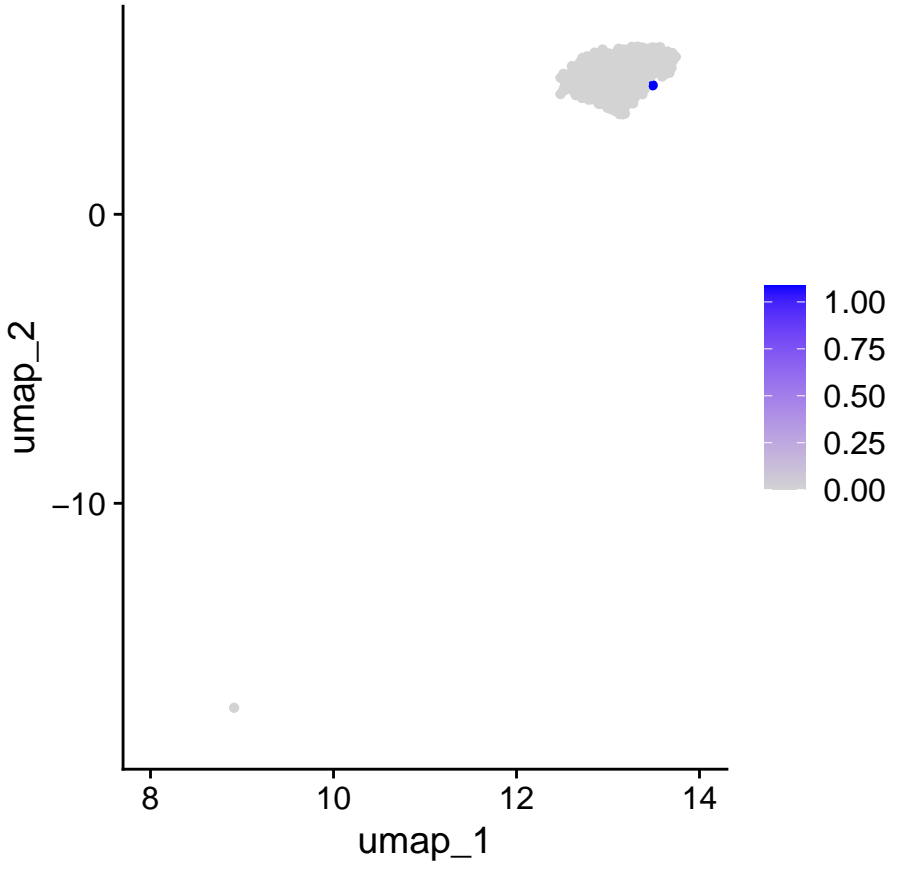
MPP: FLT3 (0)



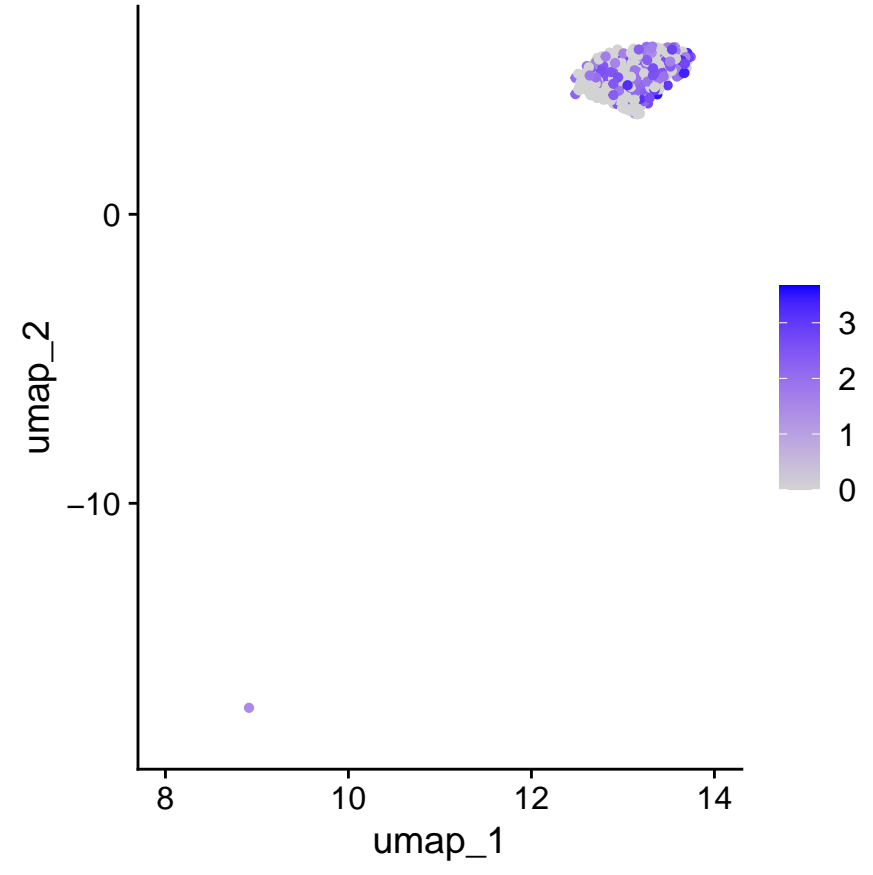
MPP: KIT



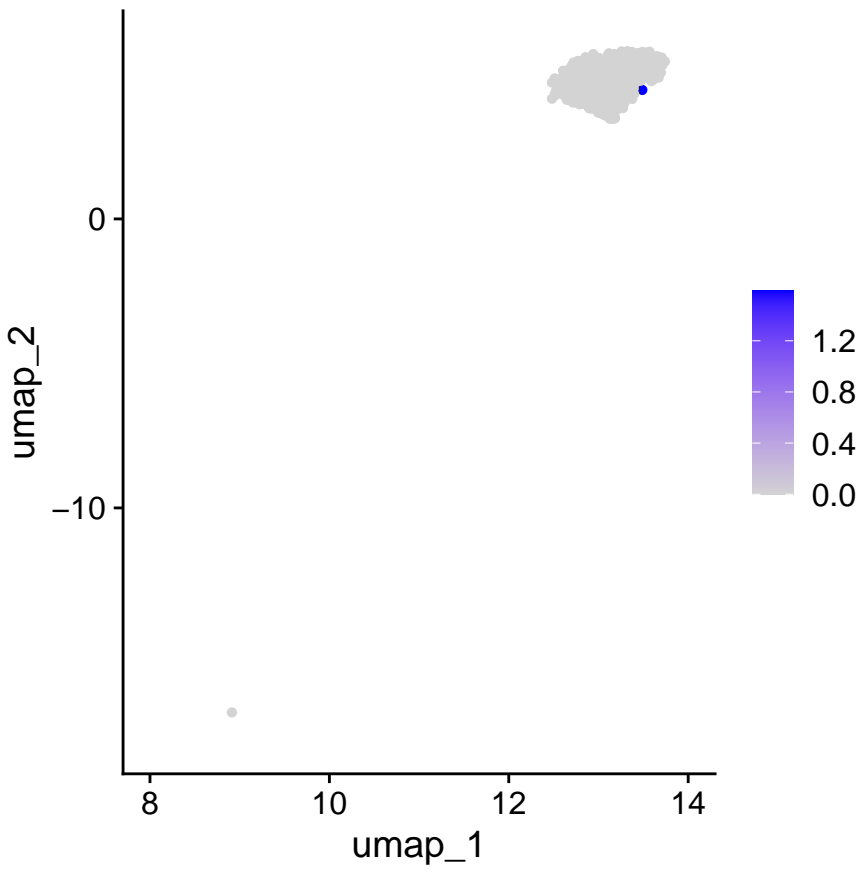
MPP: CD38



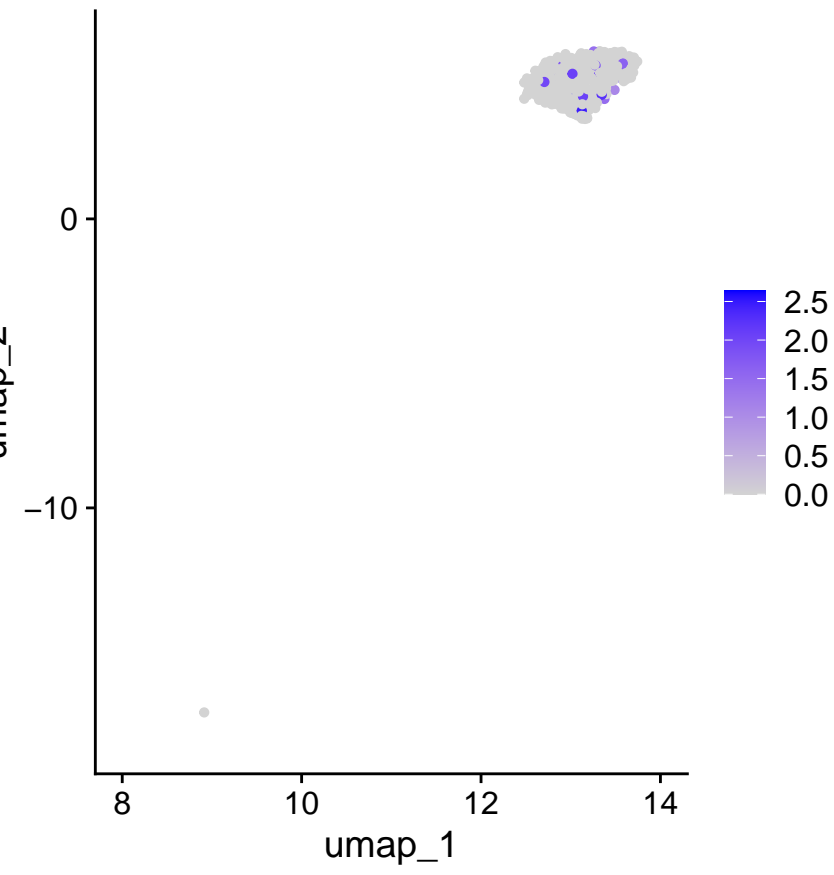
MPP: SOX4



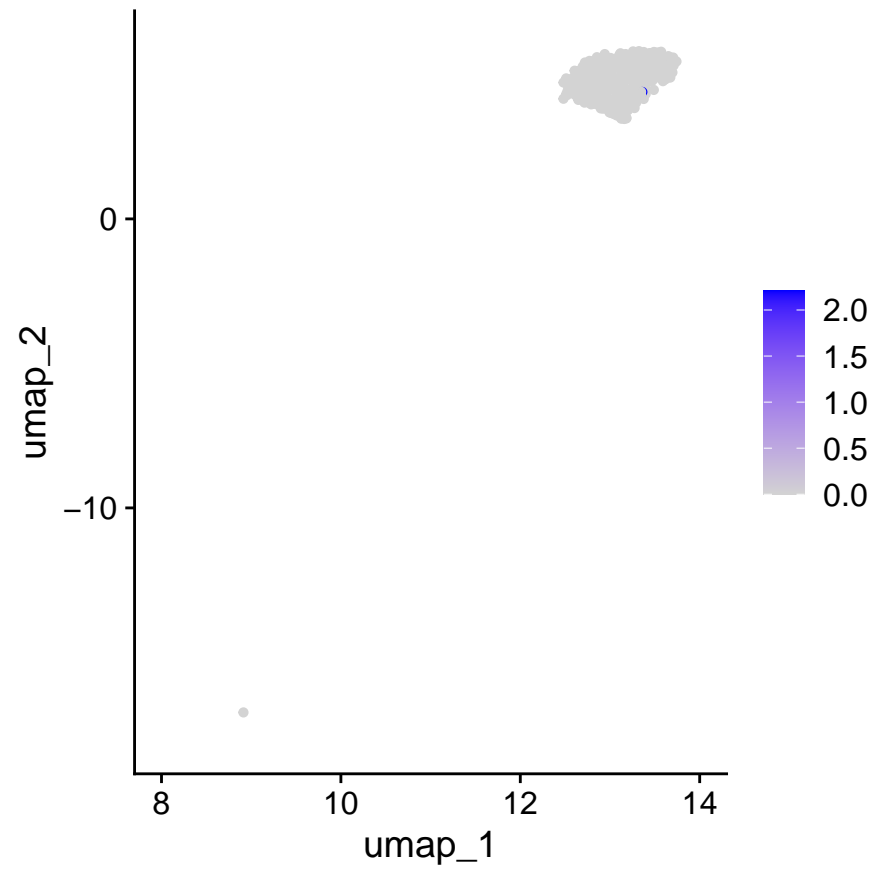
CMP: IL3RA



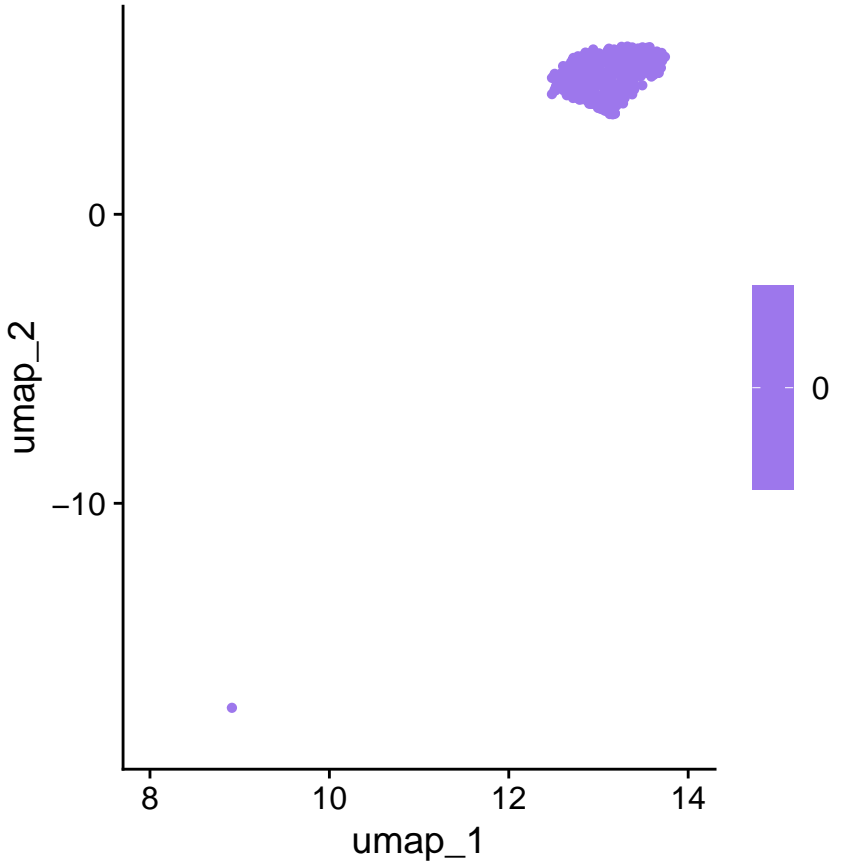
CMP: GATA1



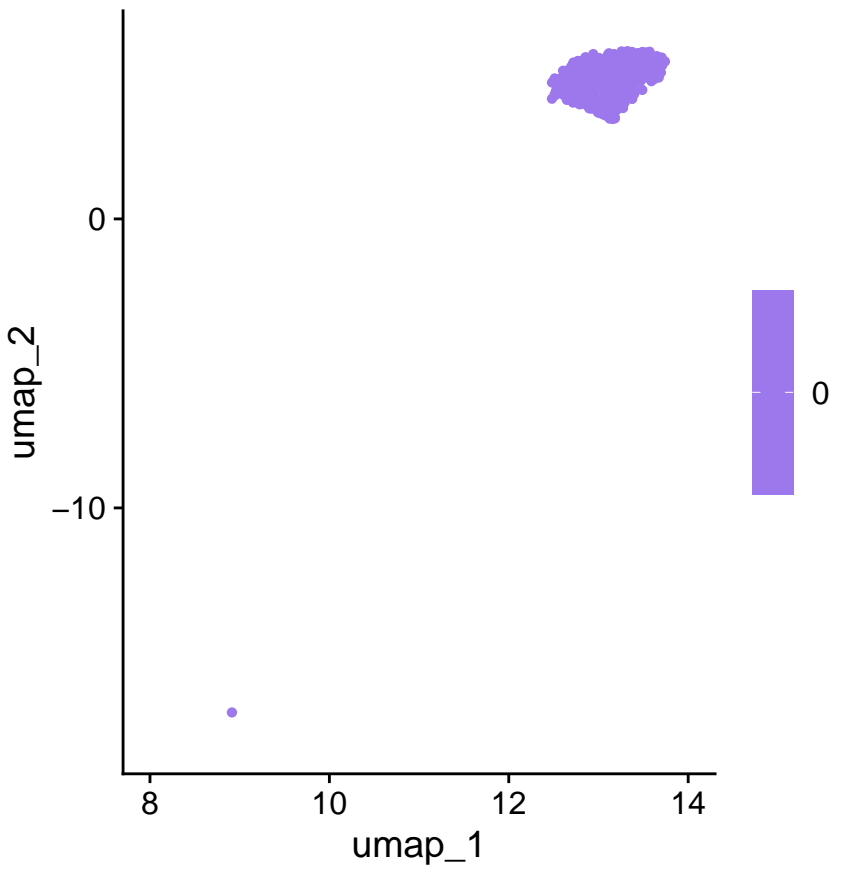
CMP: MPO



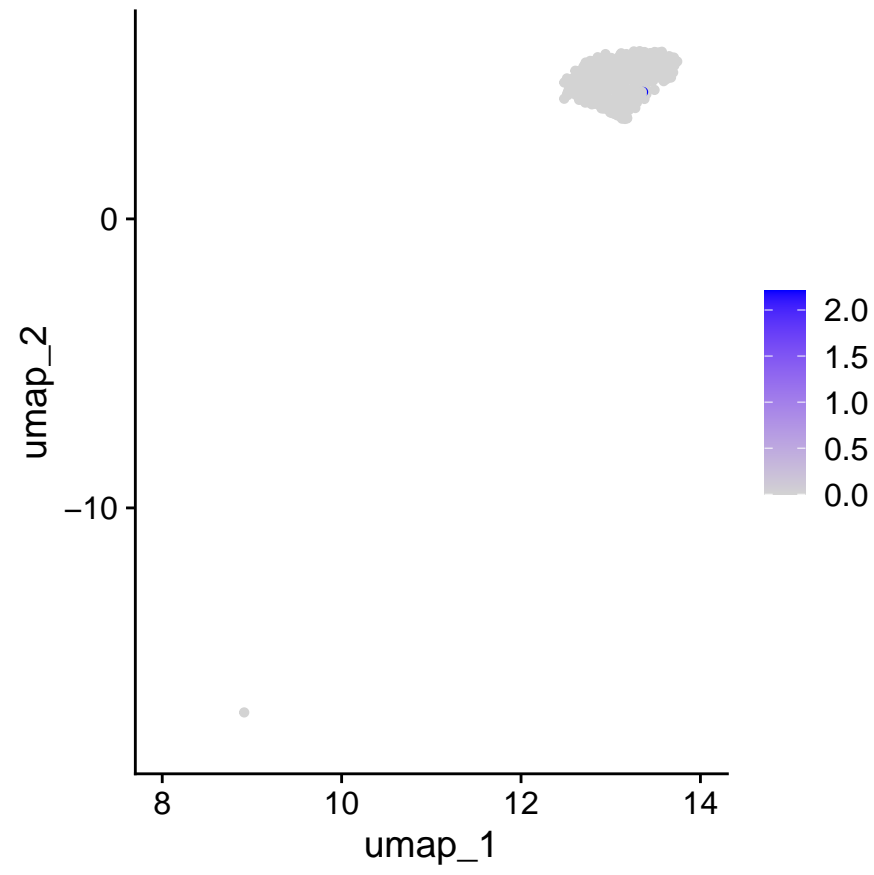
CMP: CEBPA (0)



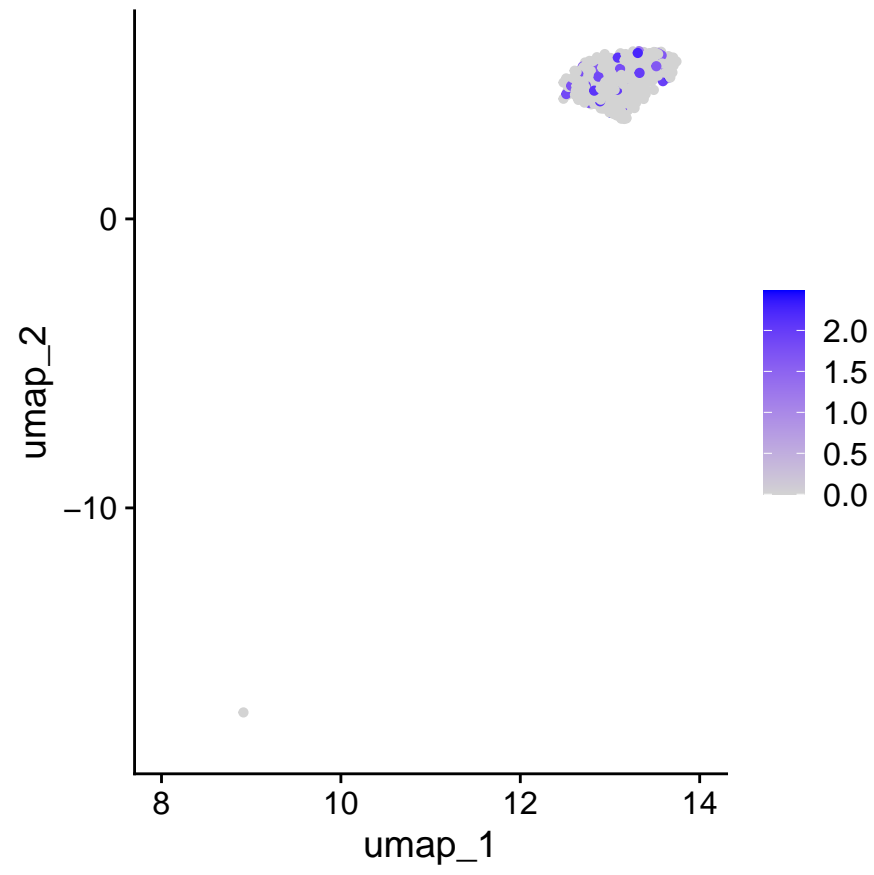
GMP: CEBPA (0)



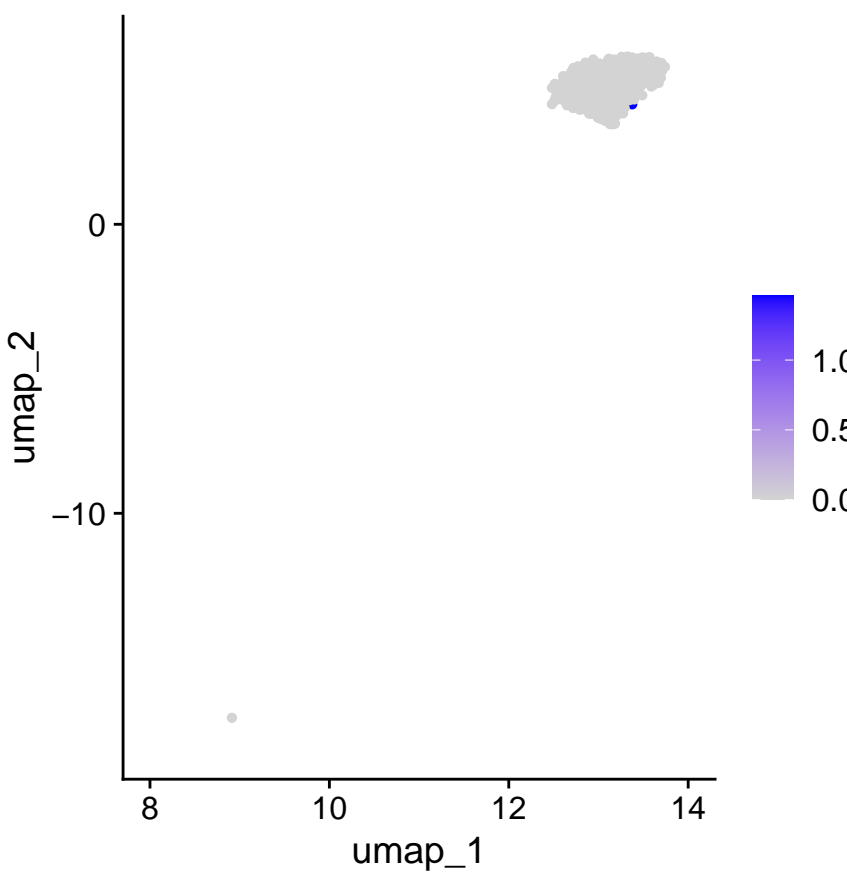
GMP: MPO



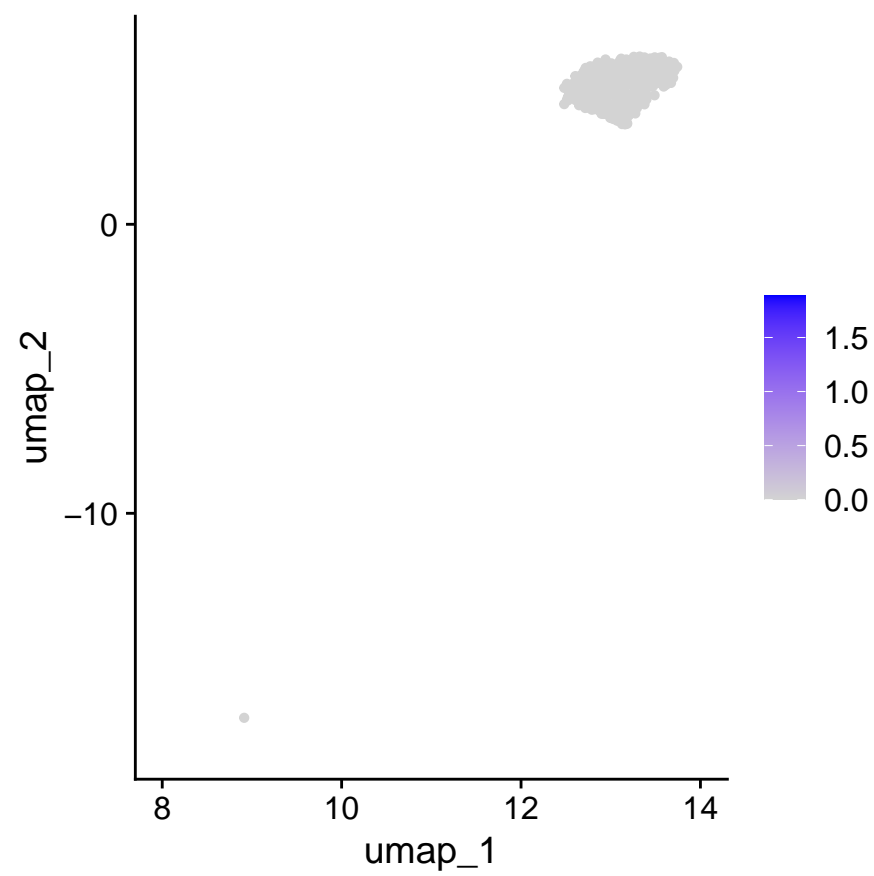
GMP: ITGAM



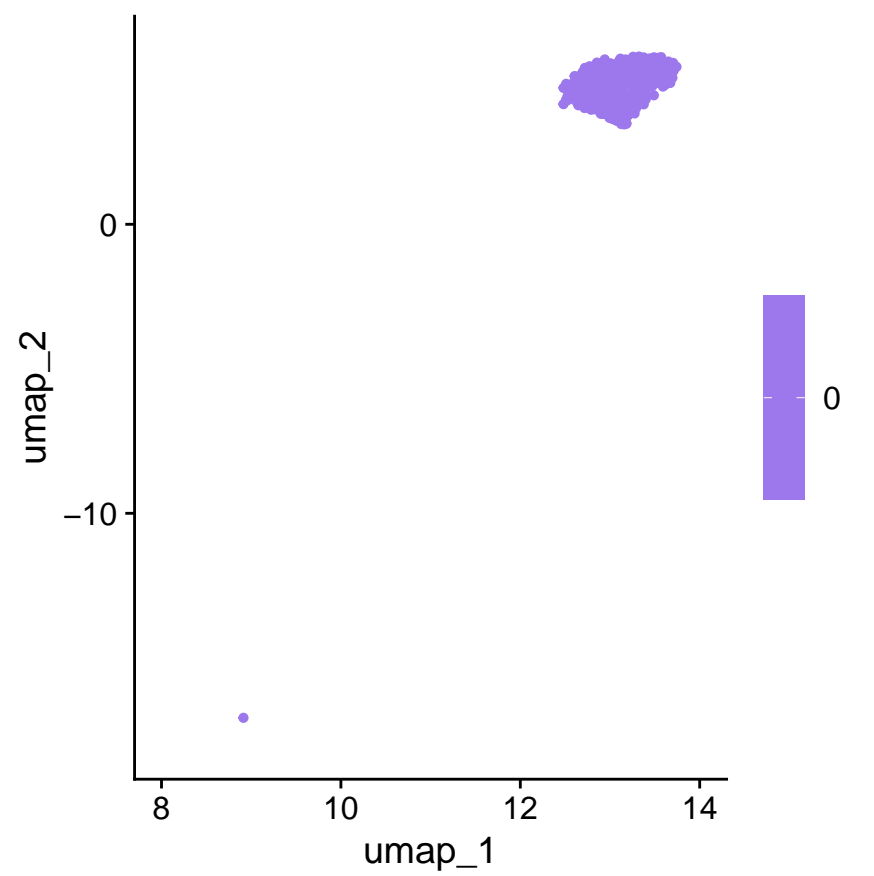
GMP: CSF3R



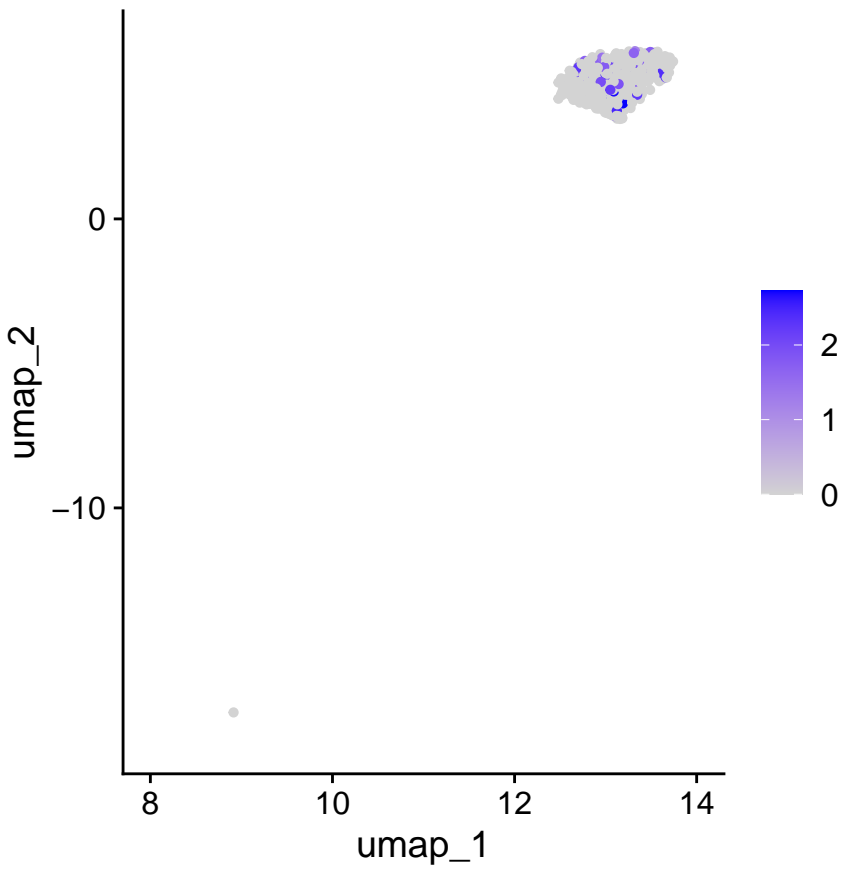
GMP: ELANE



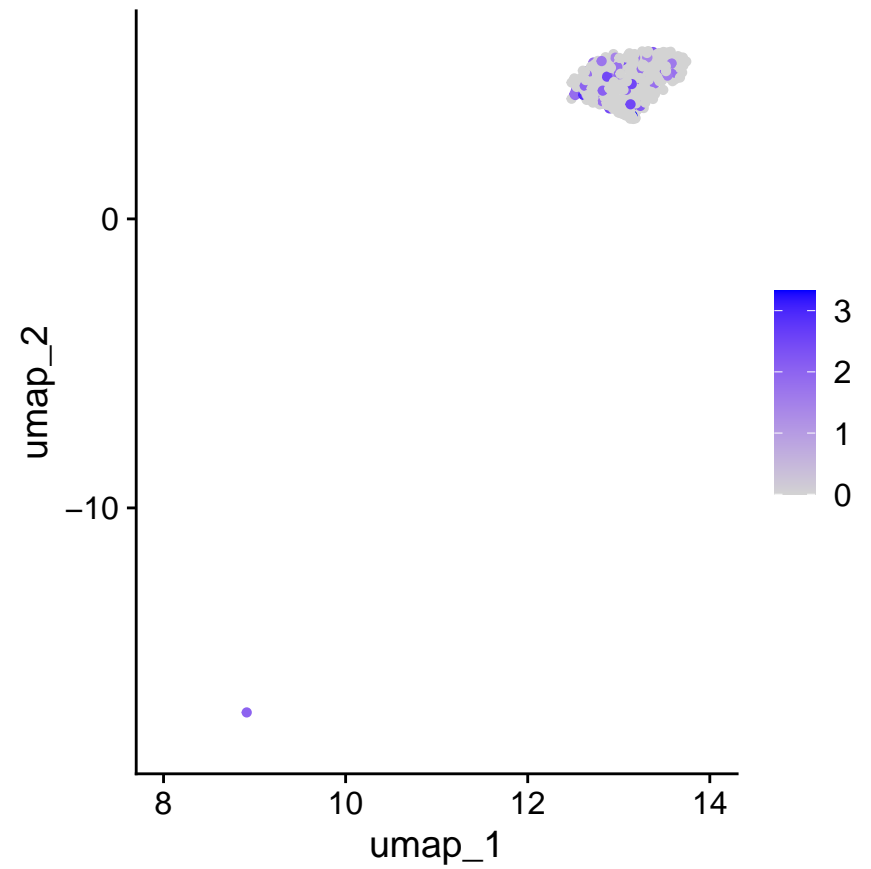
GMP: AZU1 (0)



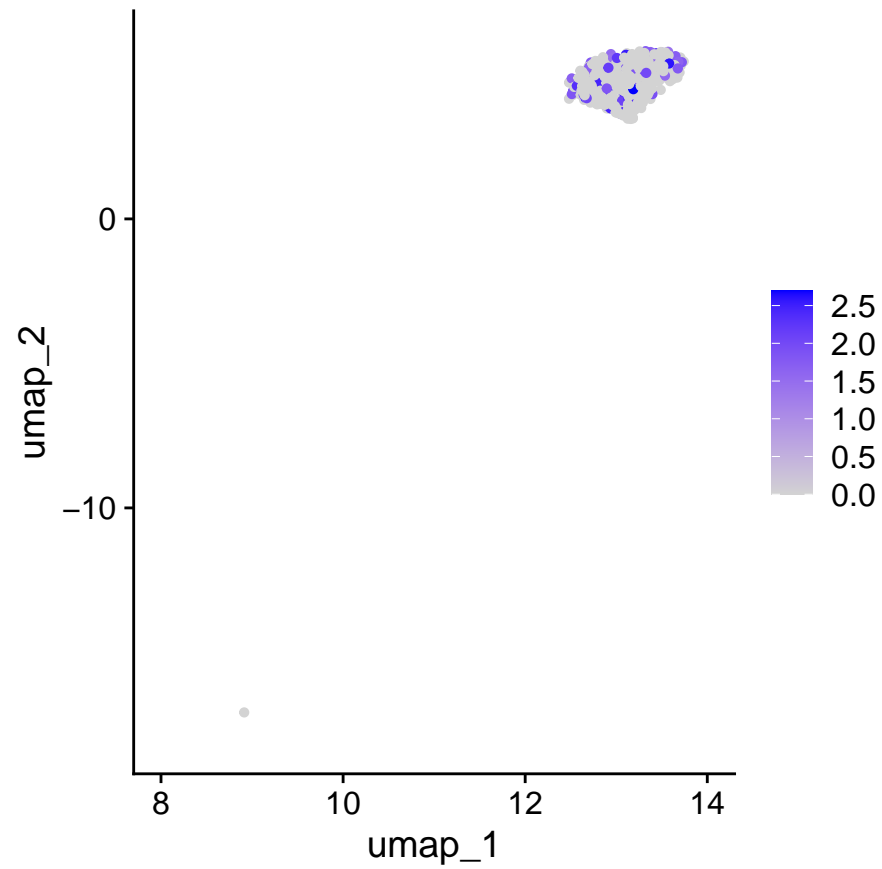
Diff: CD14



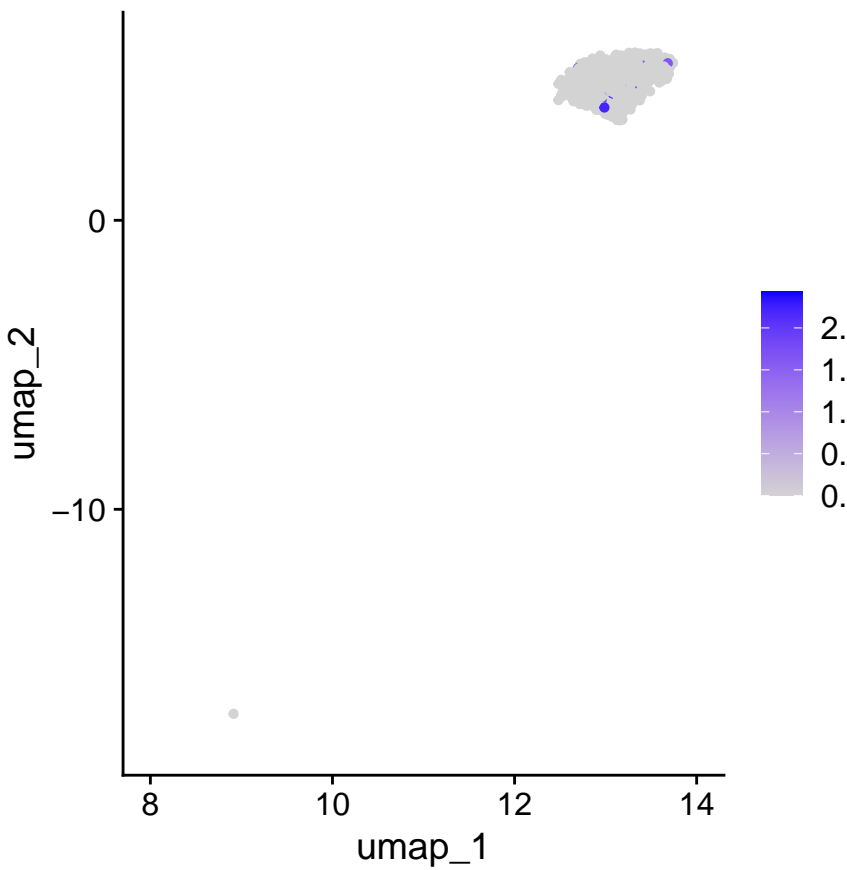
Diff: CD68



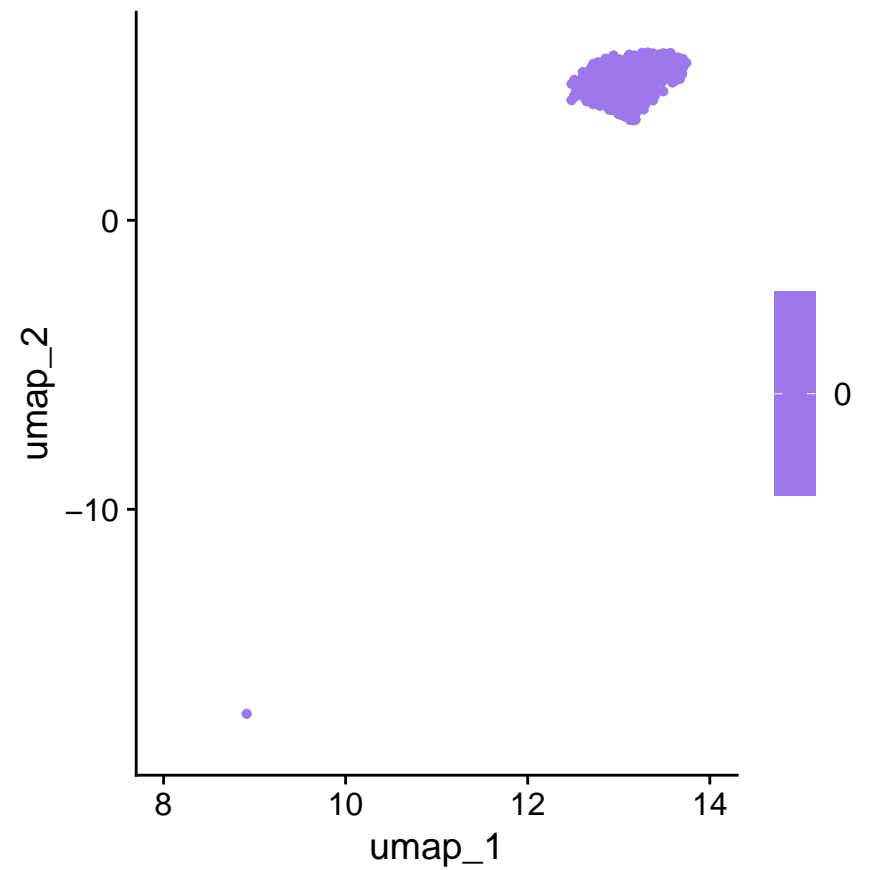
Diff: ITGAX



Diff: S100A9



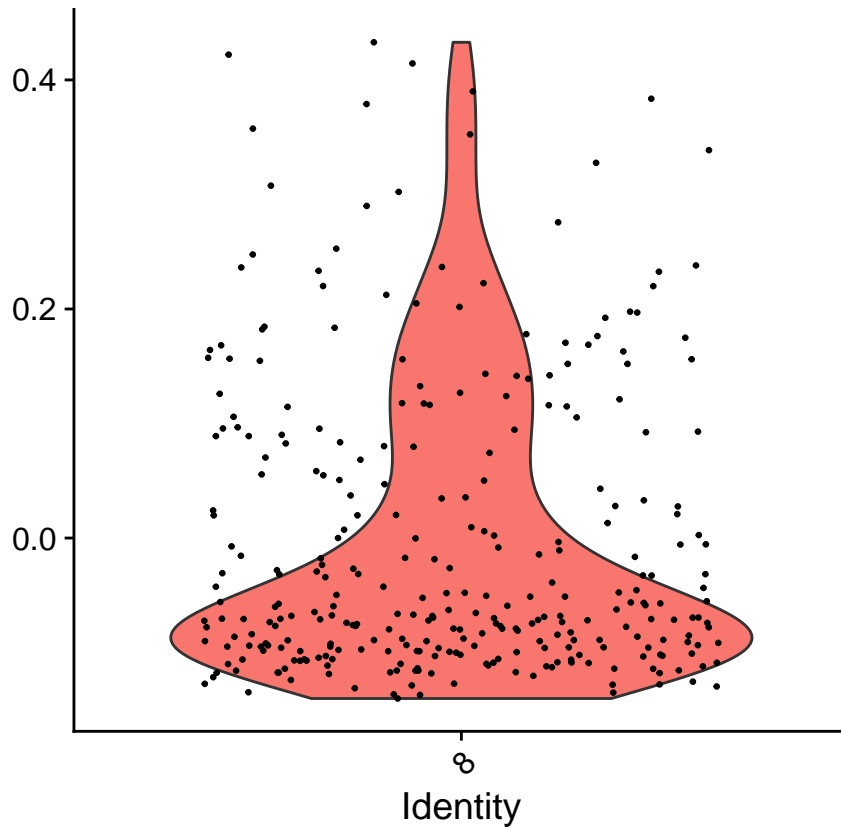
Diff: FCGR3A (0)



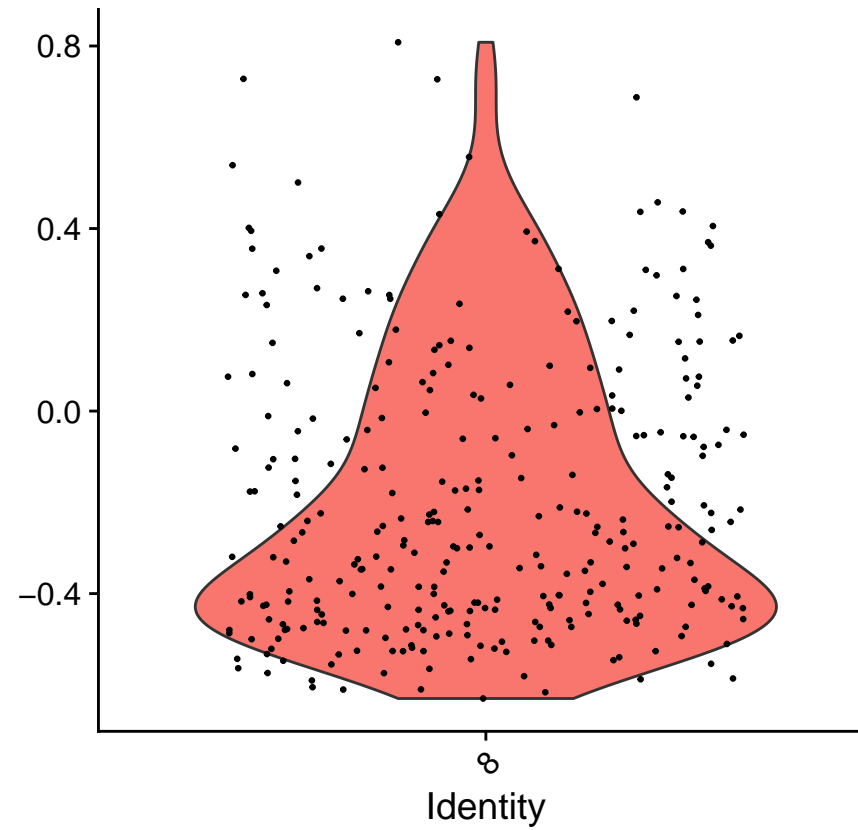
| | Stage | Cell_Count |
|---|--------------|-------------------|
| 1 | CMP_score1 | 148 |
| 2 | Diff_score1 | 96 |
| 3 | GMP_score1 | 34 |
| 4 | HSC_score1 | 10 |
| 5 | MPP_score1 | 19 |

Cluster 8 – Score Violin Plot

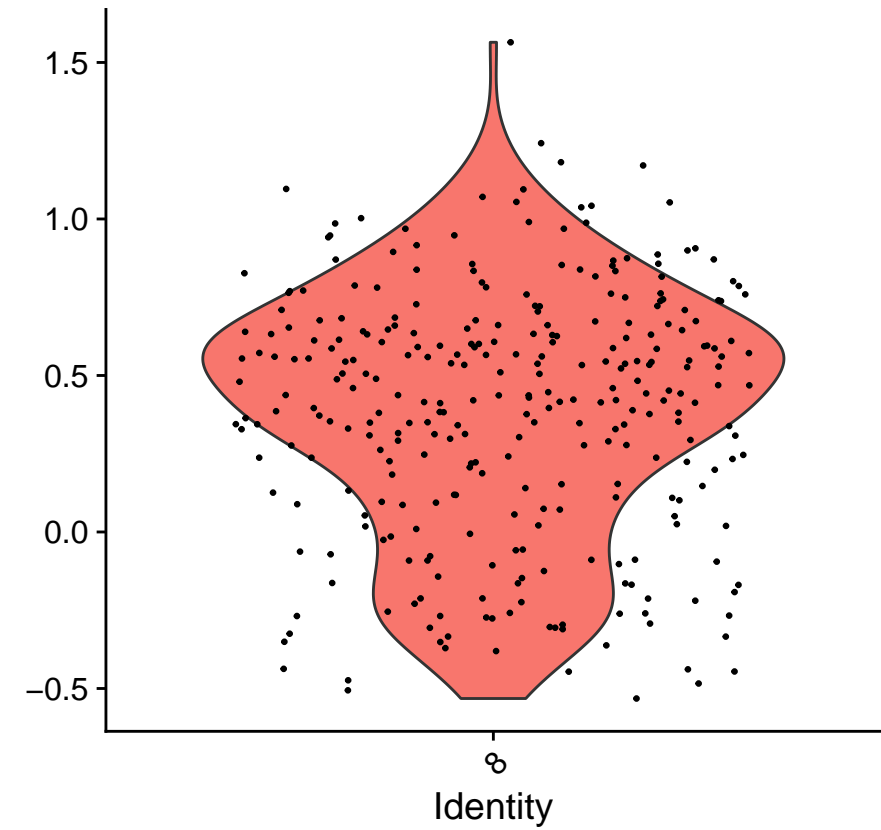
HSC_score1



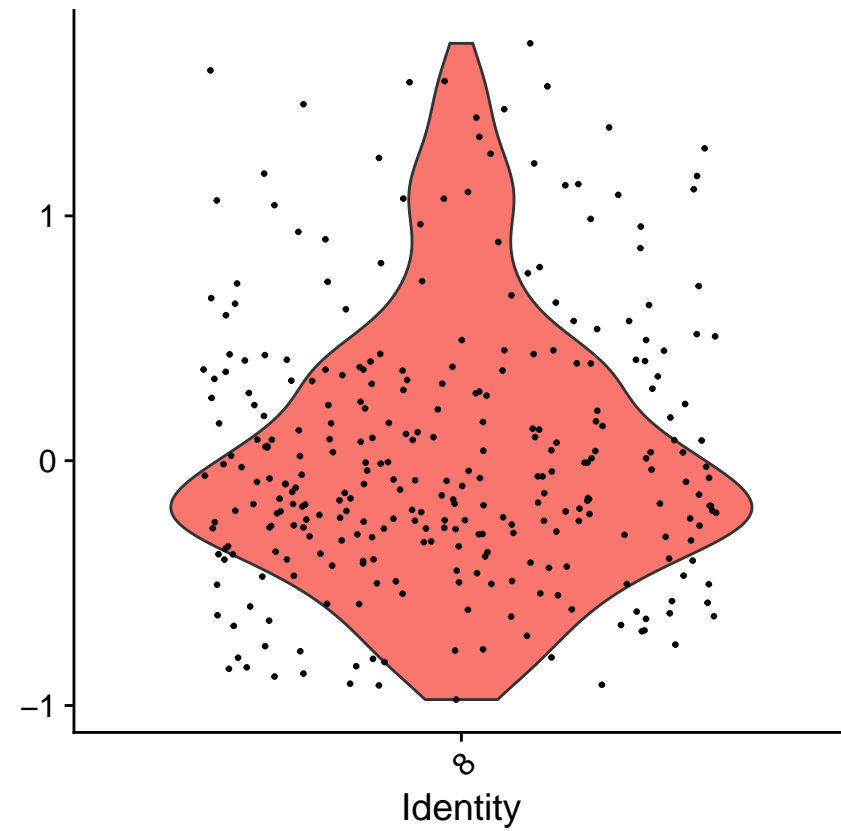
MPP_score1



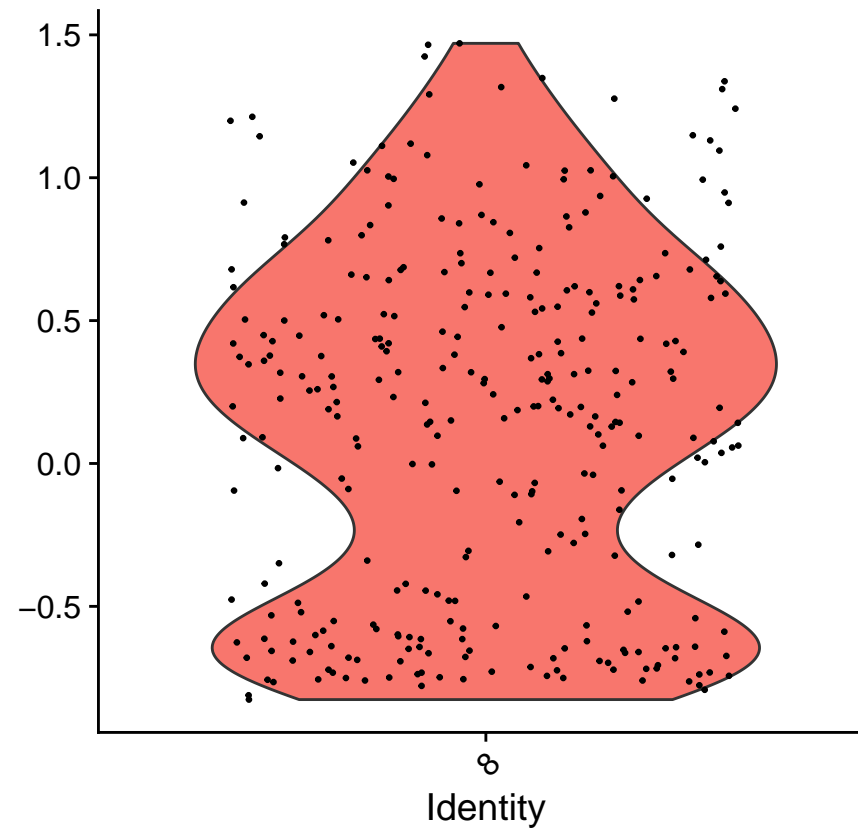
CMP_score1



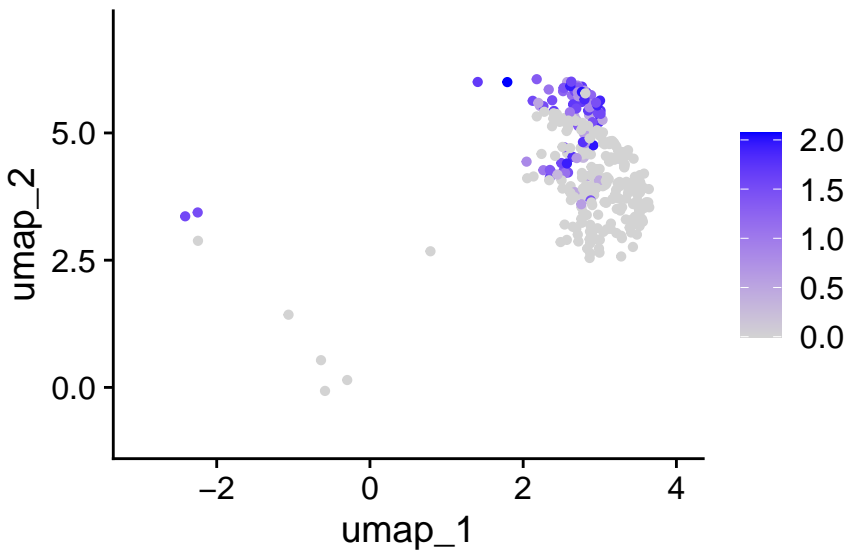
GMP_score1



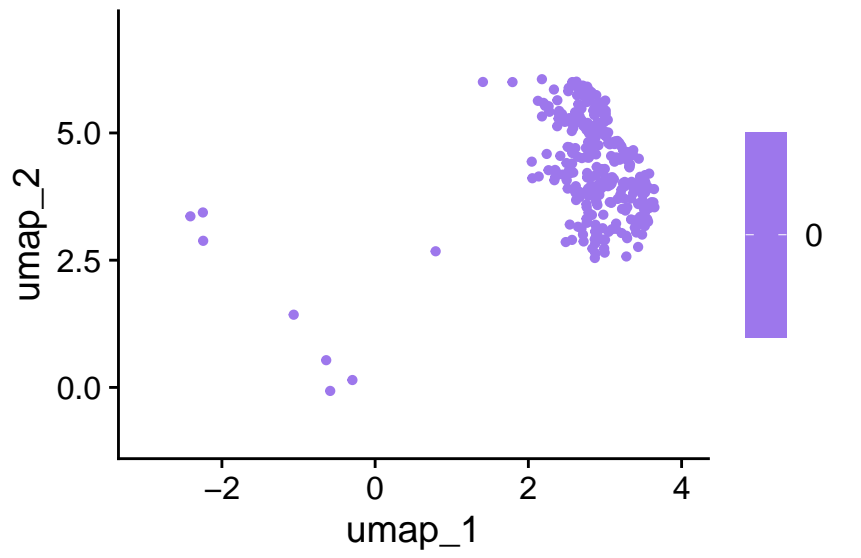
Diff_score1



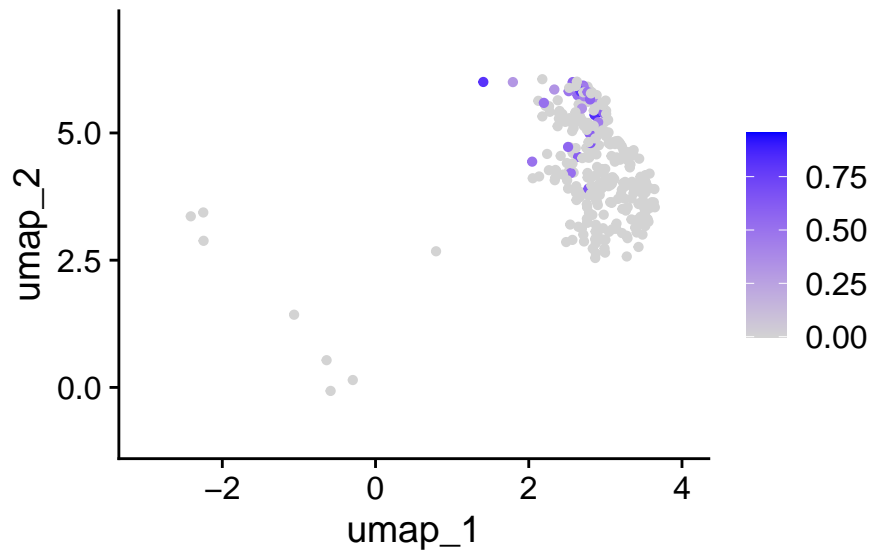
HSC: CD34



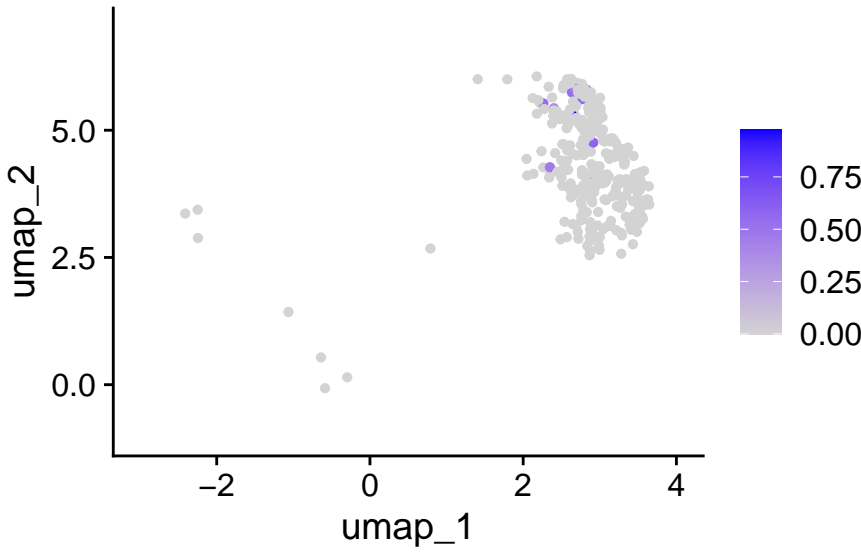
HSC: AVP (0)



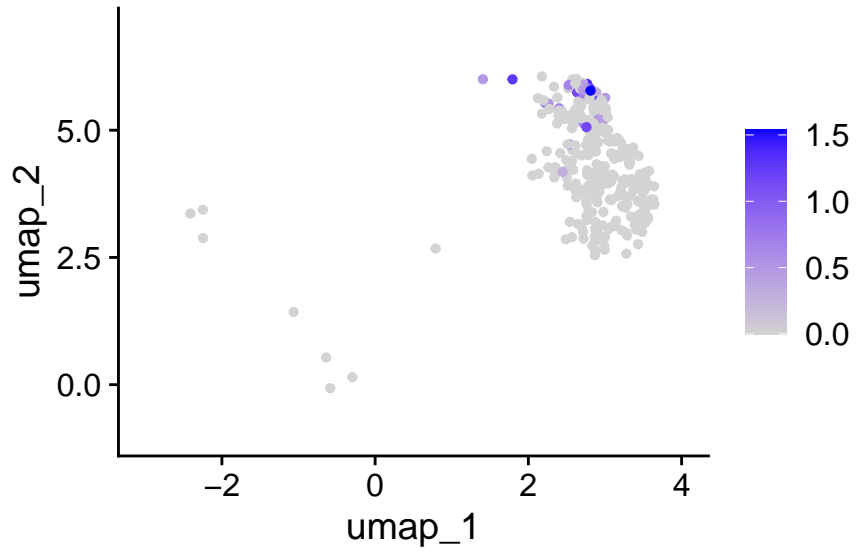
HSC: PROM1



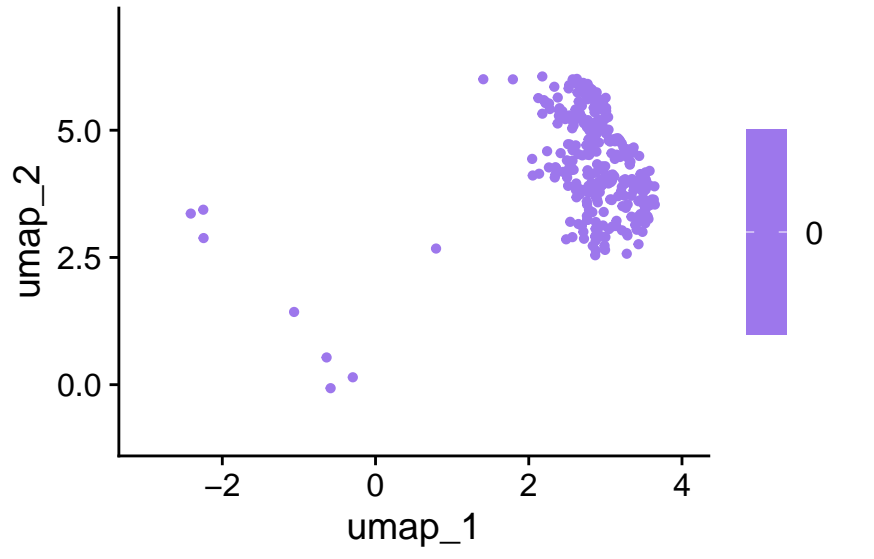
HSC: MEIS1



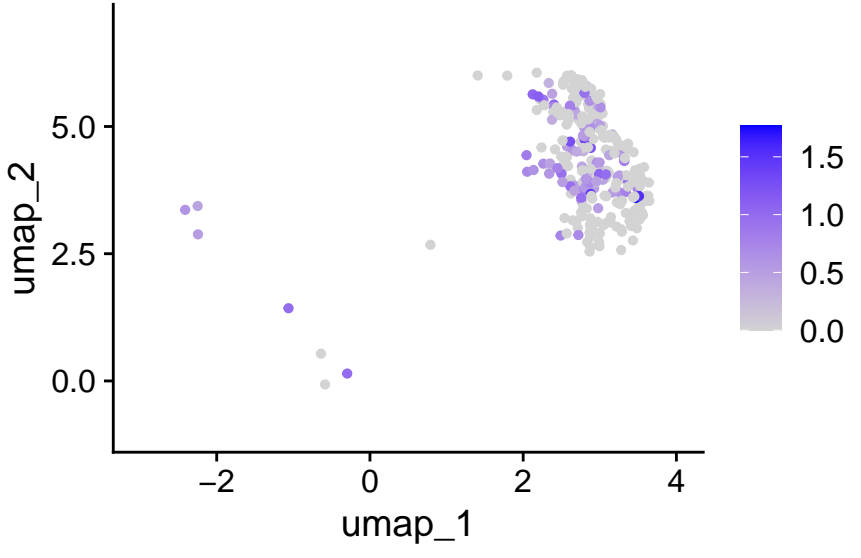
HSC: GATA2



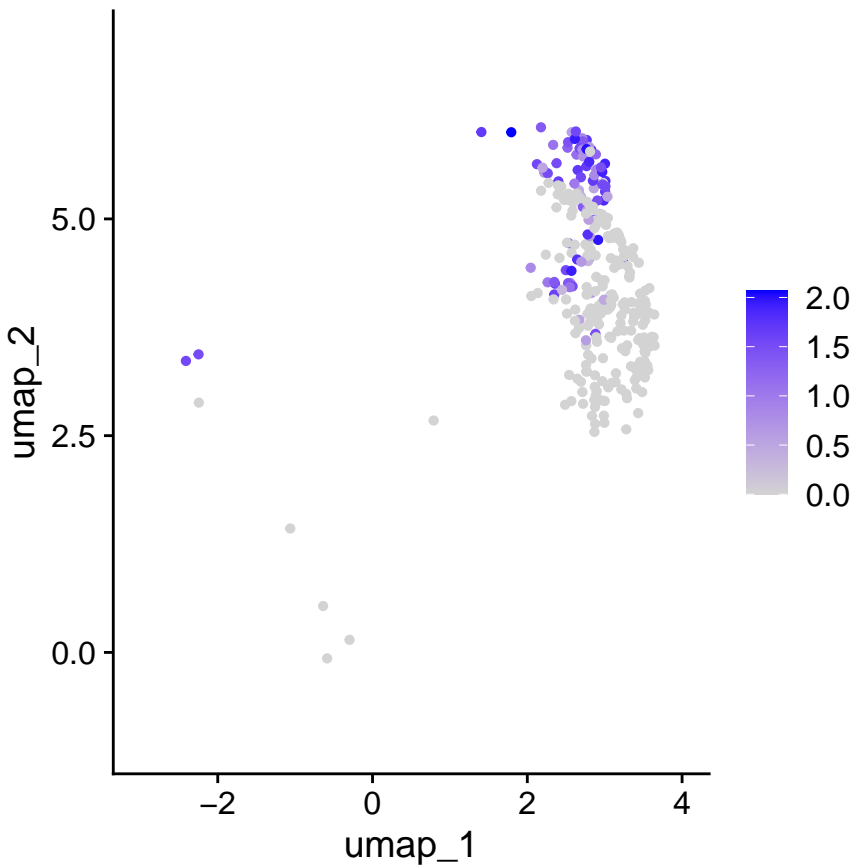
HSC: HOXA9 (0)



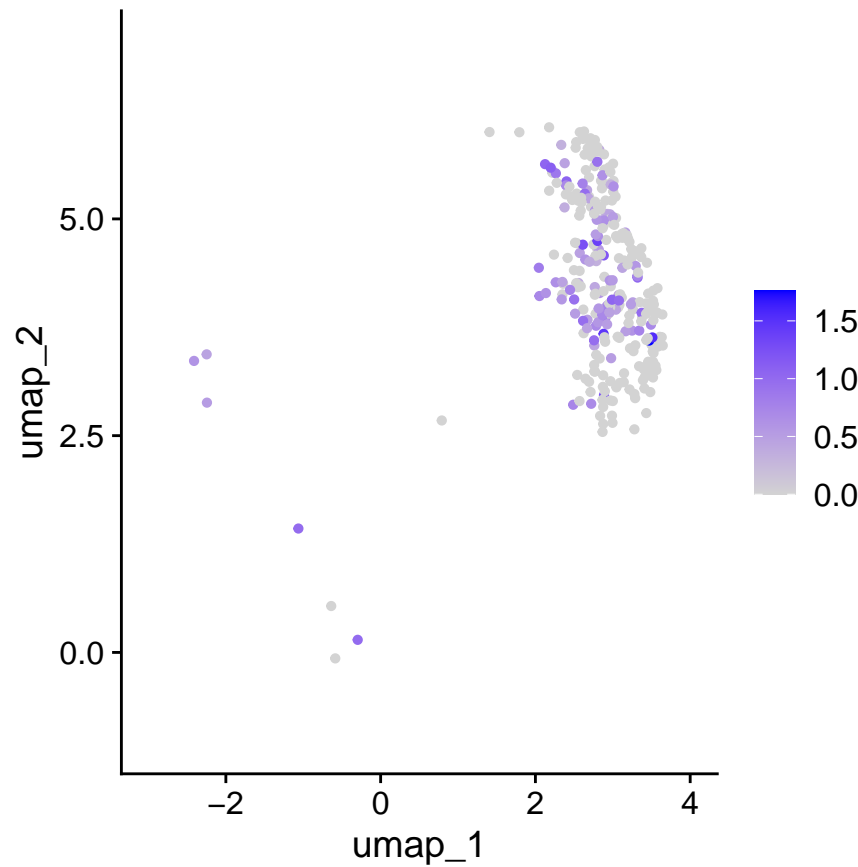
HSC: FLT3



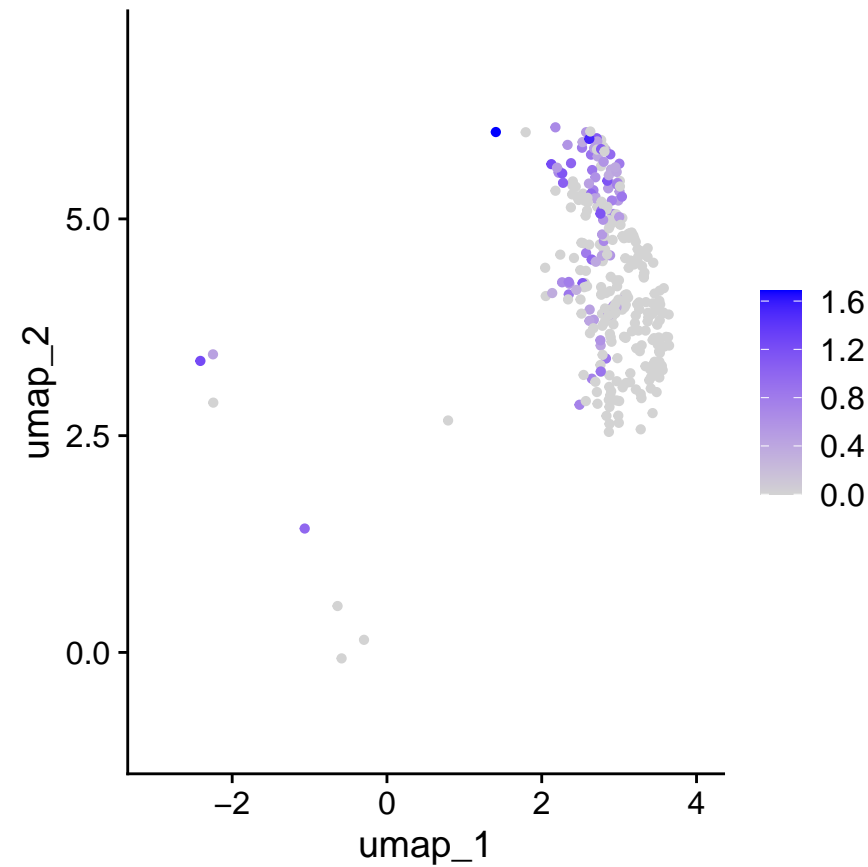
MPP: CD34



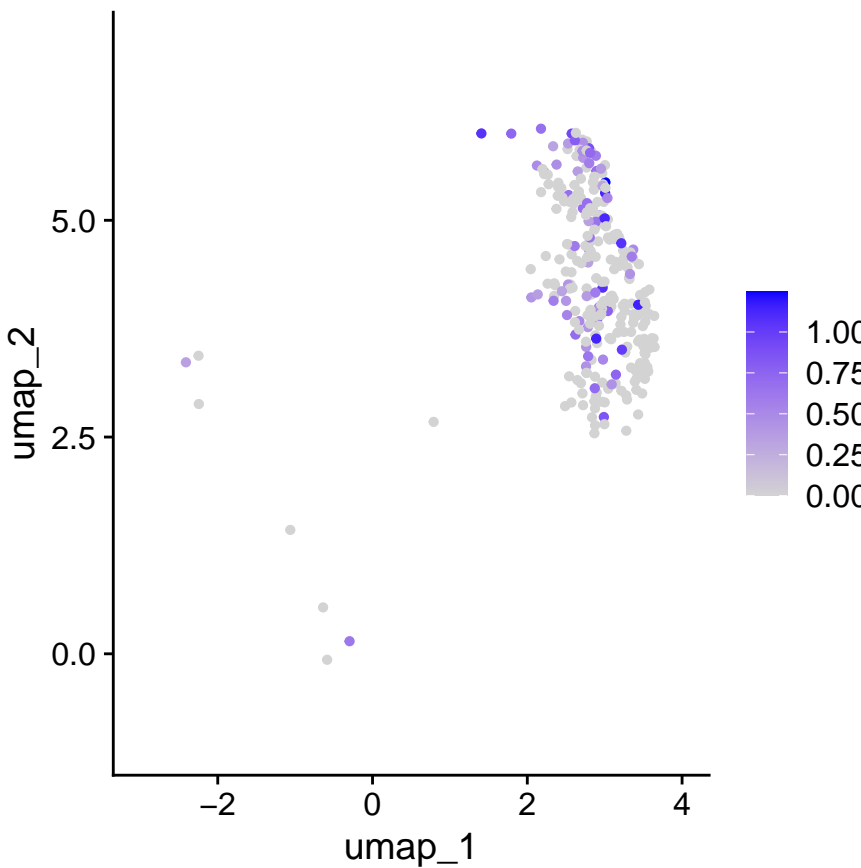
MPP: FLT3



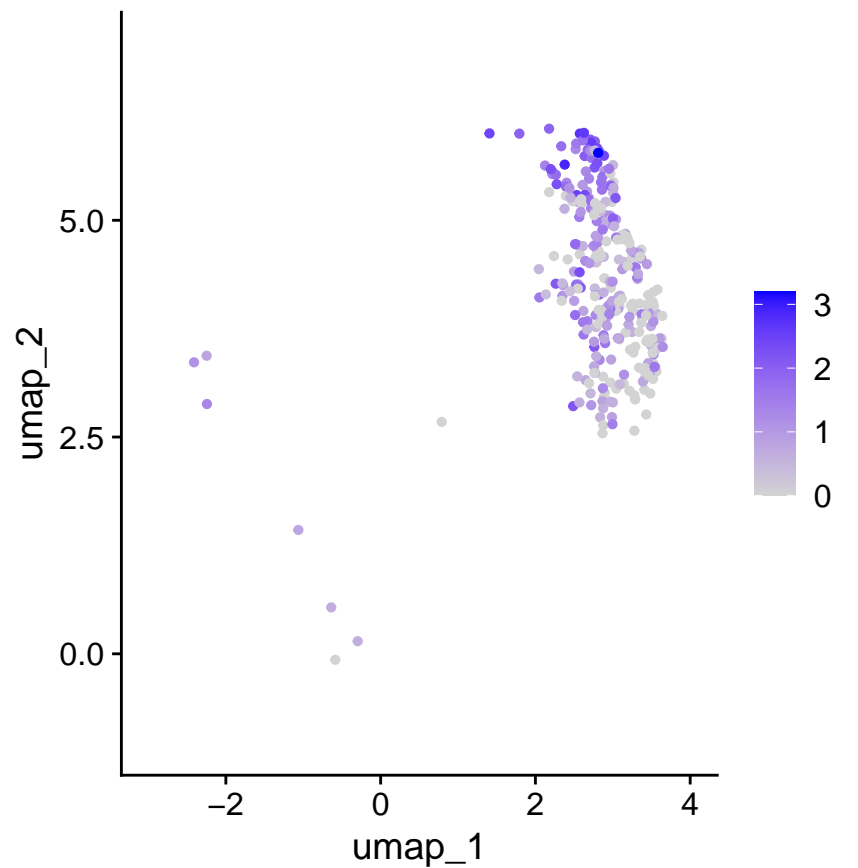
MPP: KIT



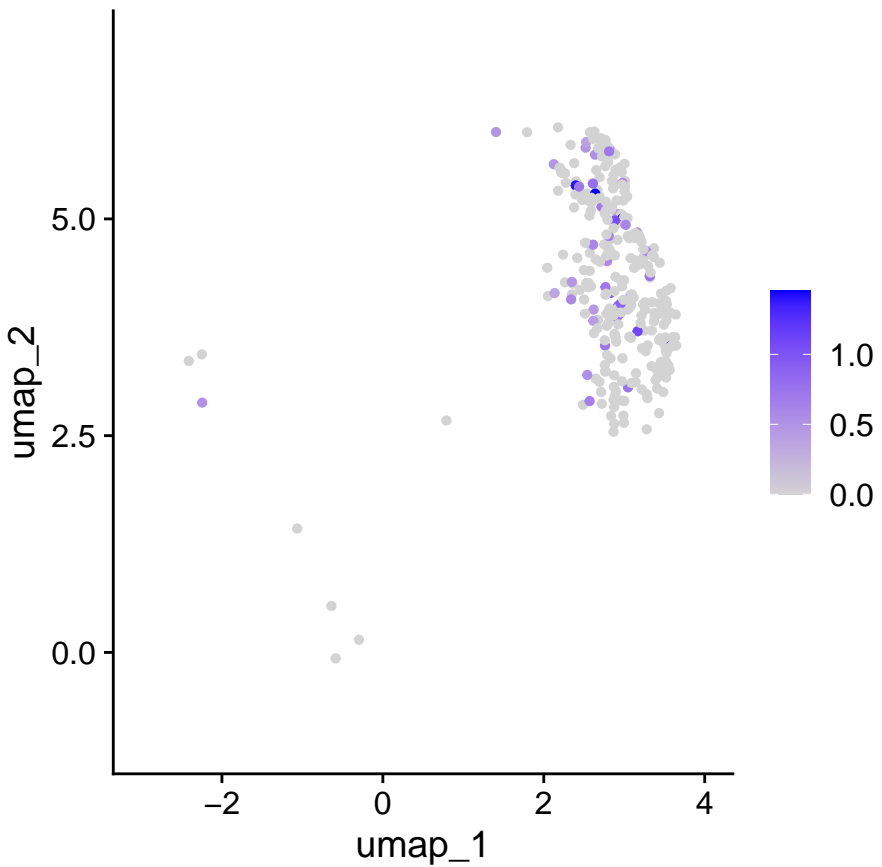
MPP: CD38



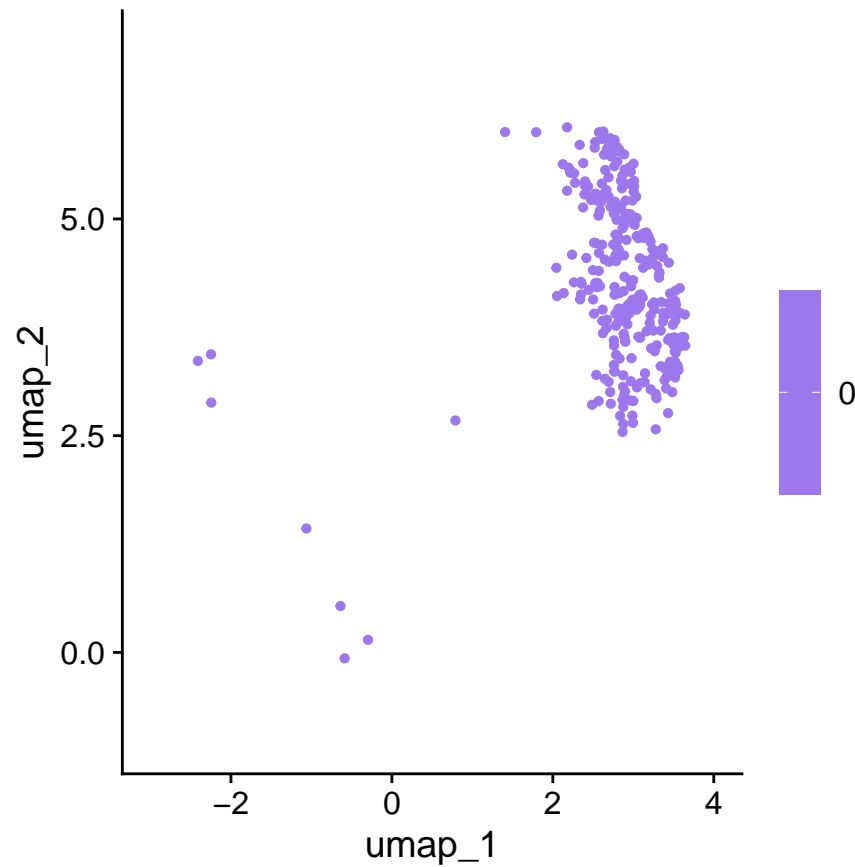
MPP: SOX4



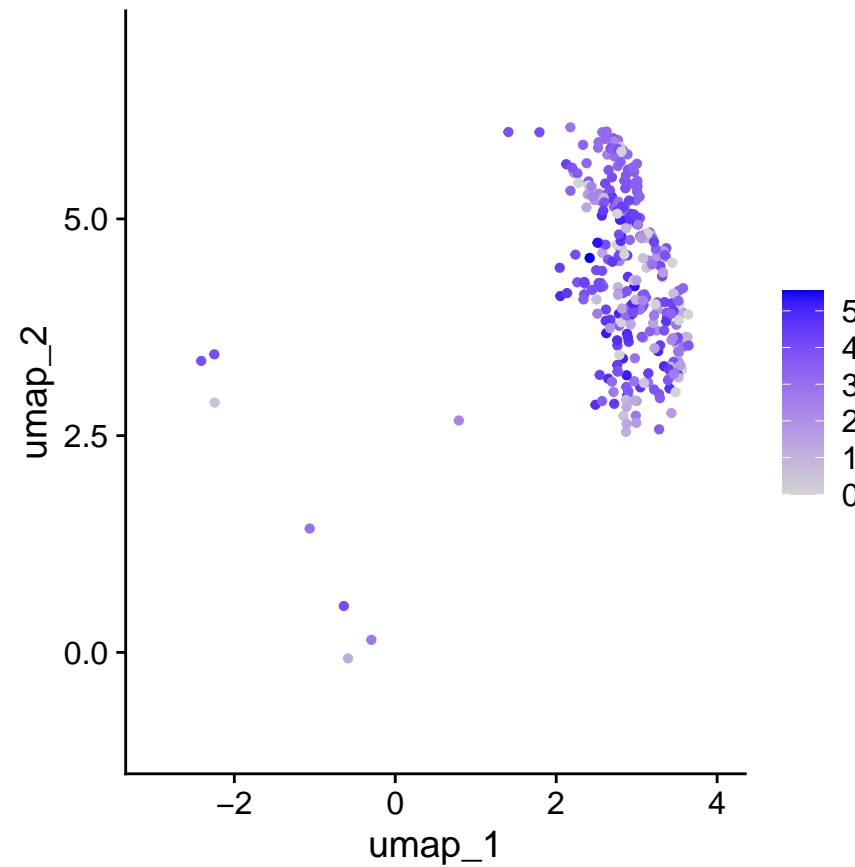
CMP: IL3RA



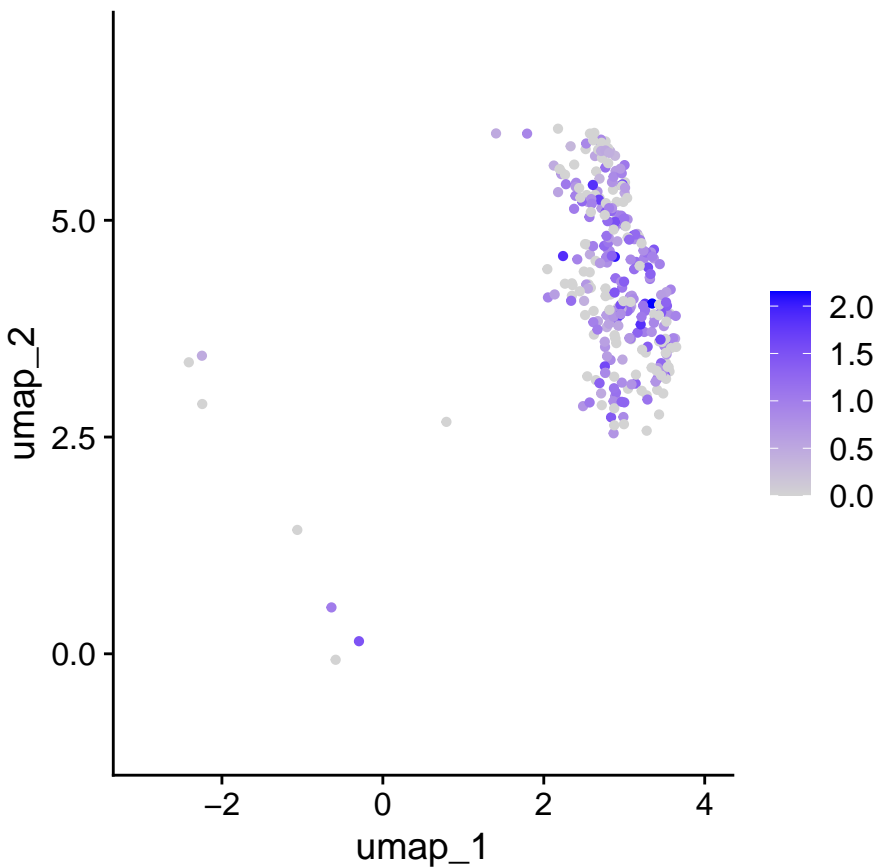
CMP: GATA1 (0)



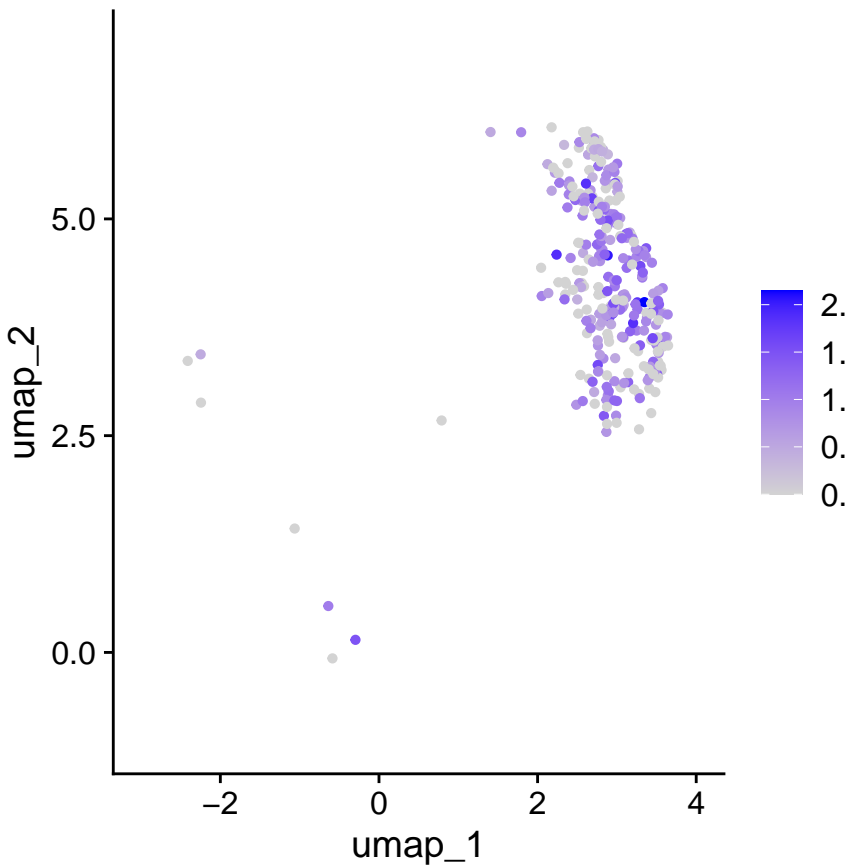
CMP: MPO



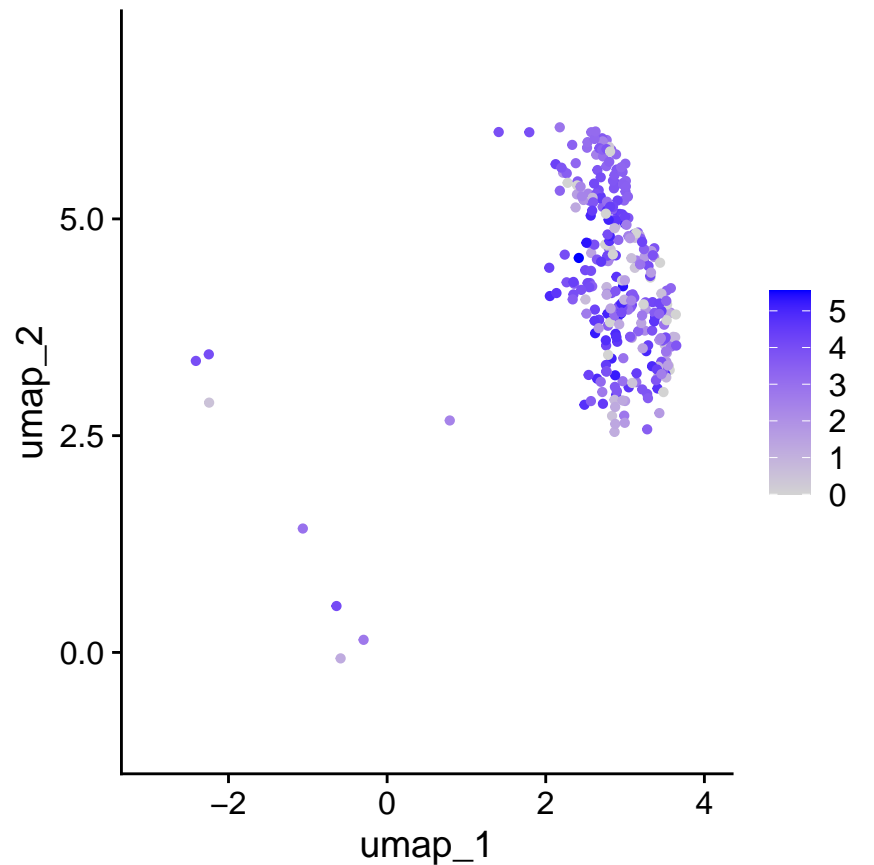
CMP: CEBPA



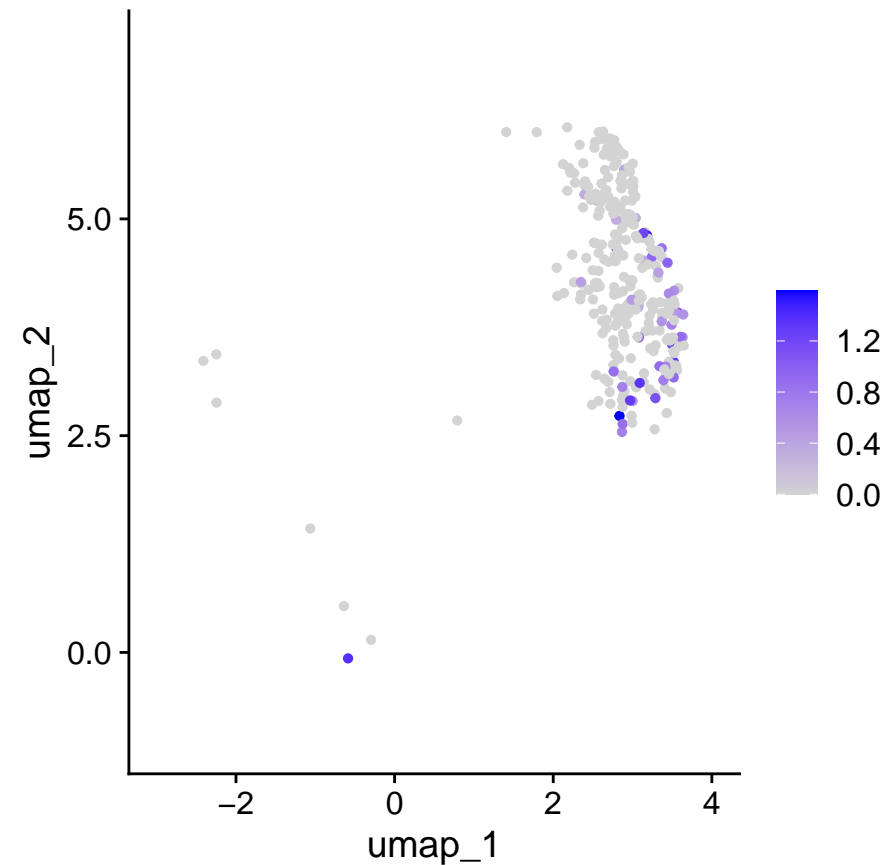
GMP: CEBPA



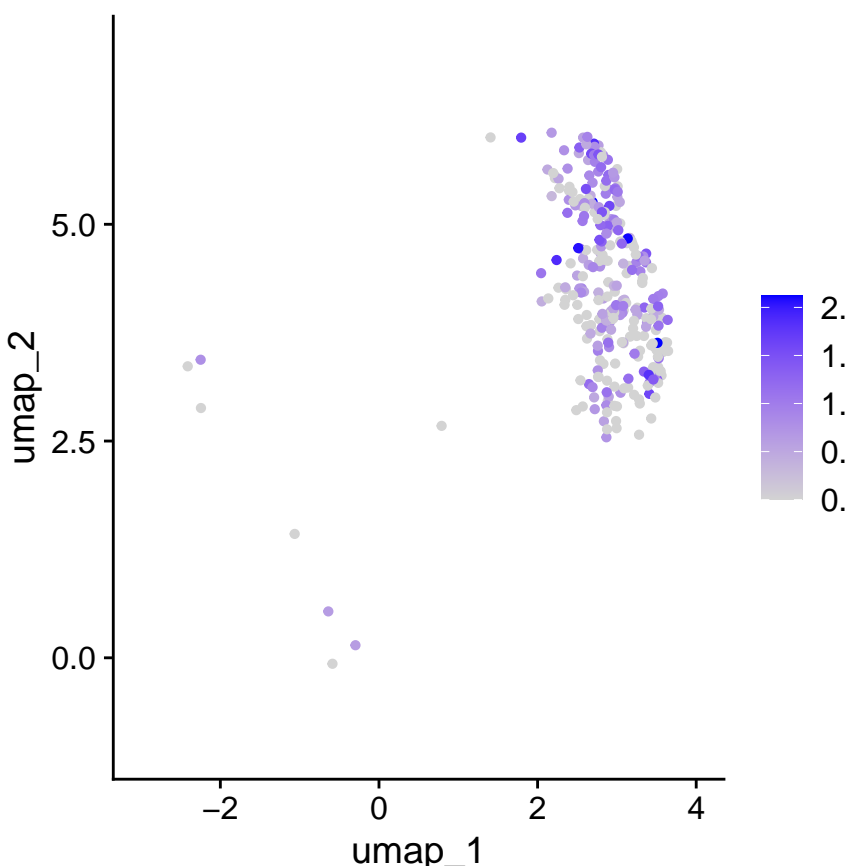
GMP: MPO



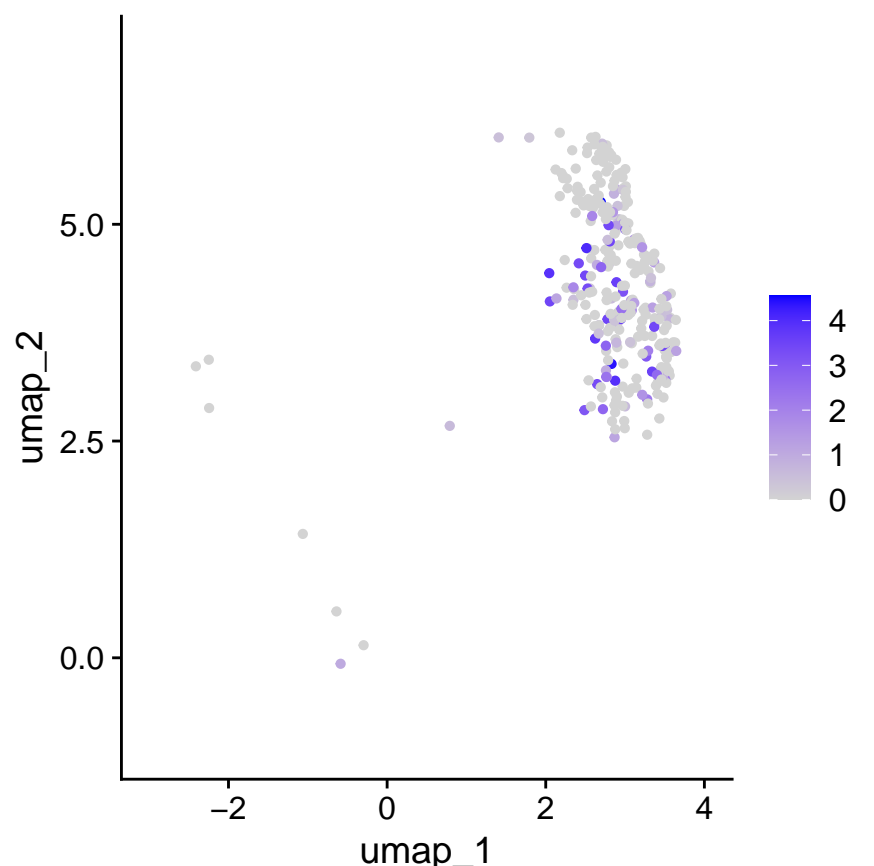
GMP: ITGAM



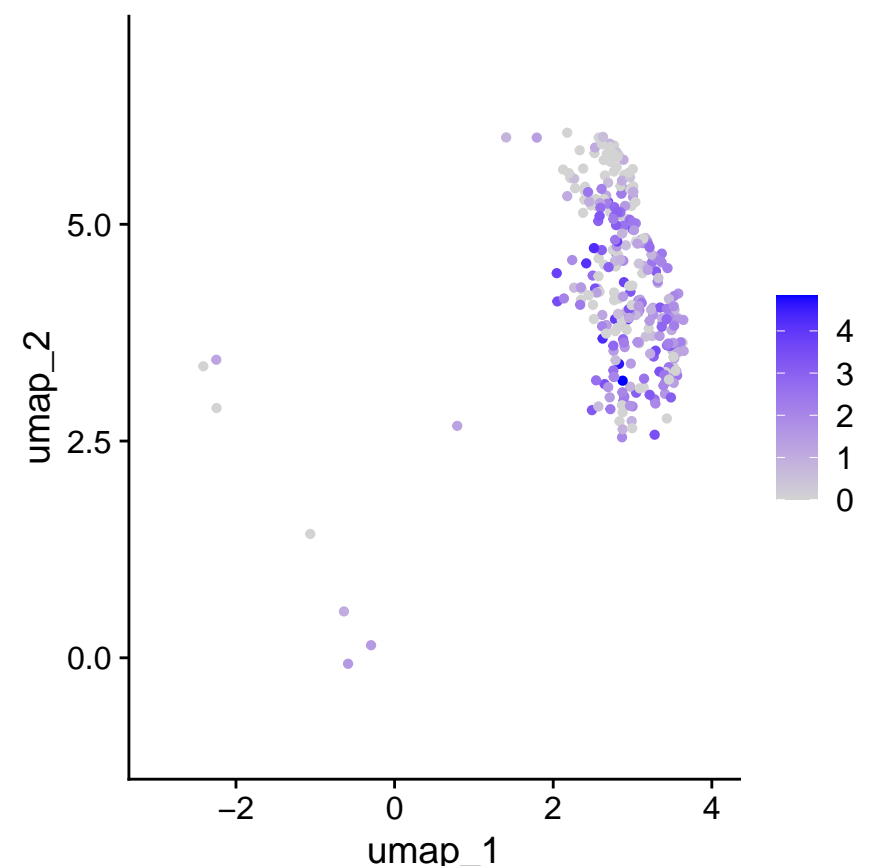
GMP: CSF3R



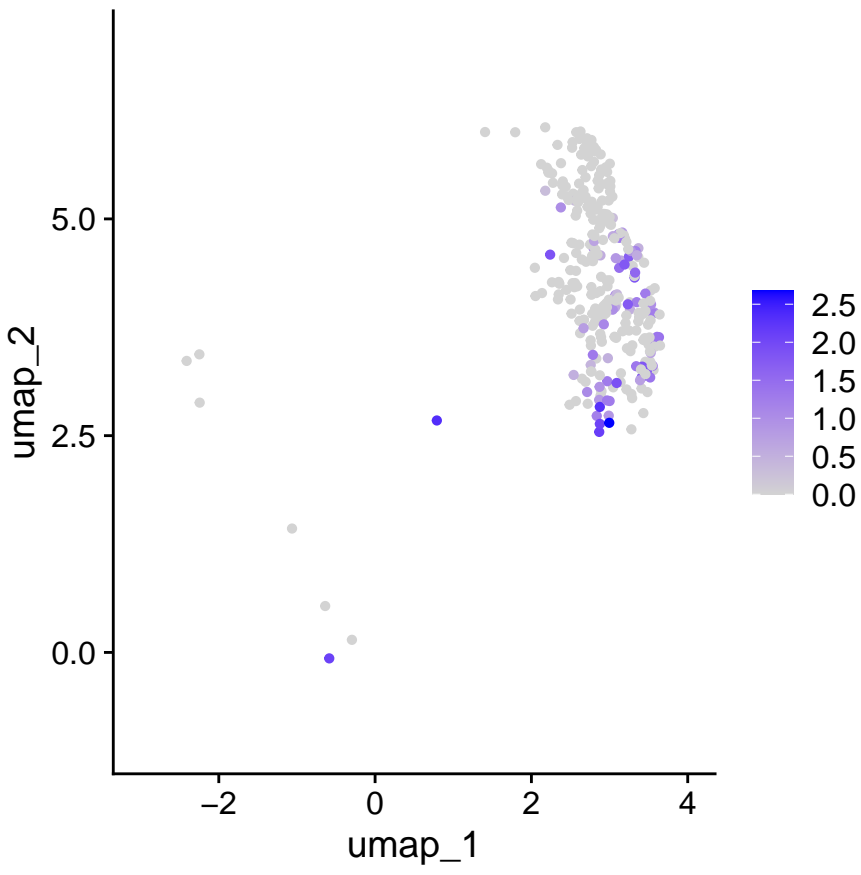
GMP: ELANE



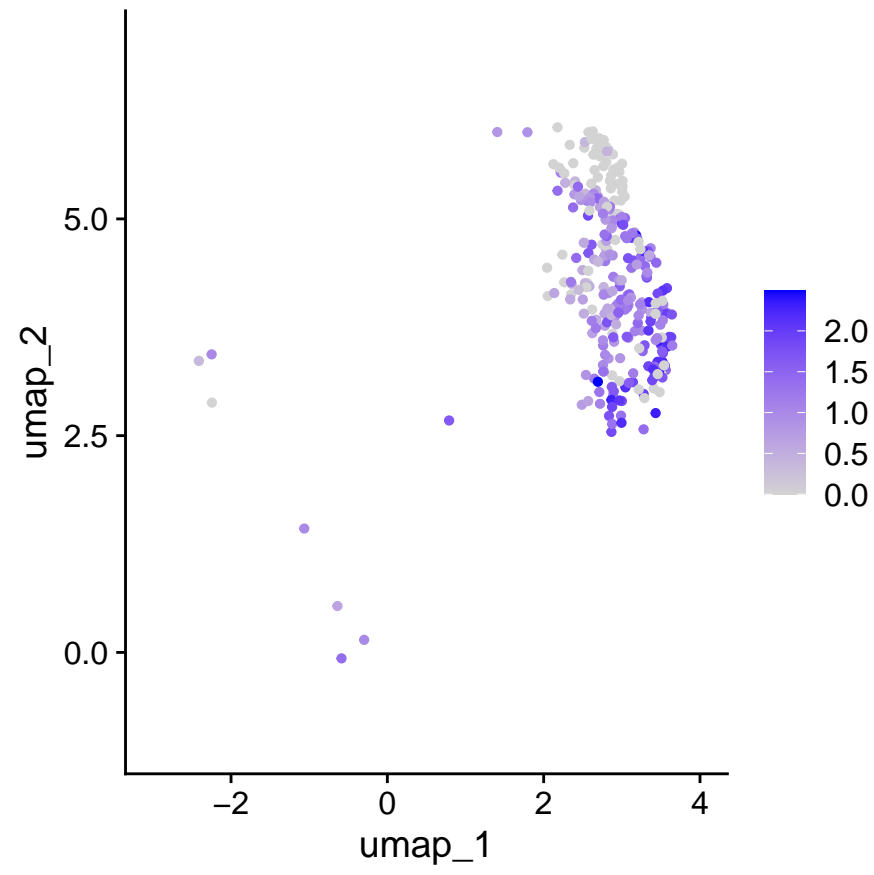
GMP: AZU1



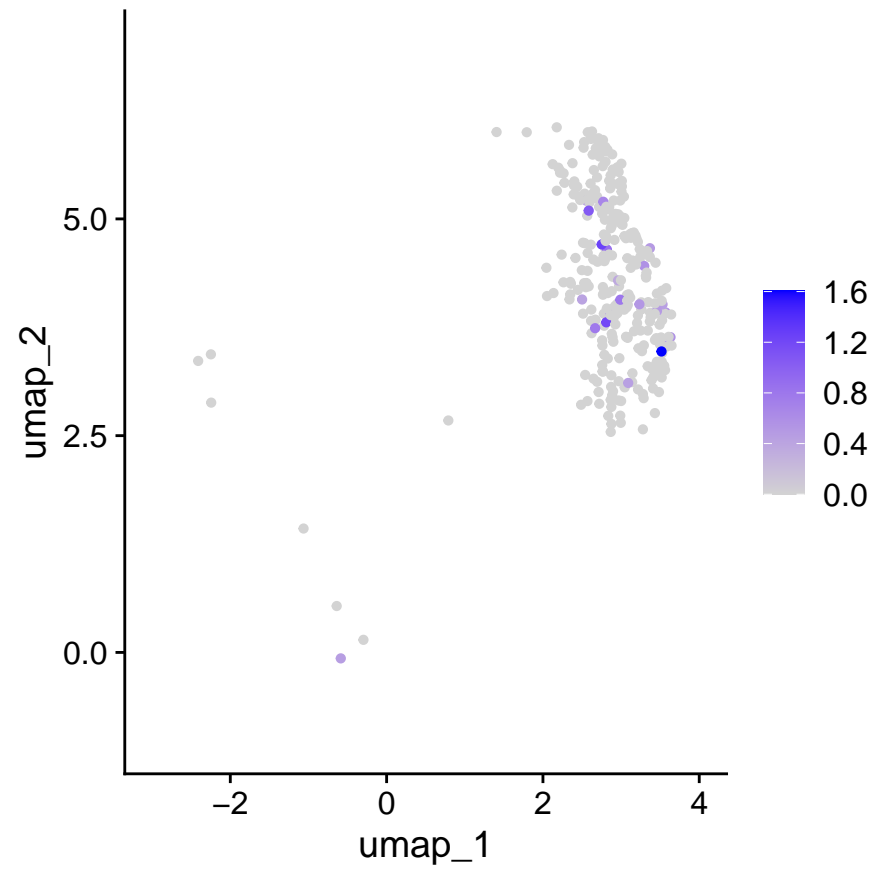
Diff: CD14



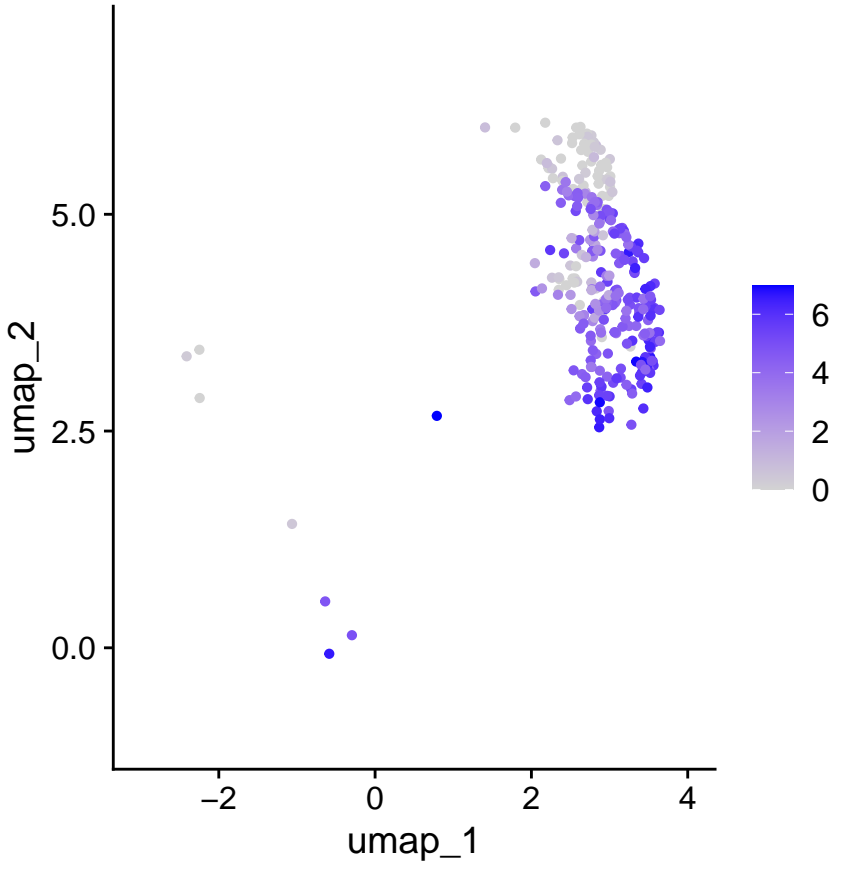
Diff: CD68



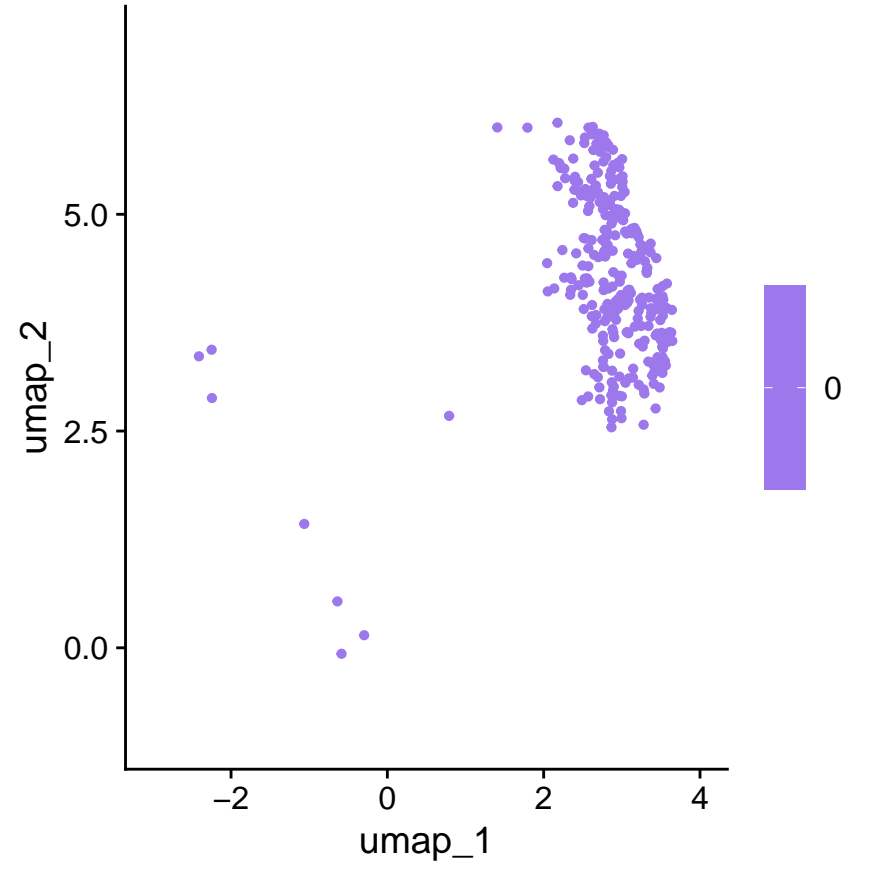
Diff: ITGAX



Diff: S100A9



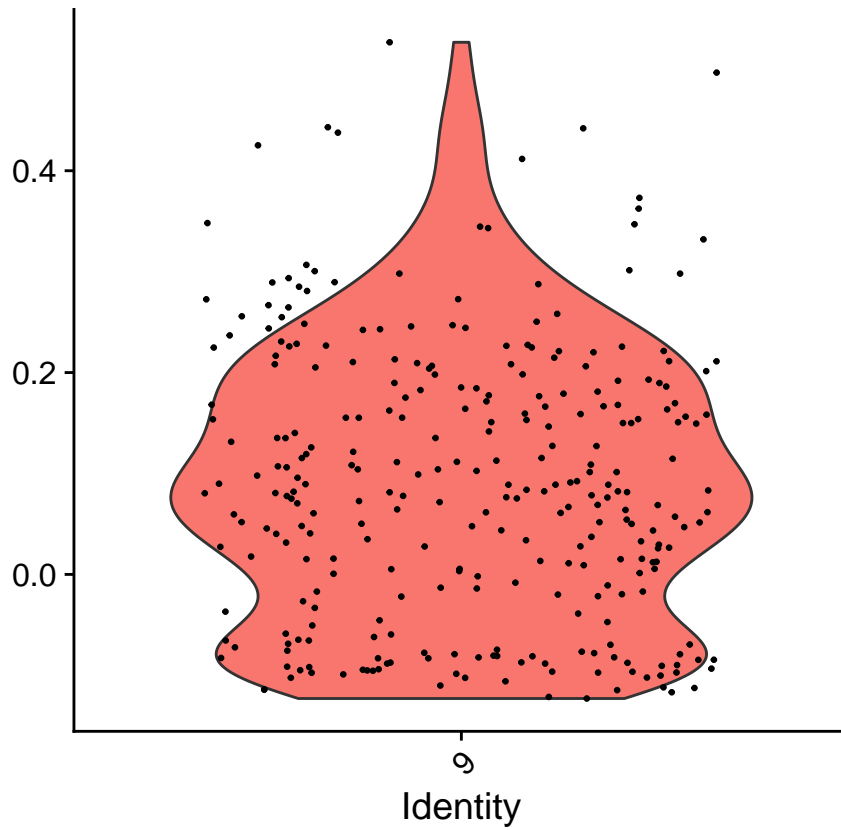
Diff: FCGR3A (0)



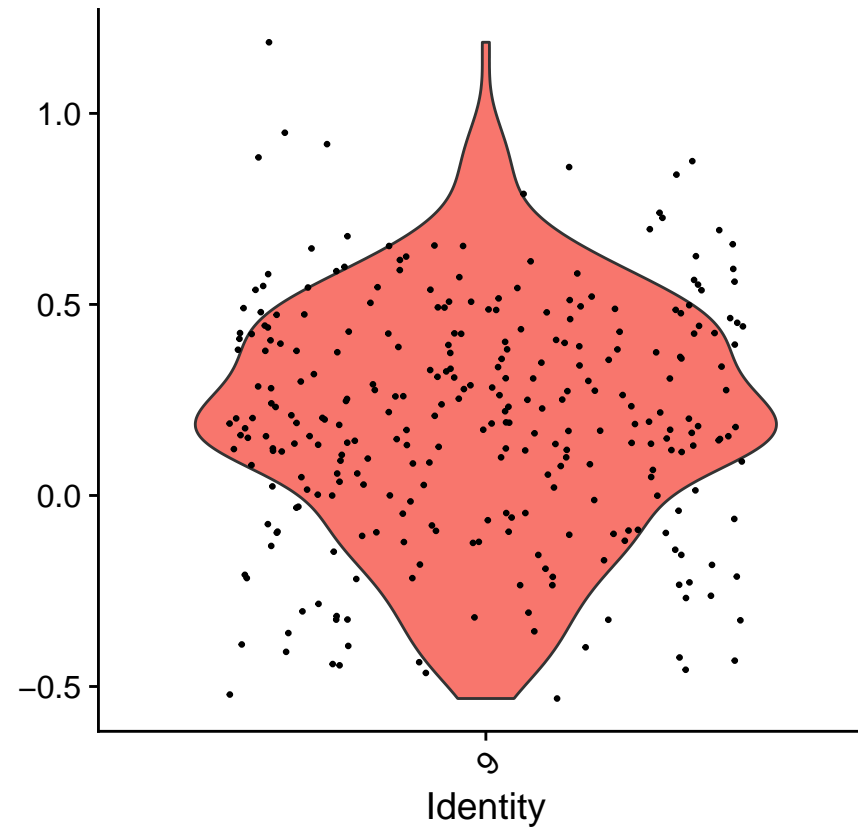
| | Stage | Cell_Count |
|---|--------------|-------------------|
| 1 | CMP_score1 | 130 |
| 2 | Diff_score1 | 1 |
| 3 | GMP_score1 | 23 |
| 4 | HSC_score1 | 26 |
| 5 | MPP_score1 | 115 |

Cluster 9 – Score Violin Plot

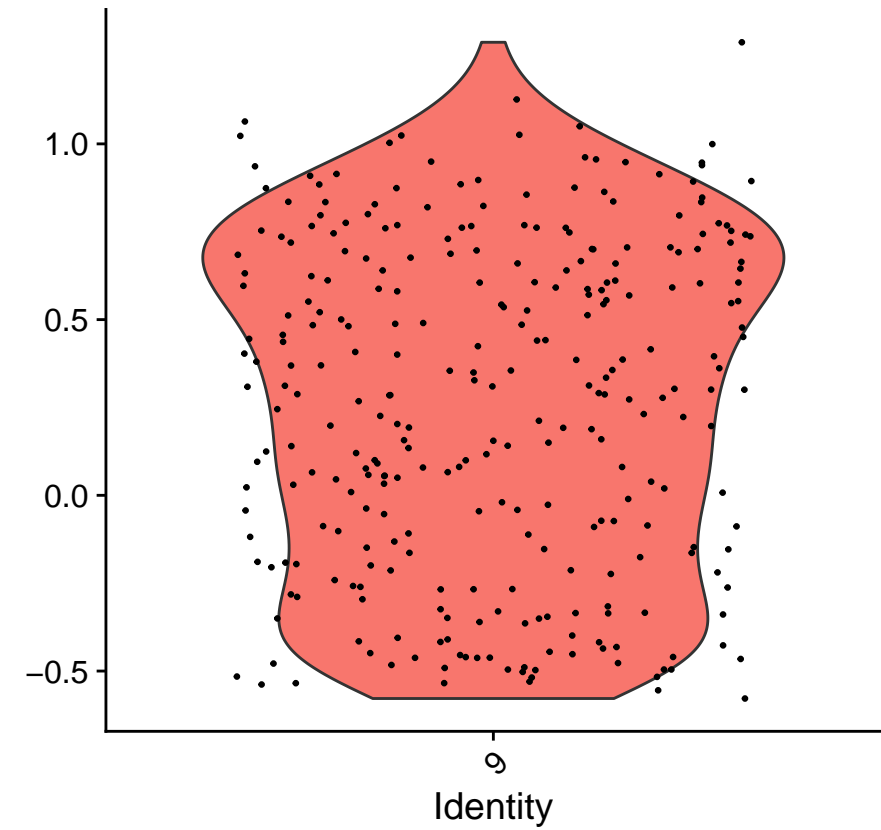
HSC_score1



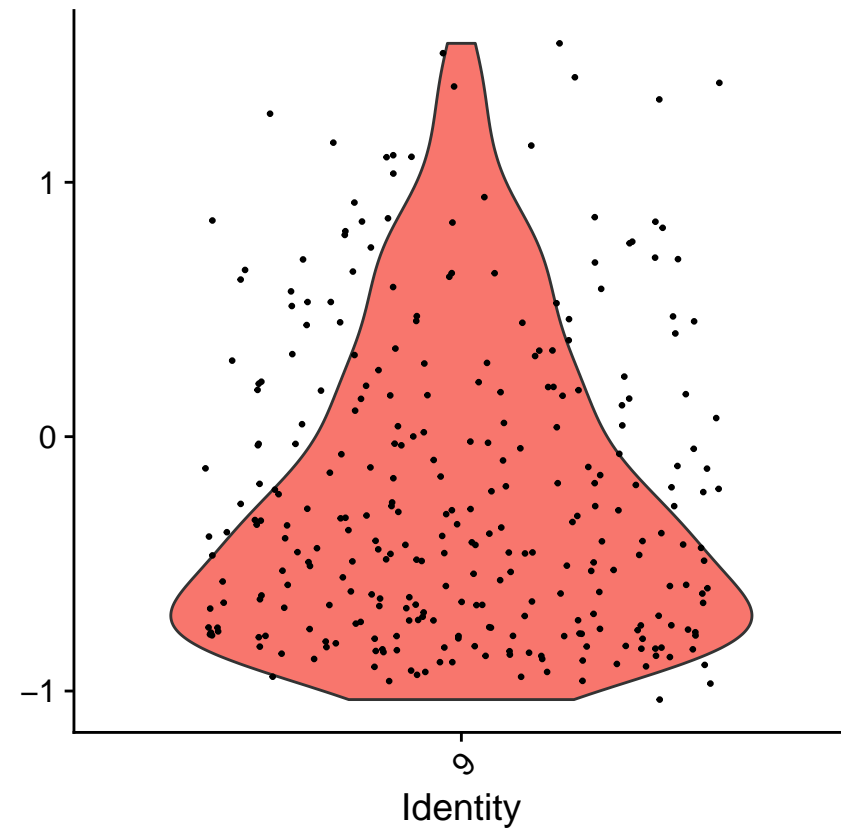
MPP_score1



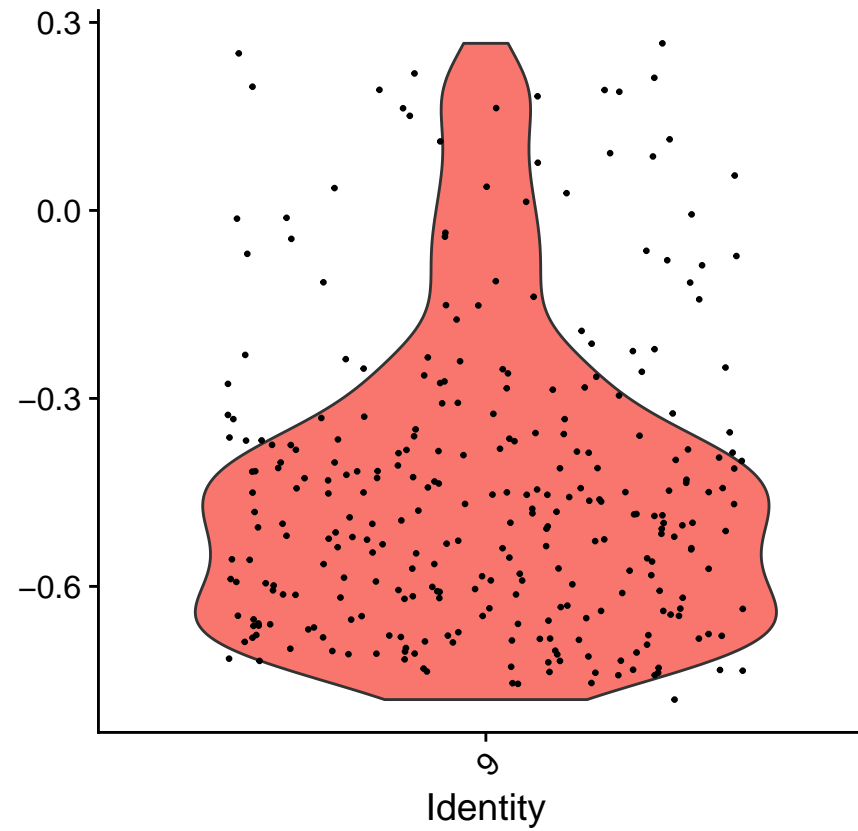
CMP_score1



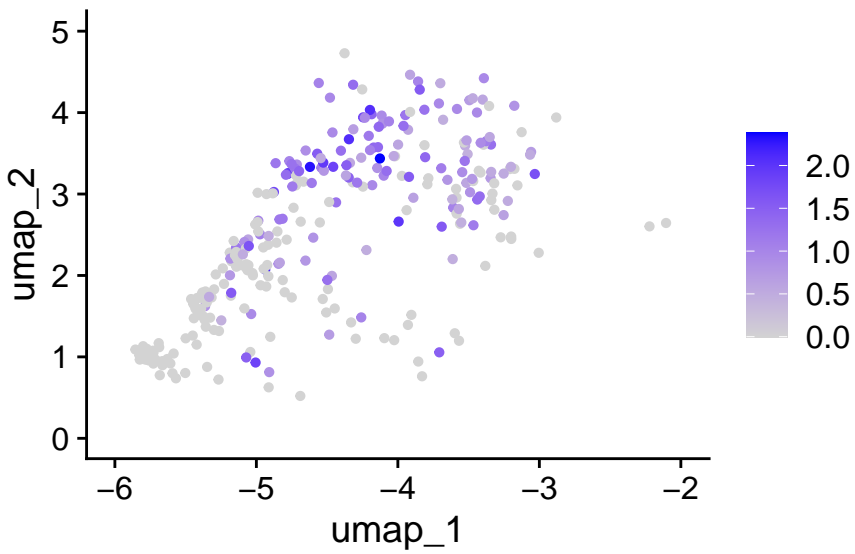
GMP_score1



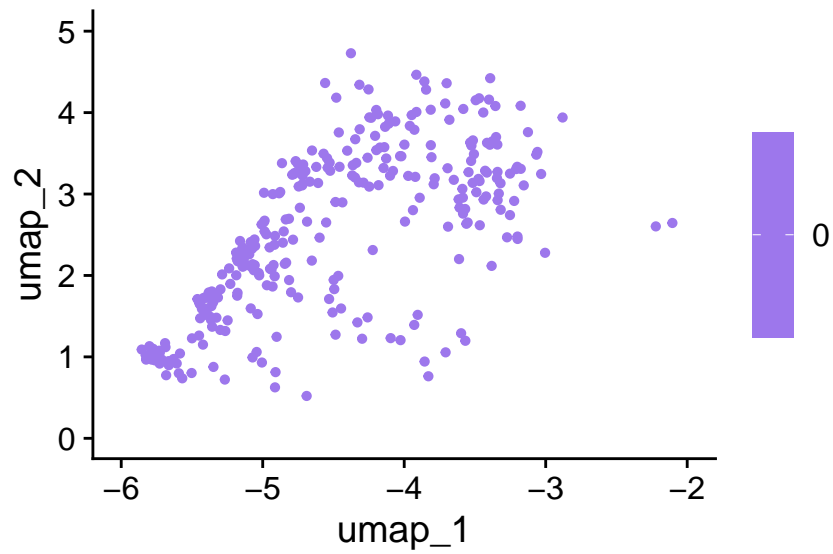
Diff_score1



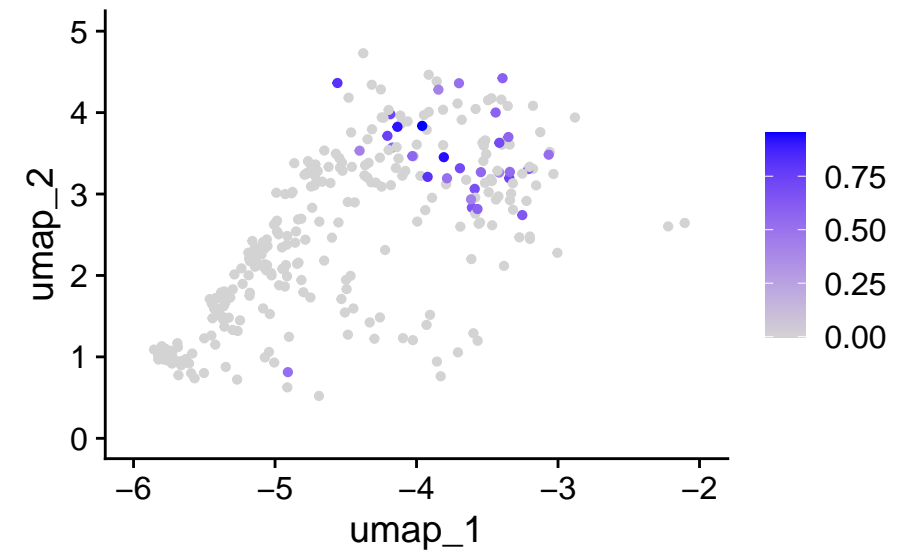
HSC: CD34



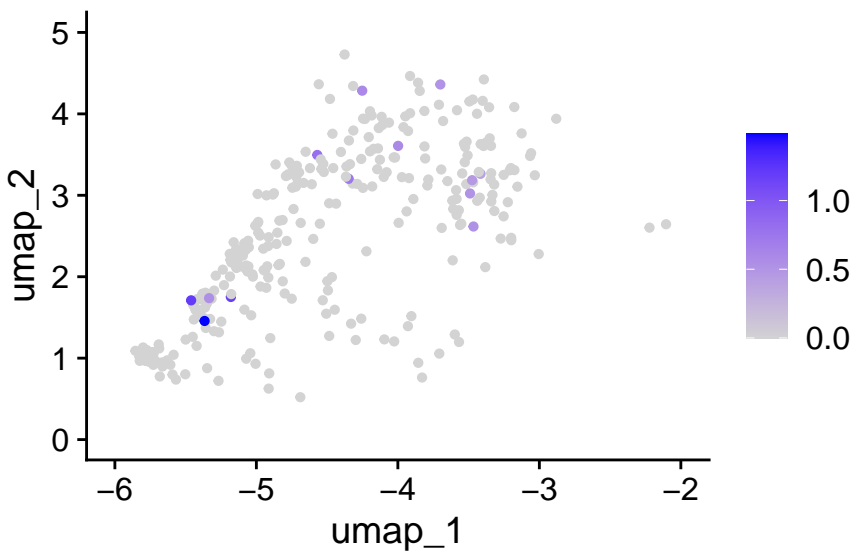
HSC: AVP (0)



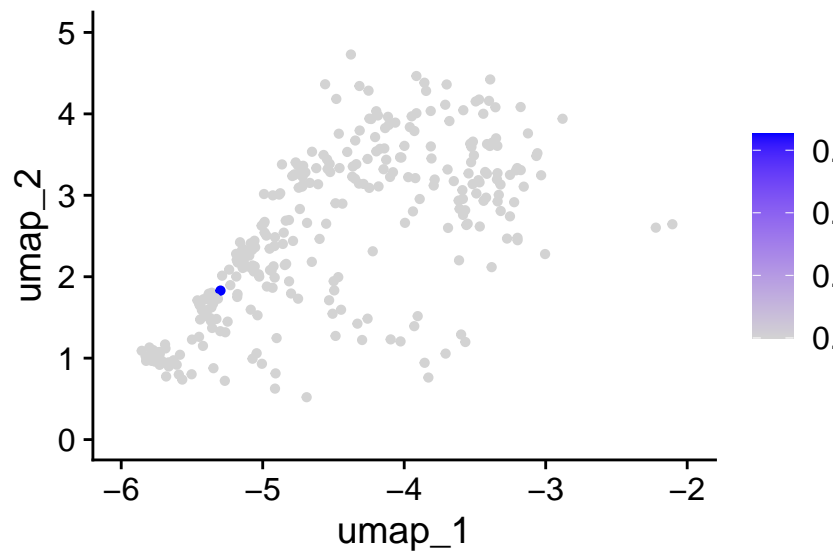
HSC: PROM1



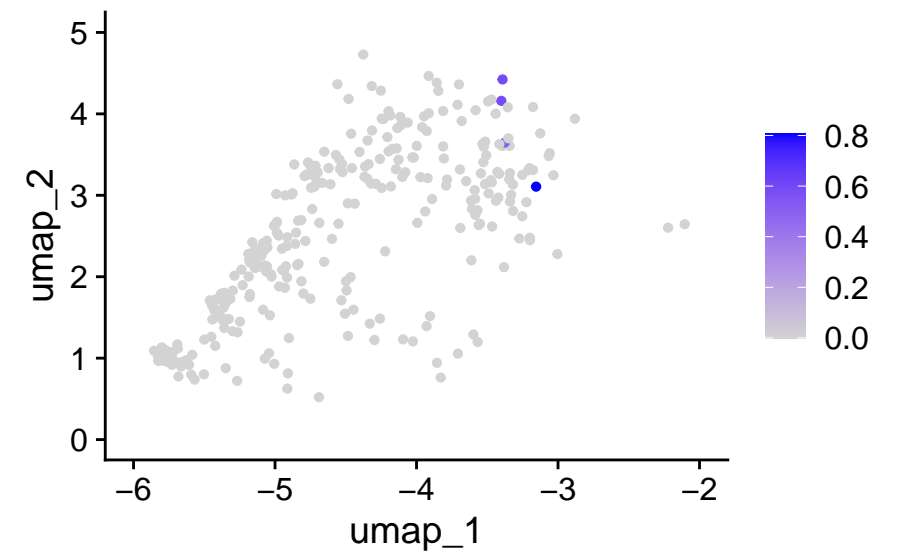
HSC: MEIS1



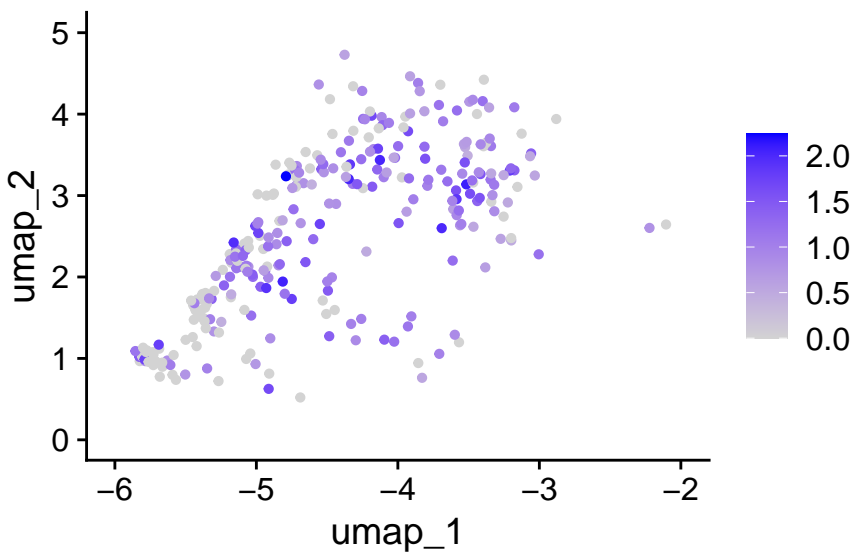
HSC: GATA2



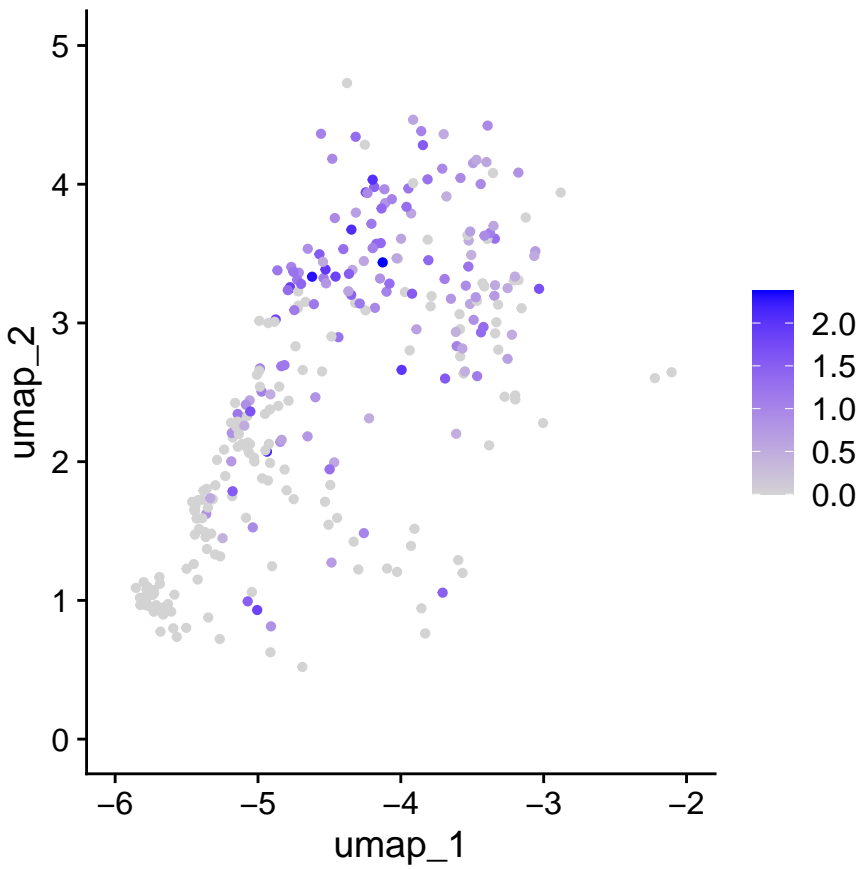
HSC: HOXA9



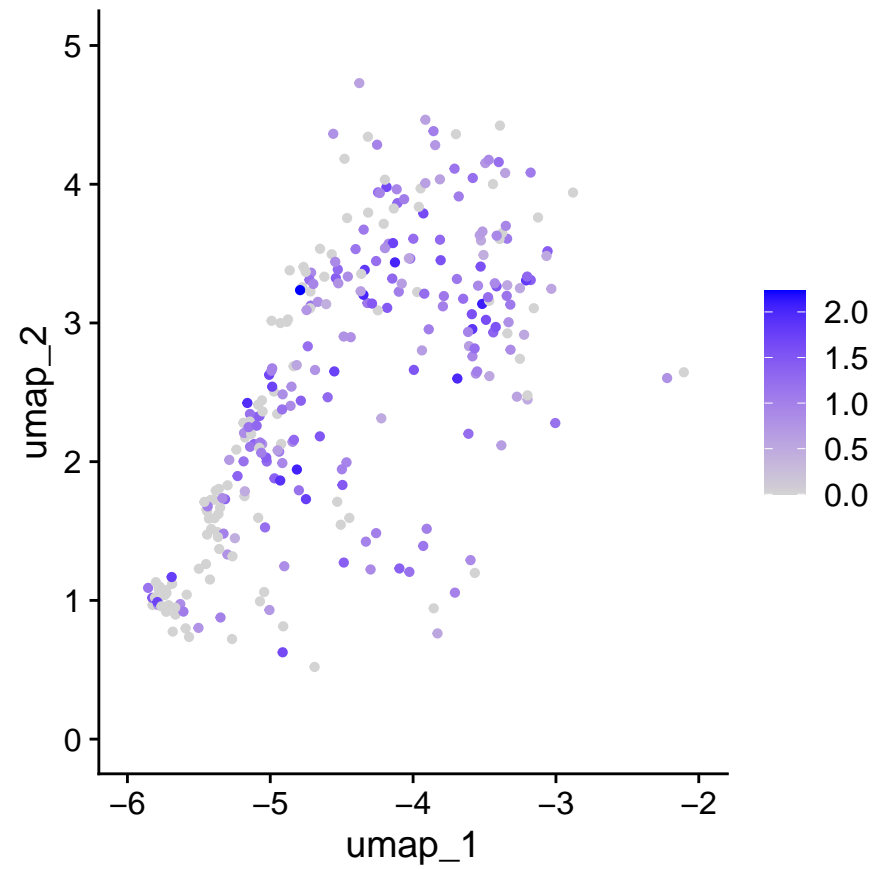
HSC: FLT3



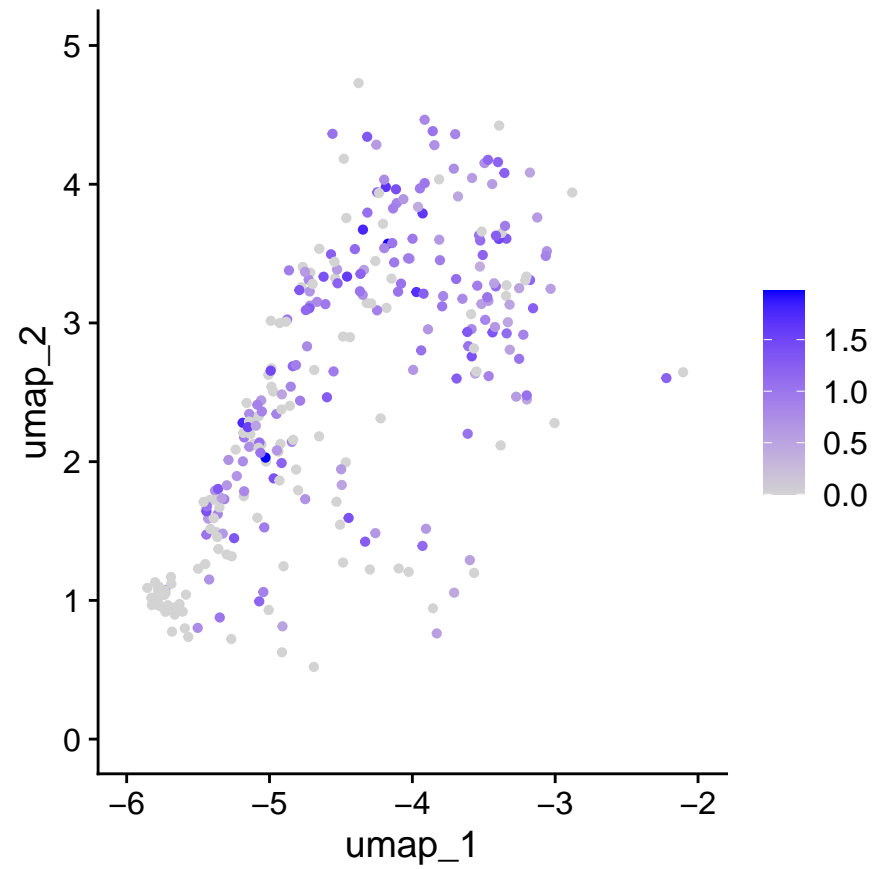
MPP: CD34



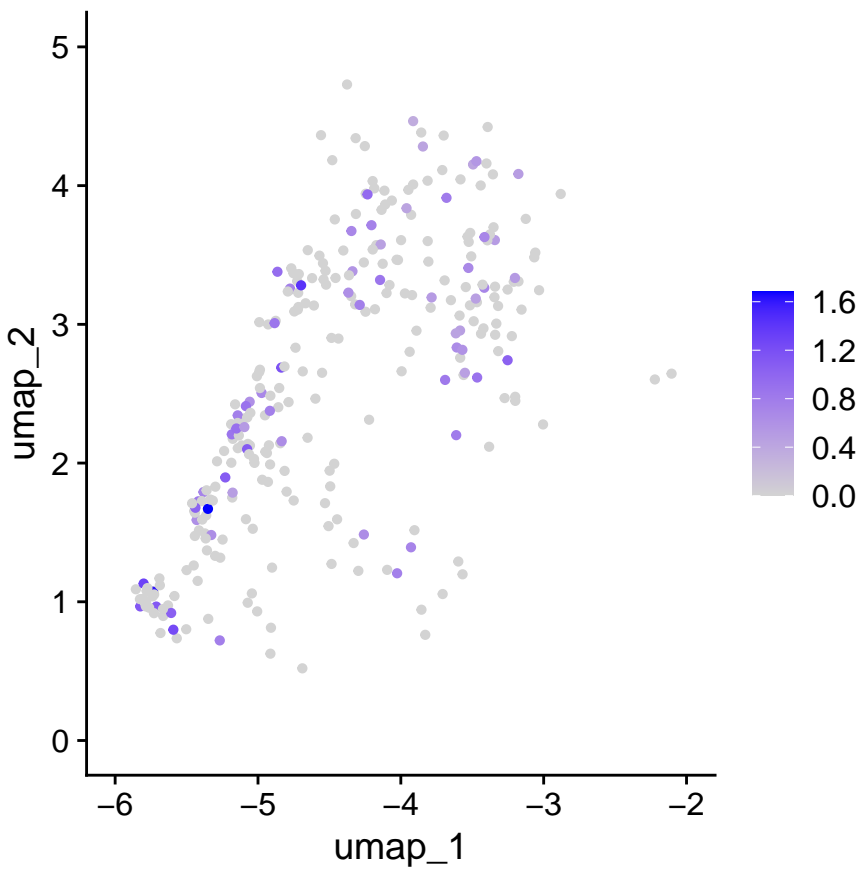
MPP: FLT3



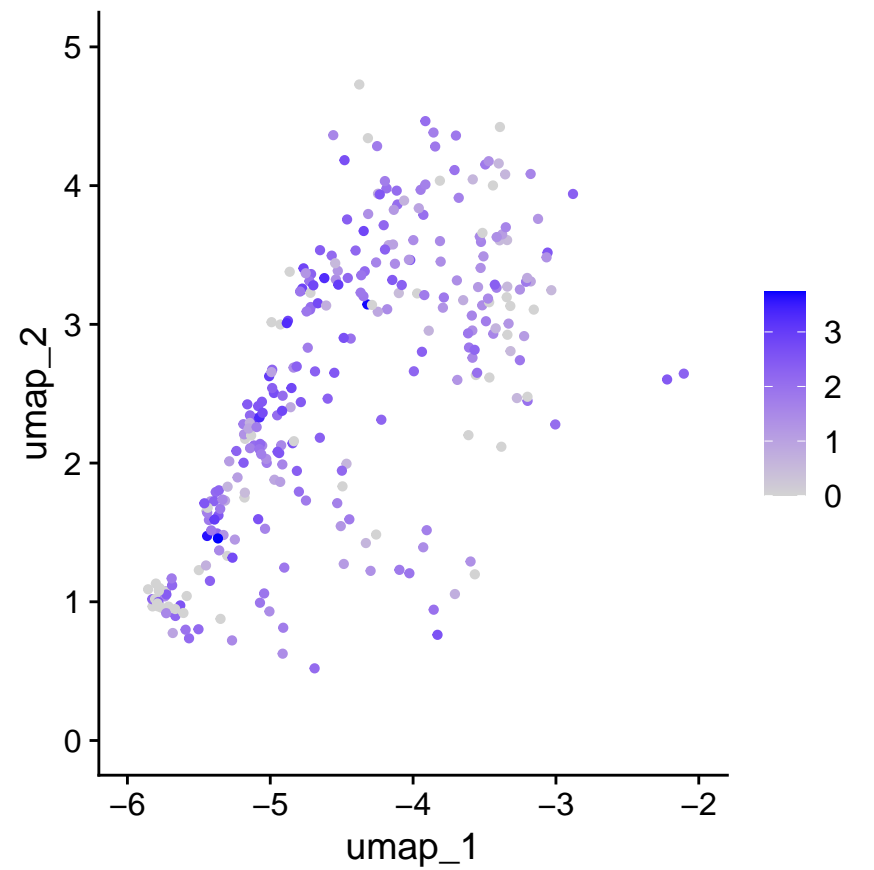
MPP: KIT



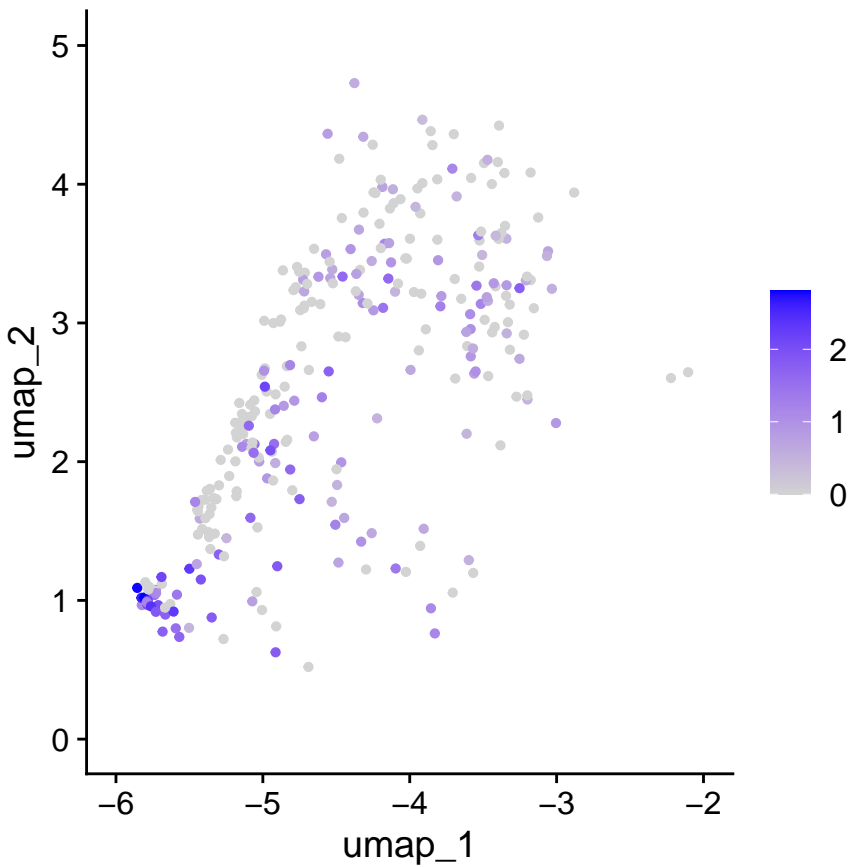
MPP: CD38



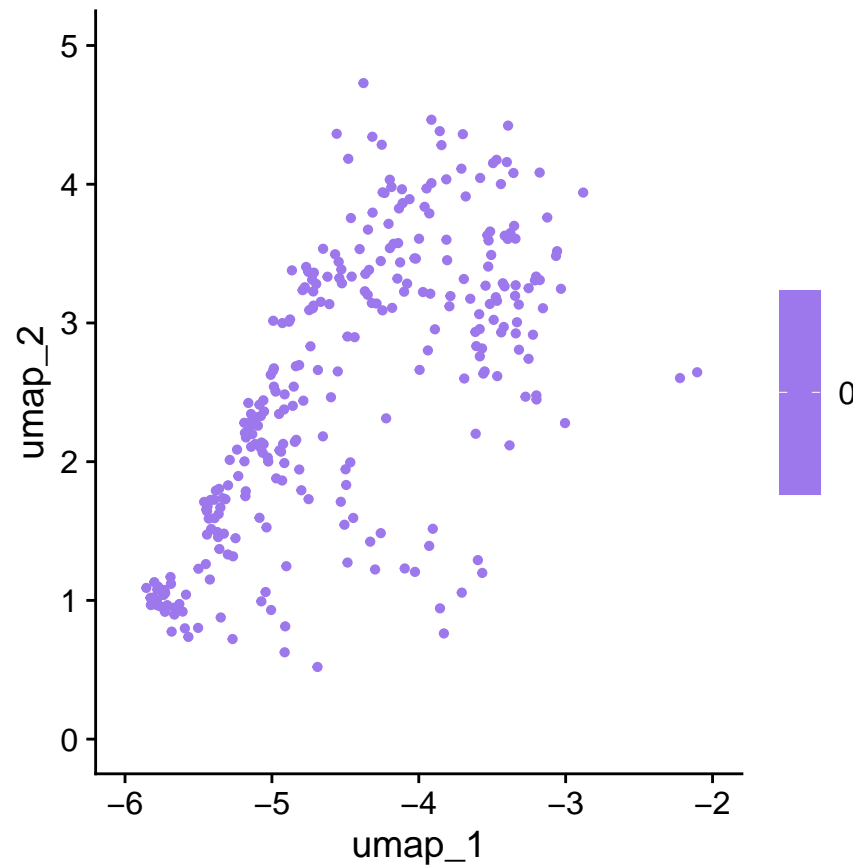
MPP: SOX4



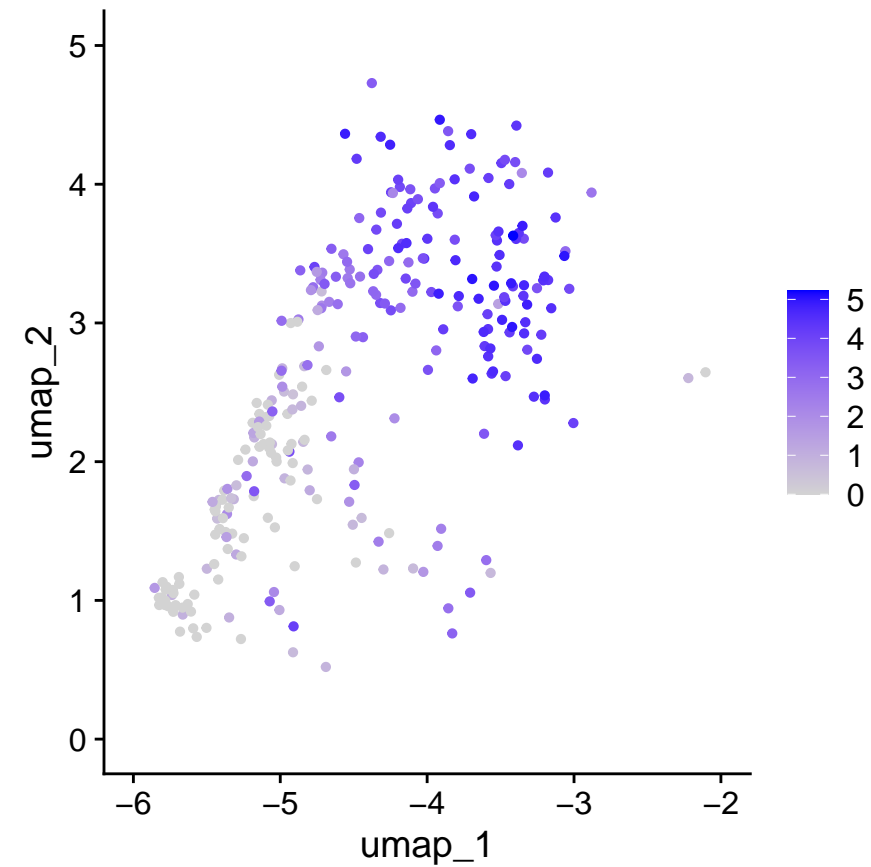
CMP: IL3RA



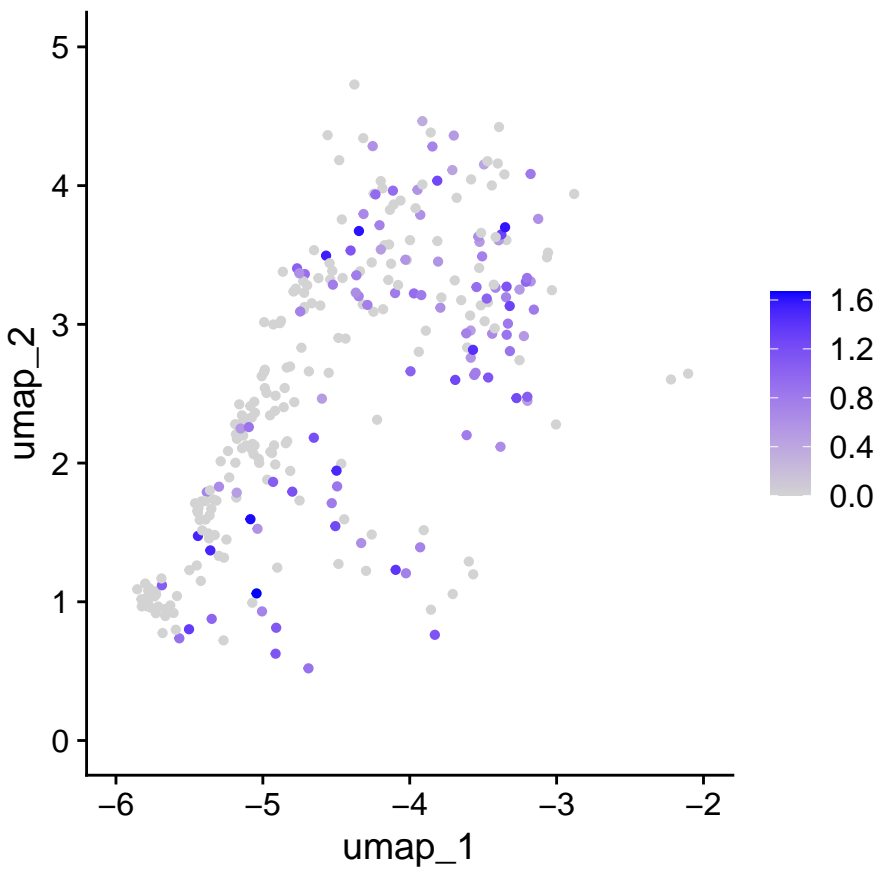
CMP: GATA1 (0)



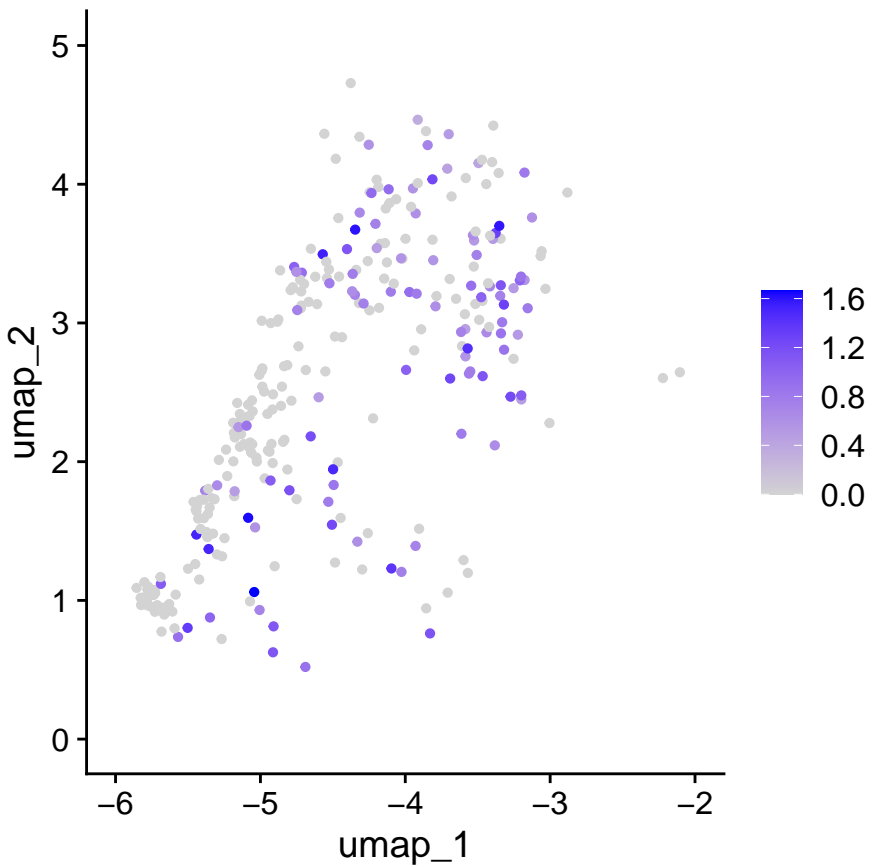
CMP: MPO



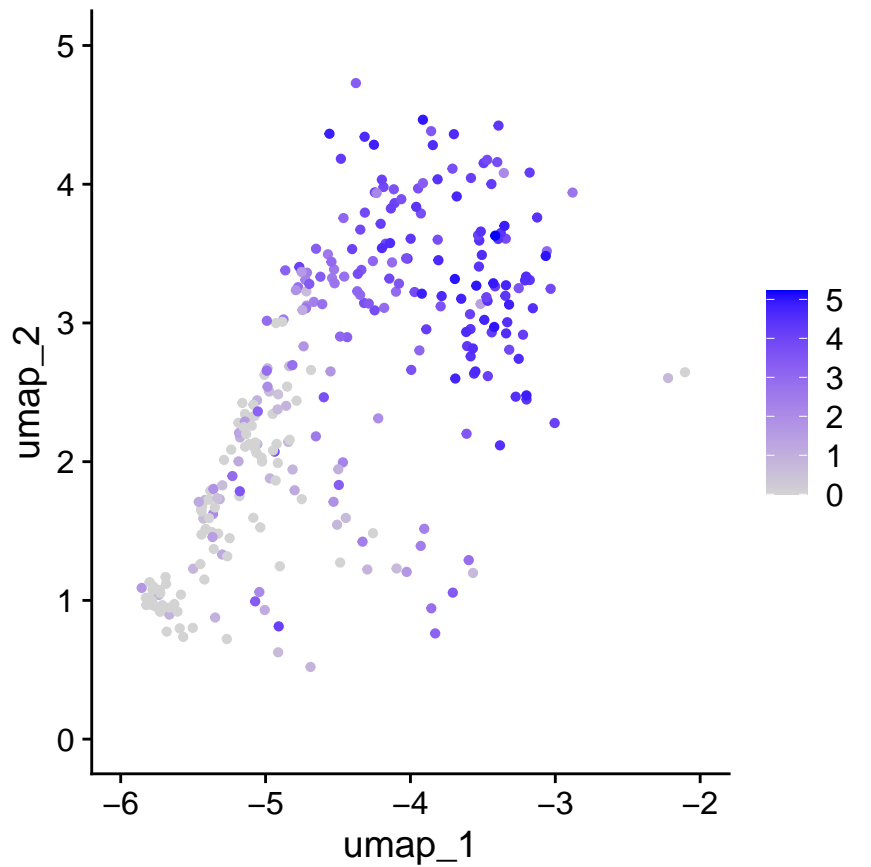
CMP: CEBPA



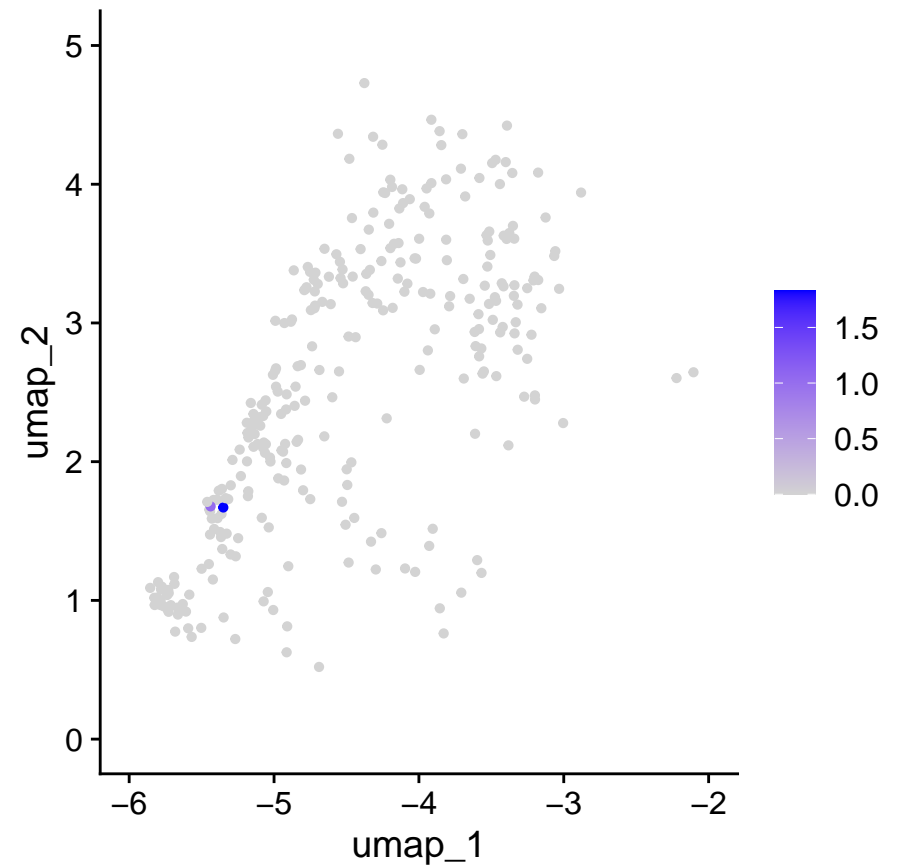
GMP: CEBPA



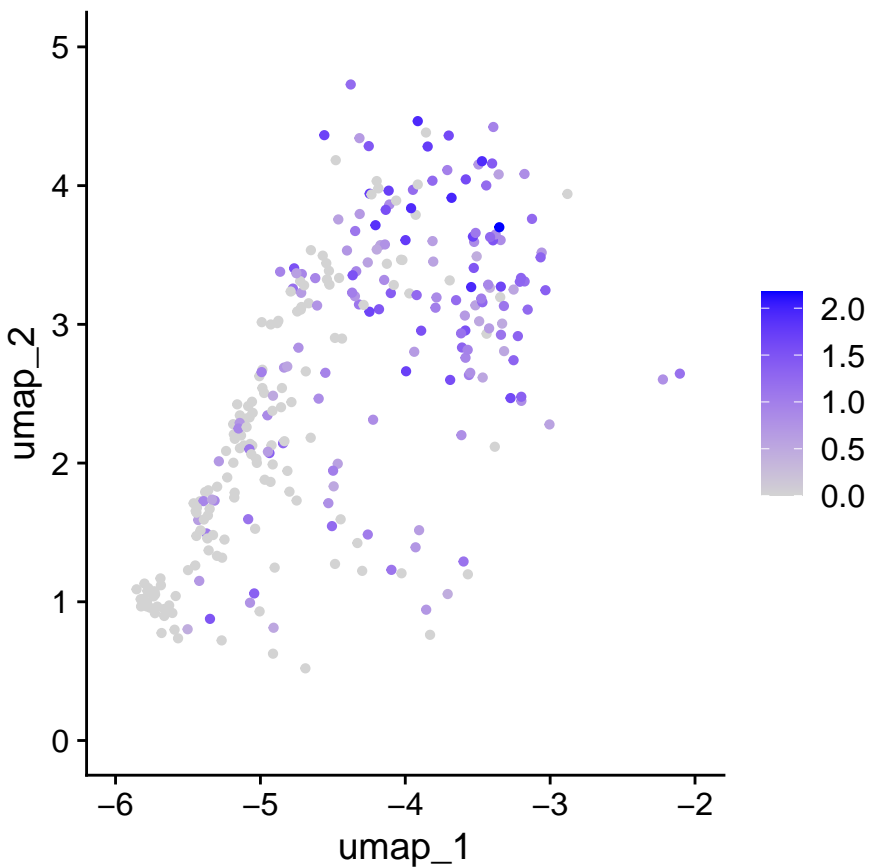
GMP: MPO



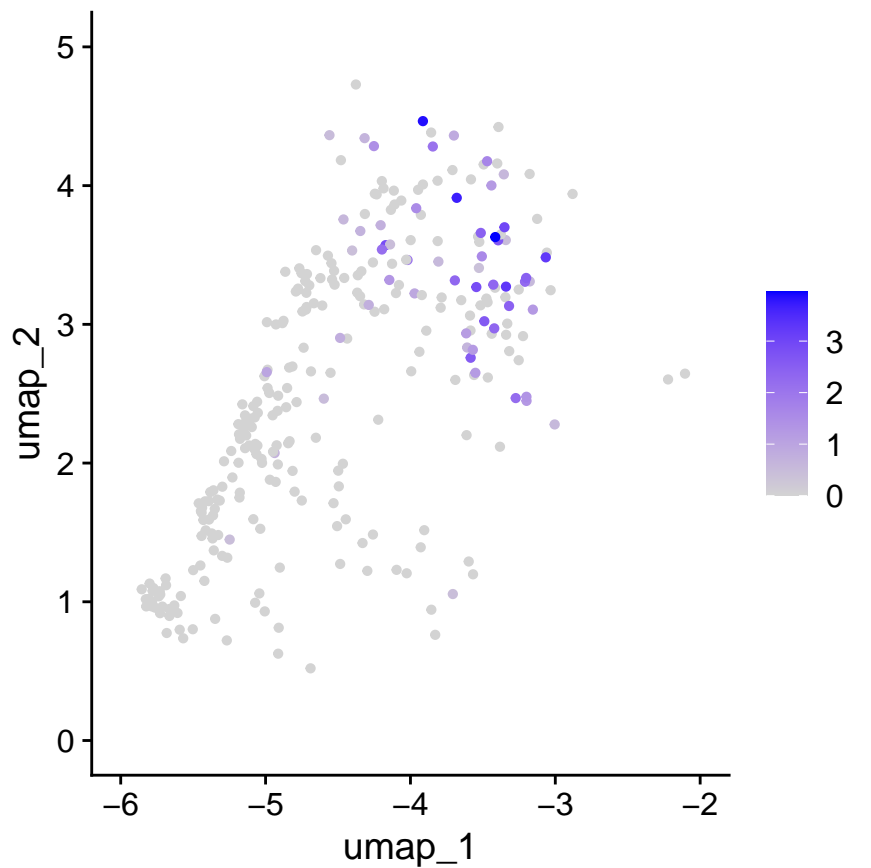
GMP: ITGAM



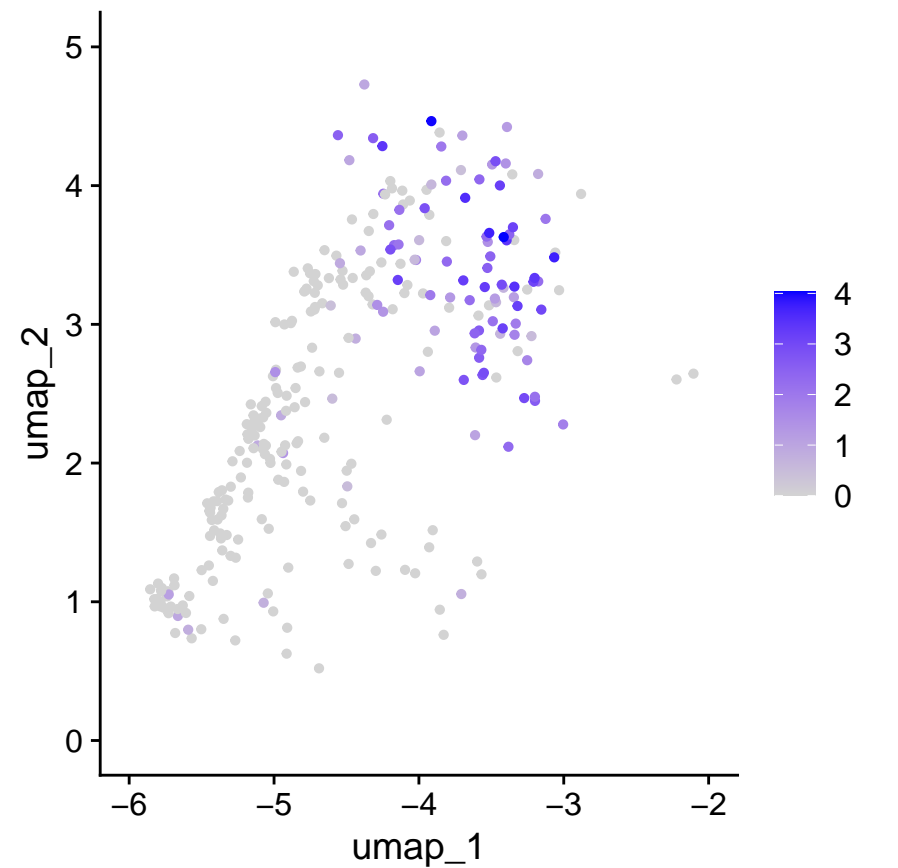
GMP: CSF3R



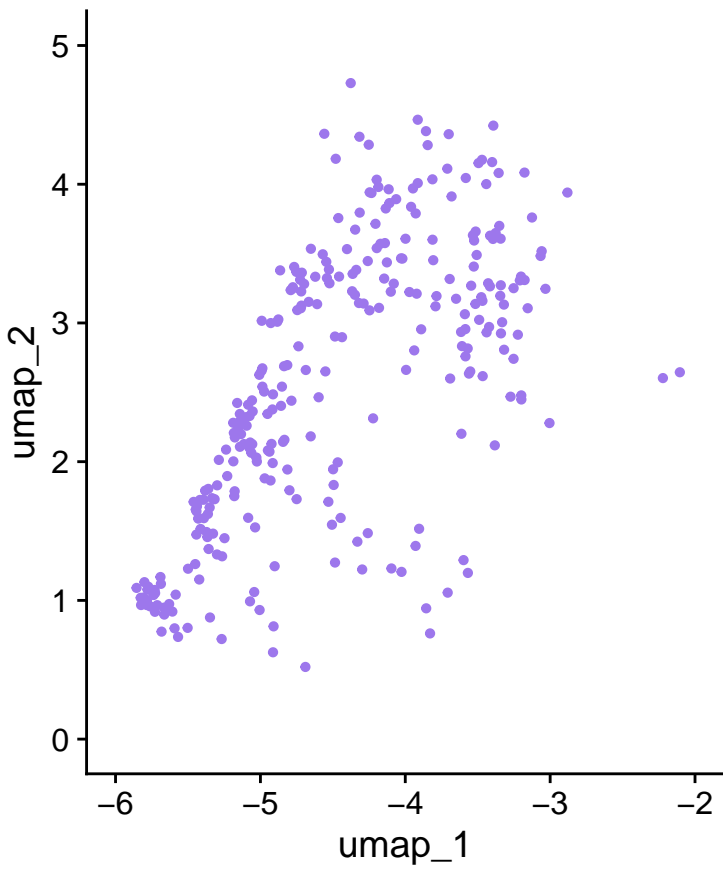
GMP: ELANE



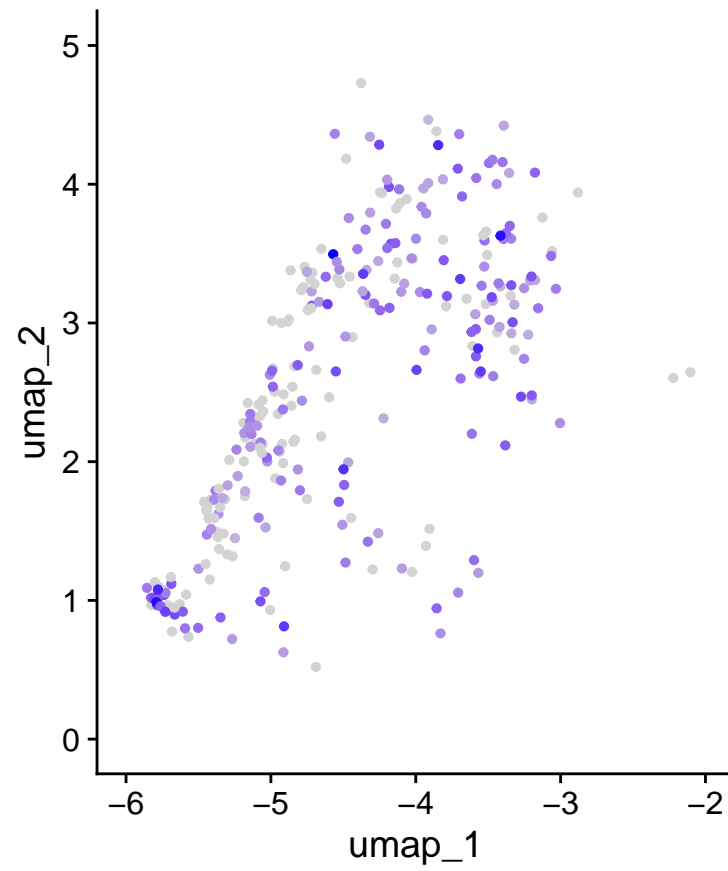
GMP: AZU1



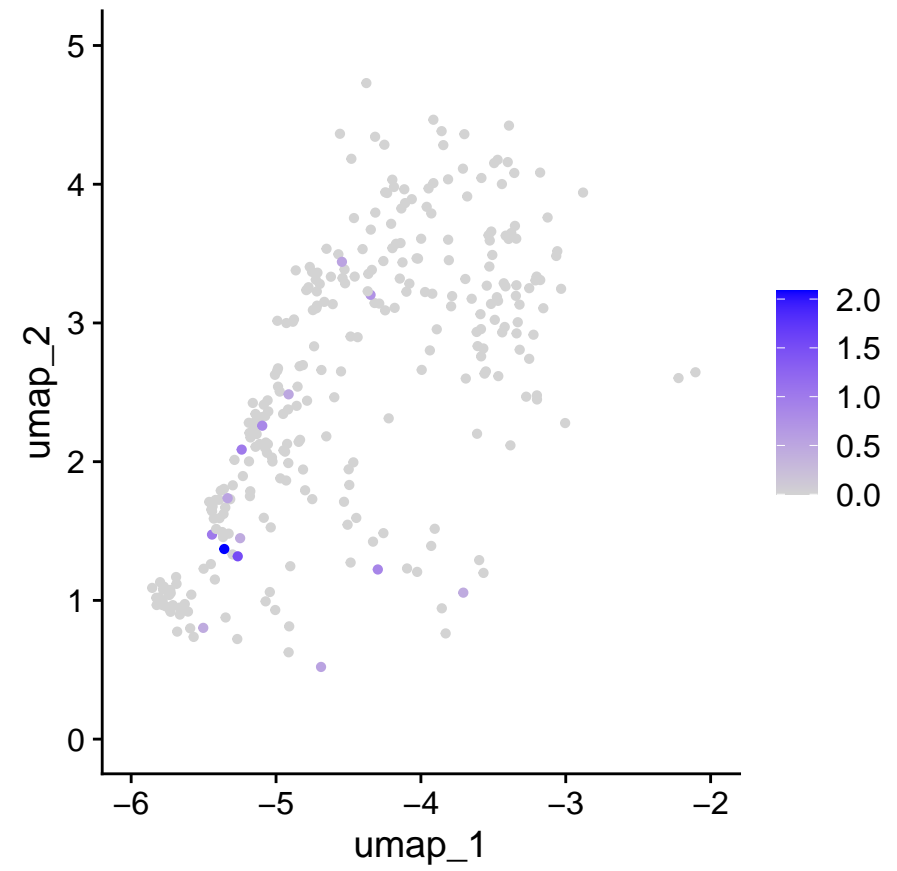
Diff: CD14 (0)



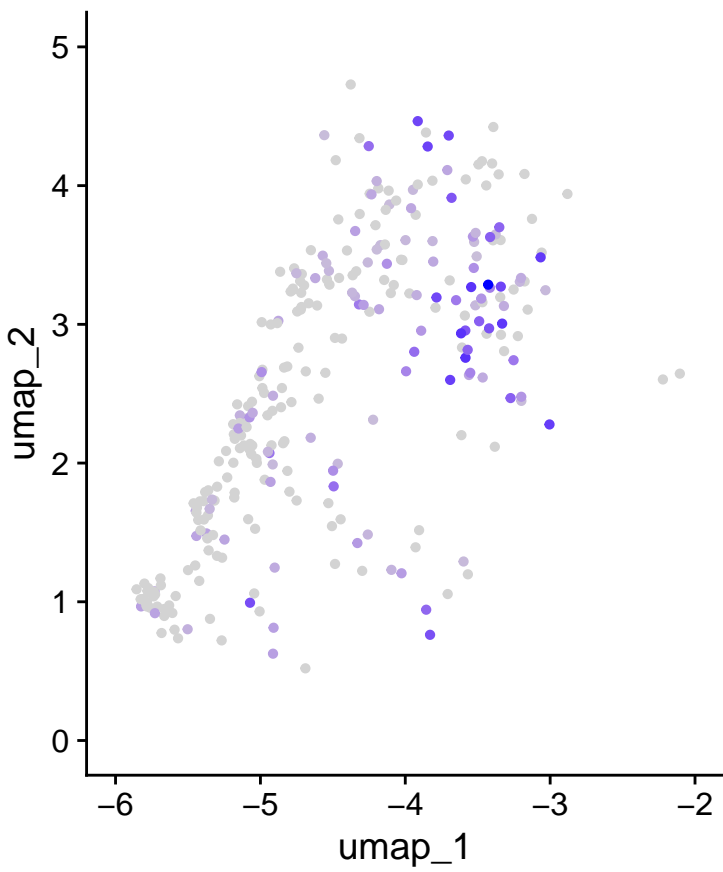
Diff: CD68



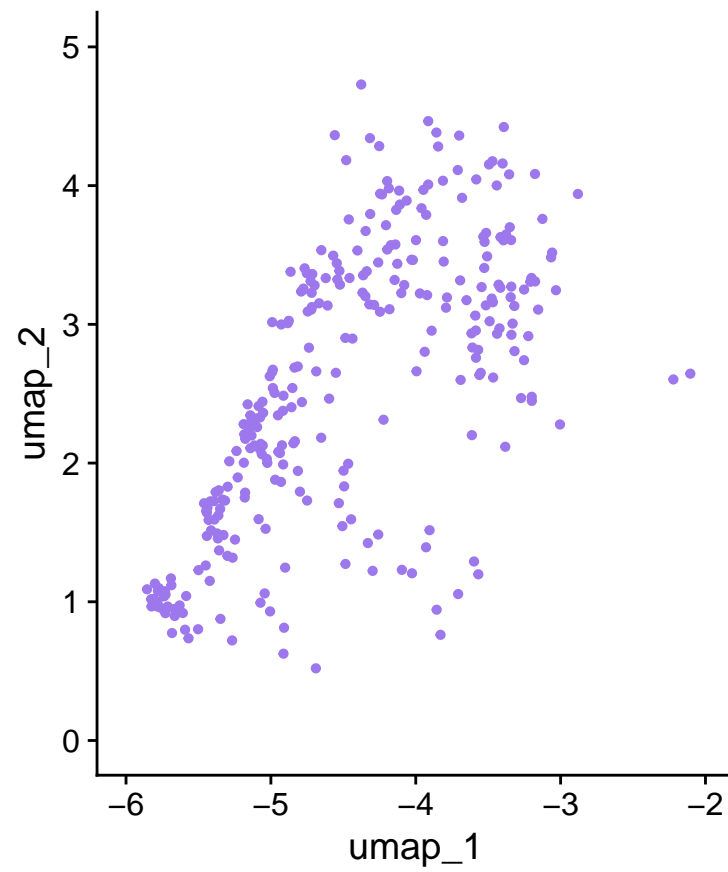
Diff: ITGAX



Diff: S100A9



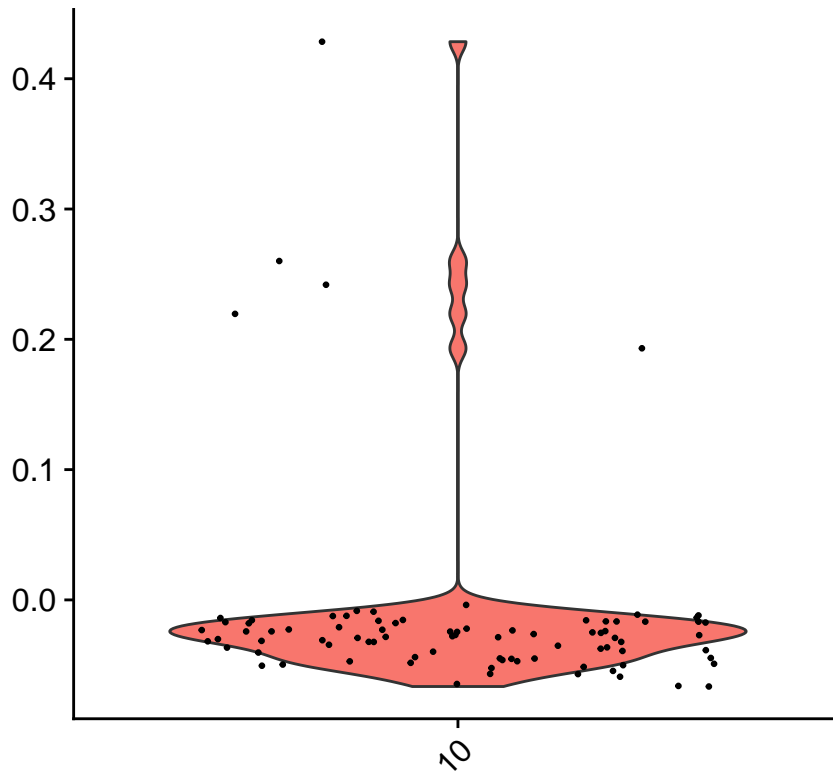
Diff: FCGR3A (0)



| | Stage | Cell_Count |
|---|--------------|-------------------|
| 1 | CMP_score1 | 23 |
| 2 | Diff_score1 | 11 |
| 3 | GMP_score1 | 2 |
| 4 | HSC_score1 | 48 |
| 5 | MPP_score1 | 1 |

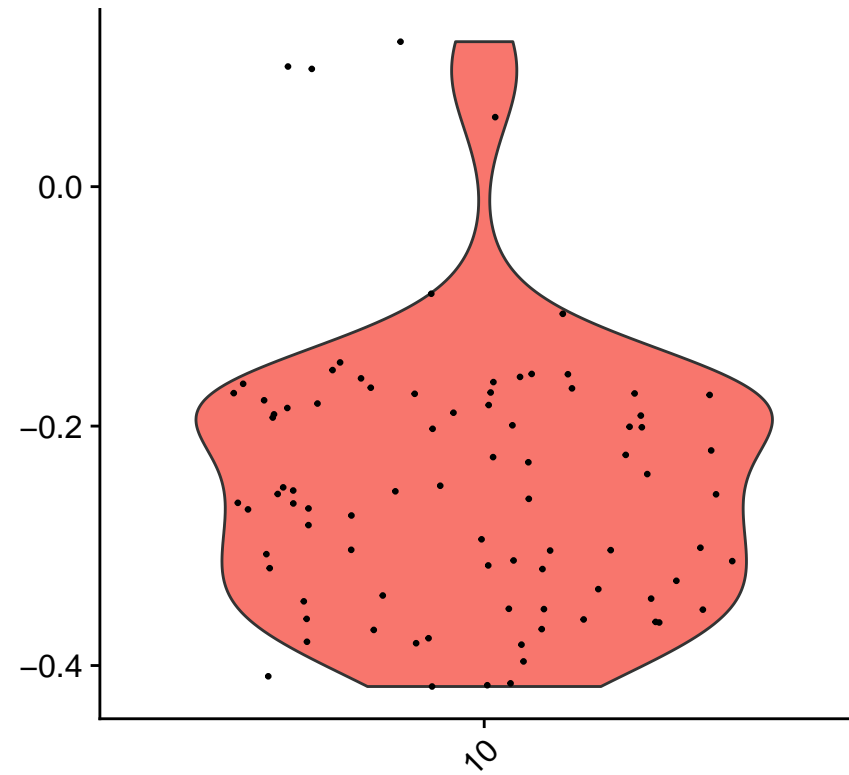
Cluster 10 – Score Violin Plot

HSC_score1



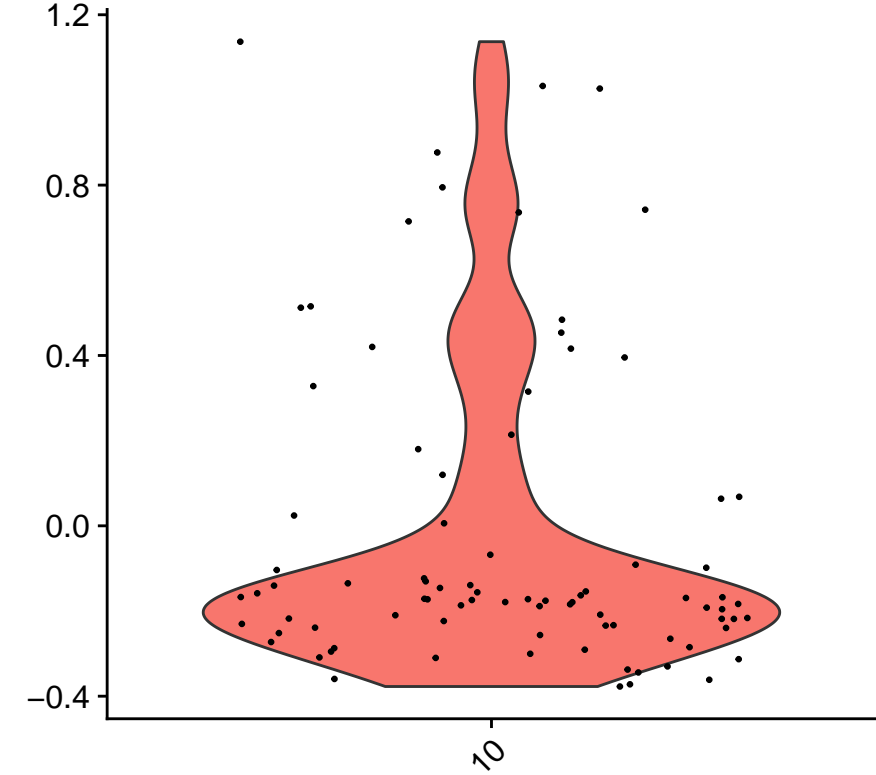
Identity

MPP_score1



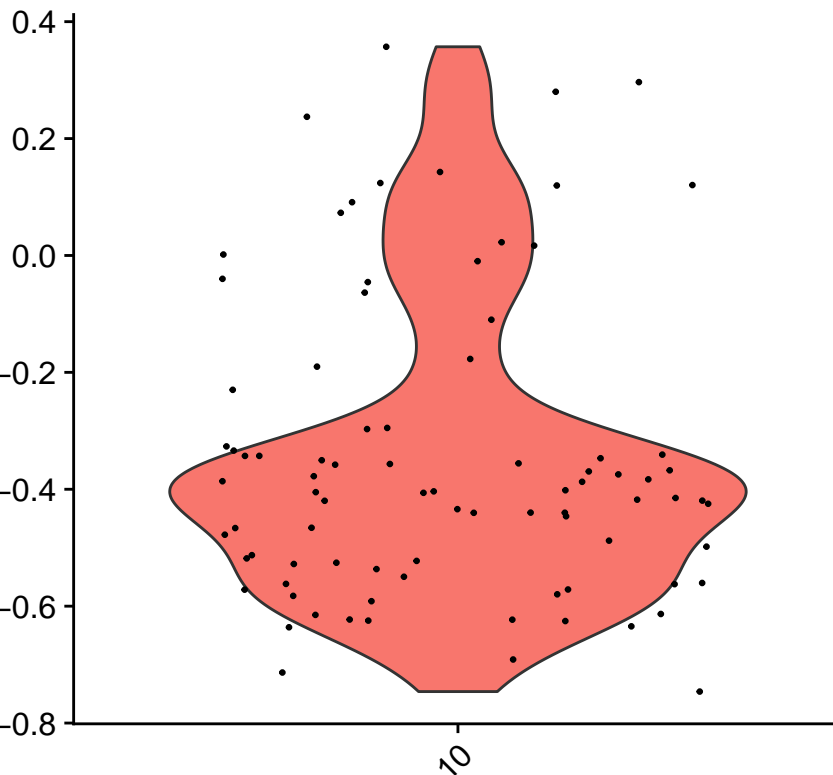
Identity

CMP_score1



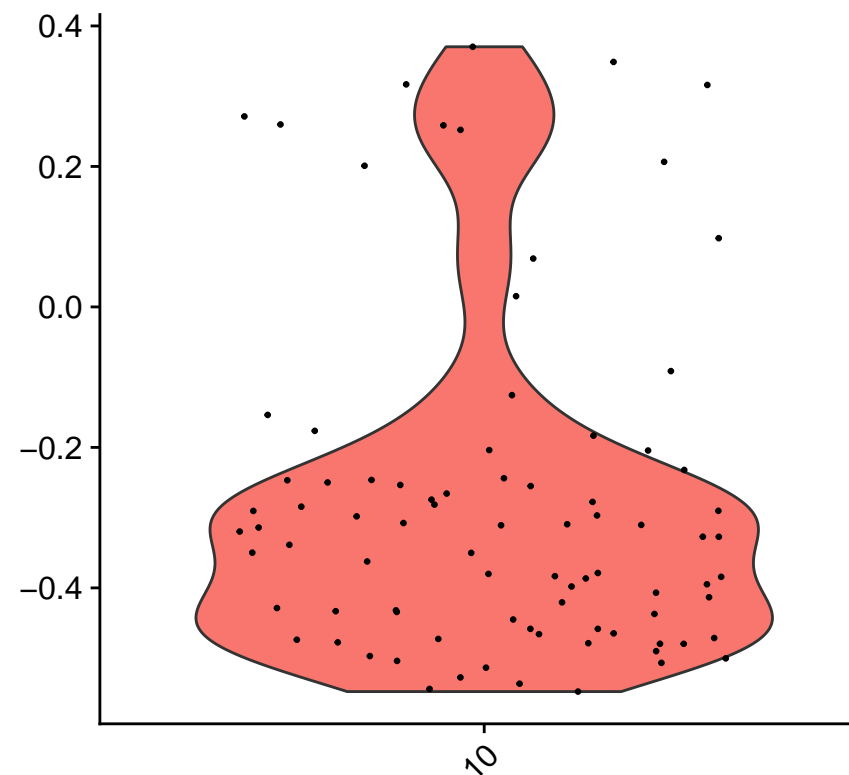
Identity

GMP_score1

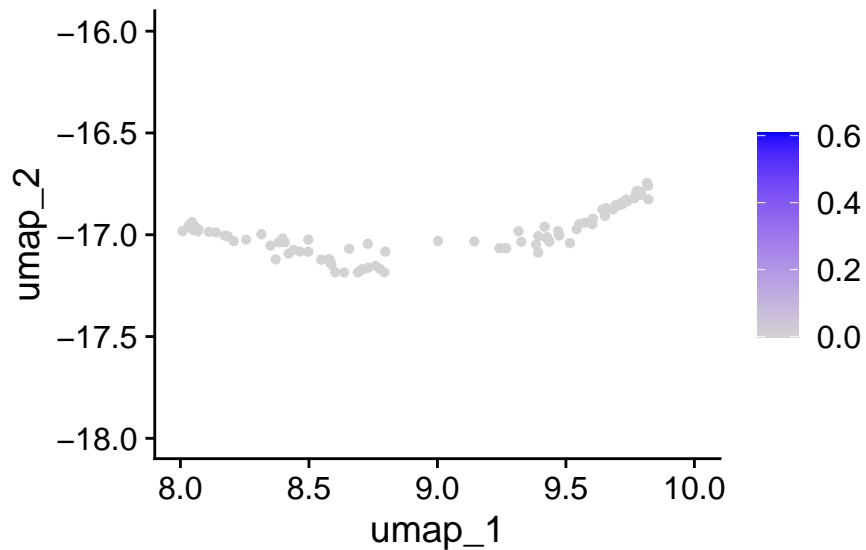
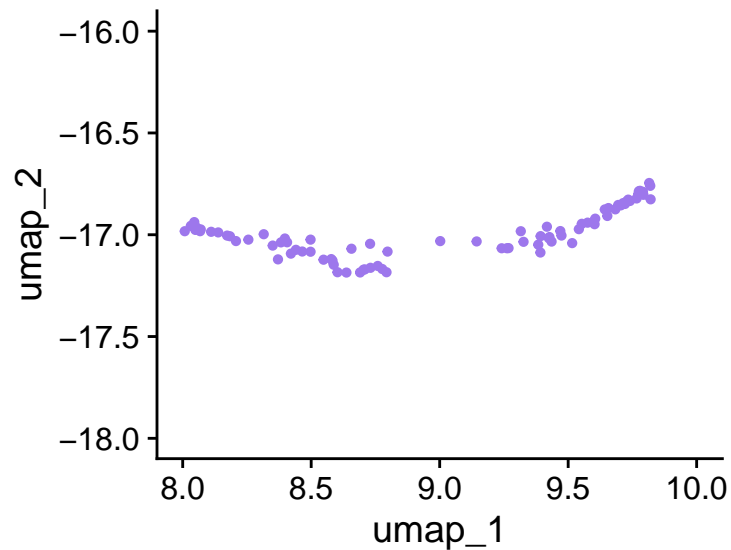
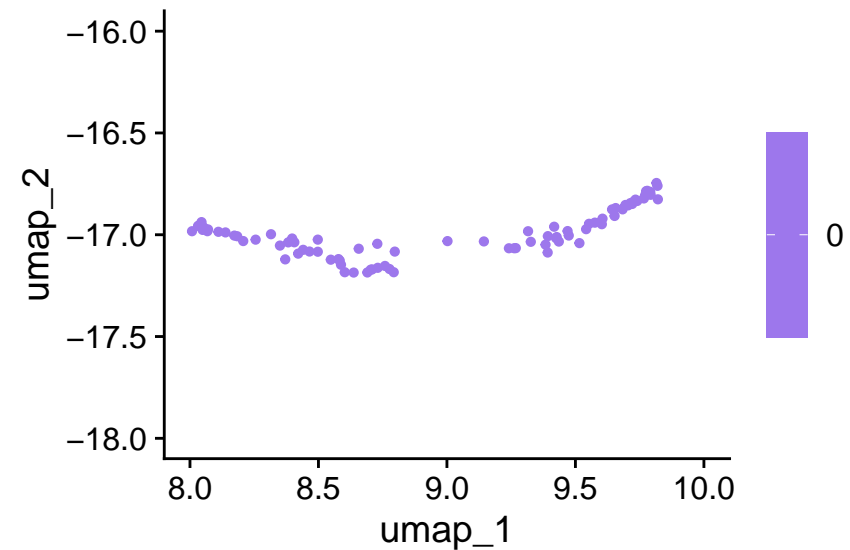
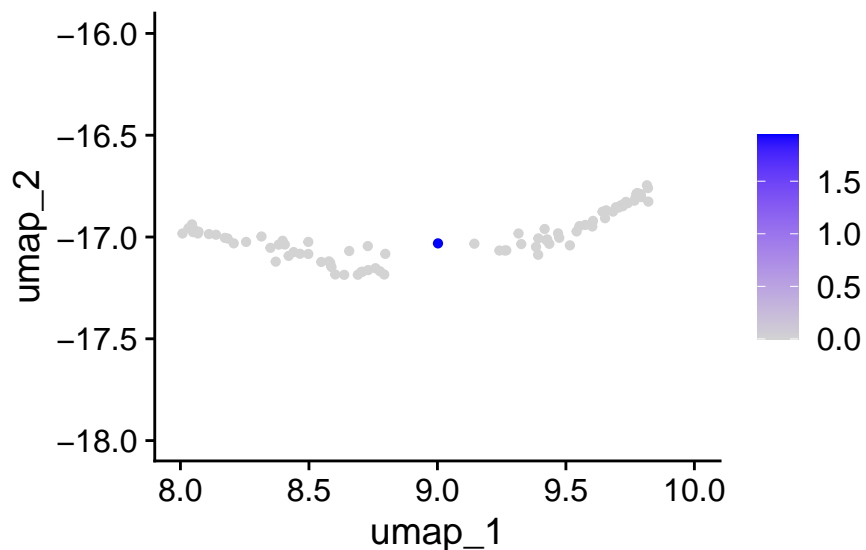
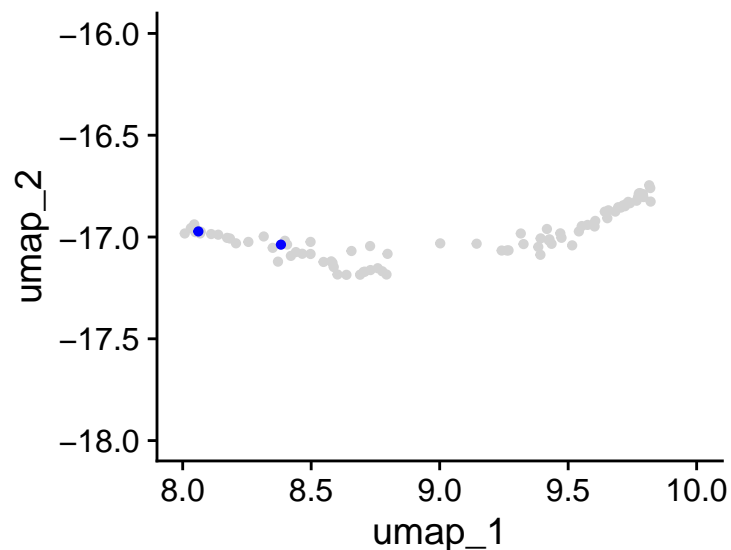
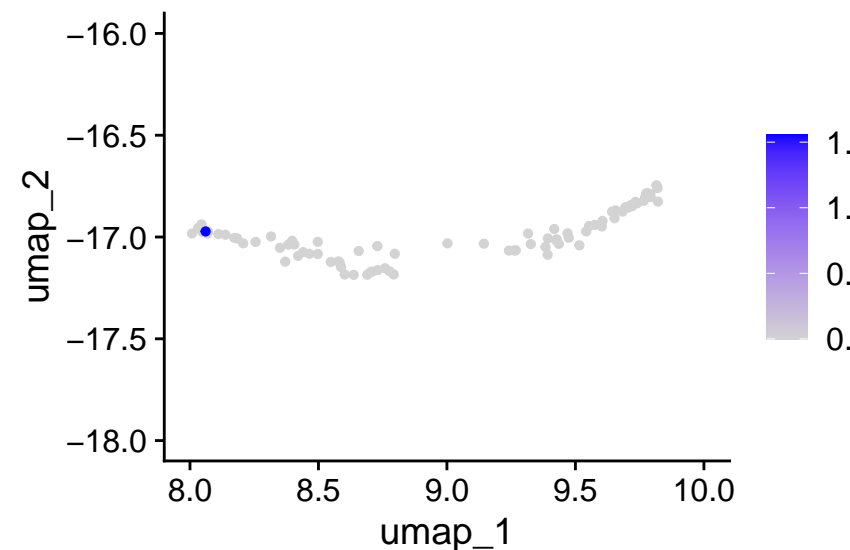
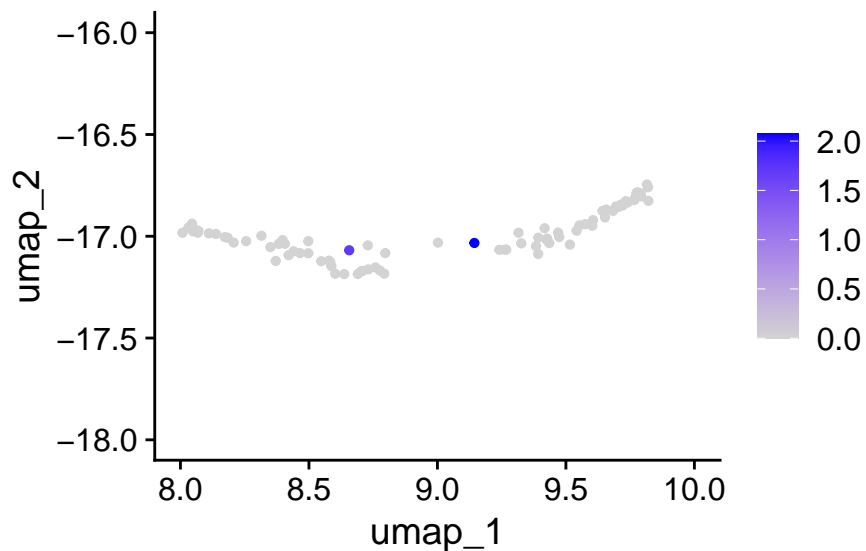


Identity

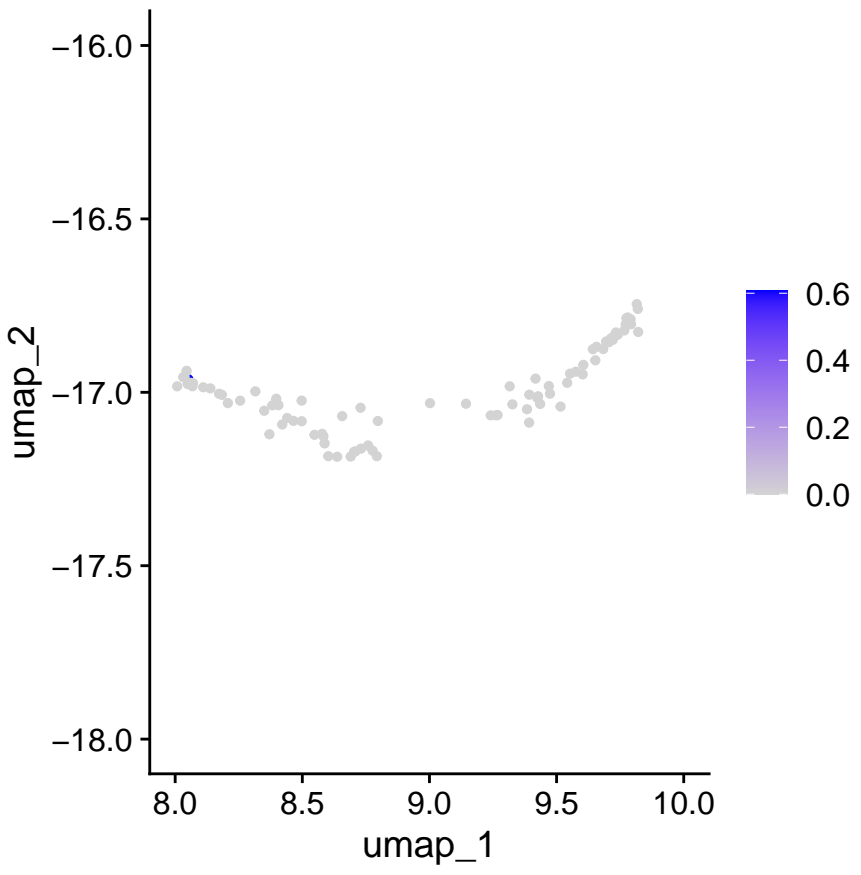
Diff_score1



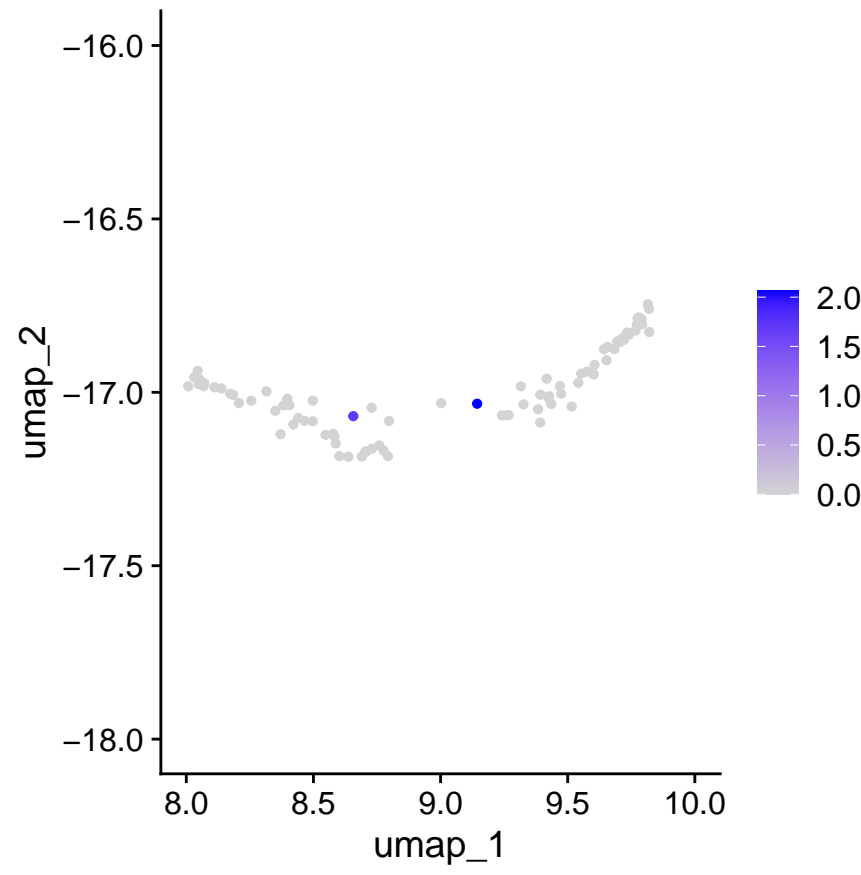
Identity

HSC: CD34**HSC: AVP (0)****HSC: PROM1 (0)****HSC: MEIS1****HSC: GATA2****HSC: HOXA9****HSC: FLT3**

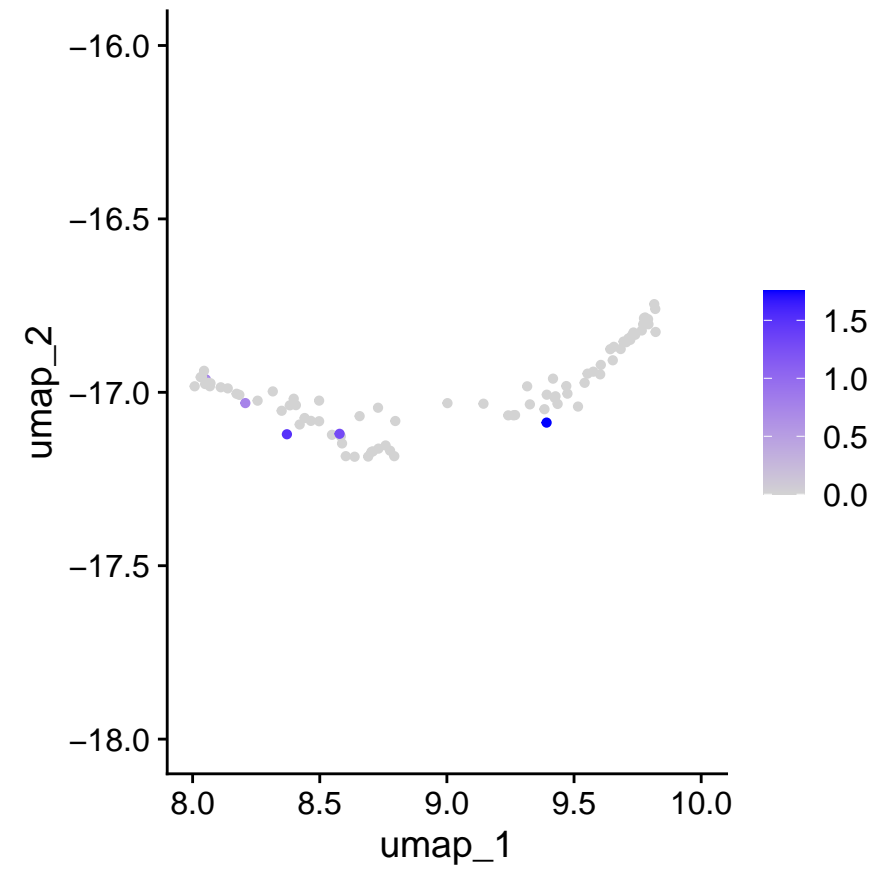
MPP: CD34



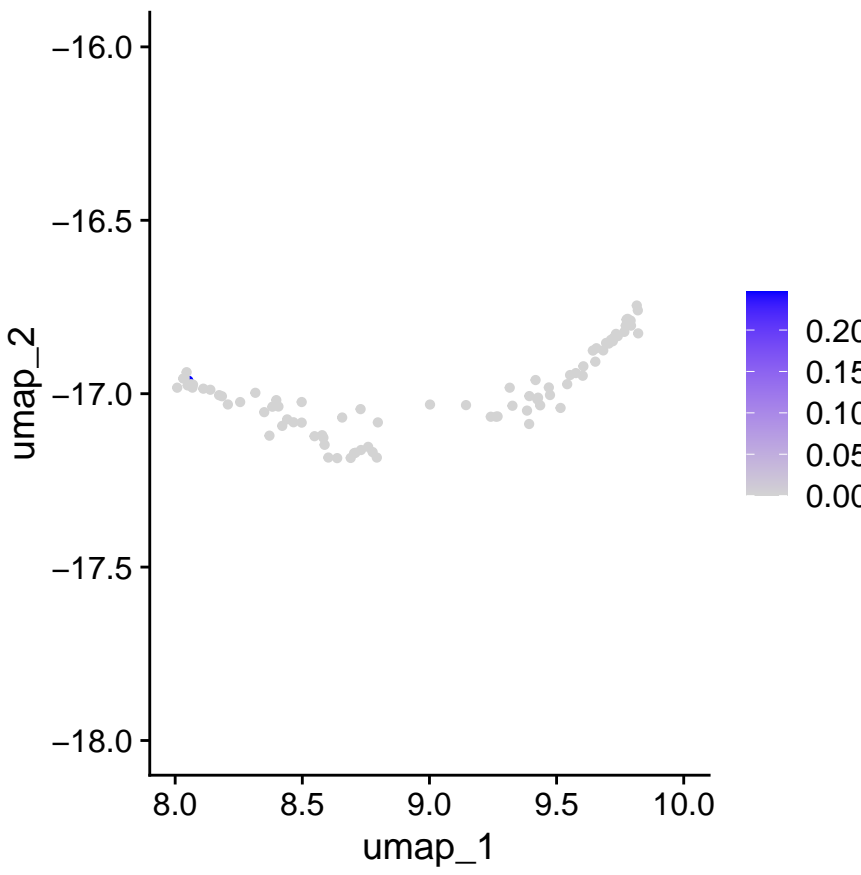
MPP: FLT3



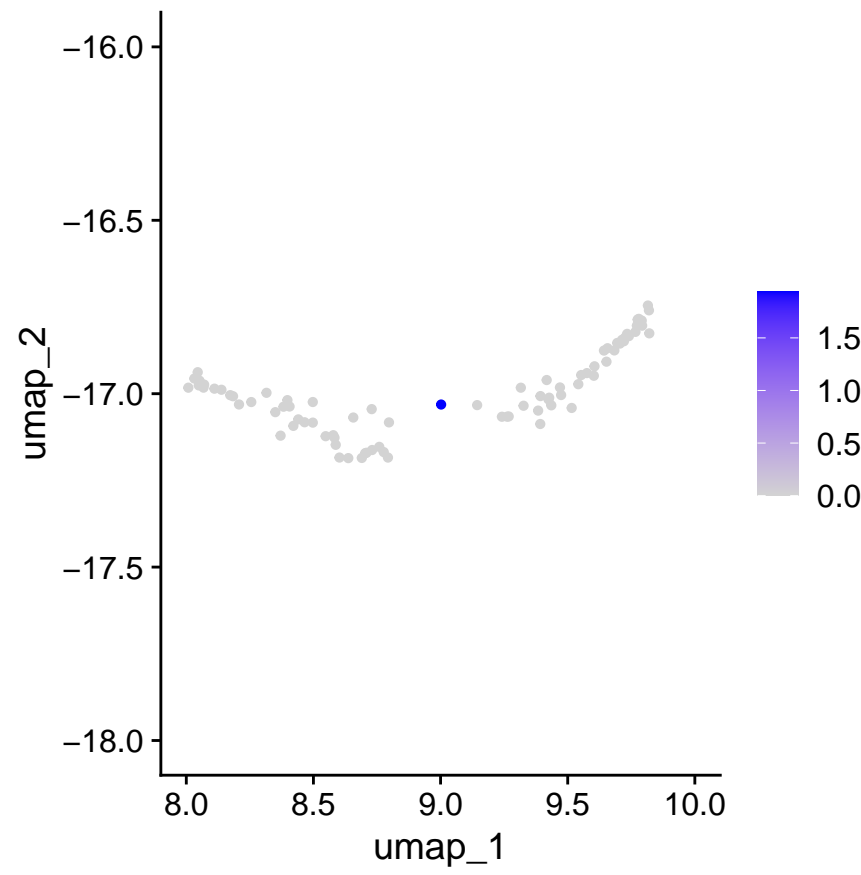
MPP: KIT



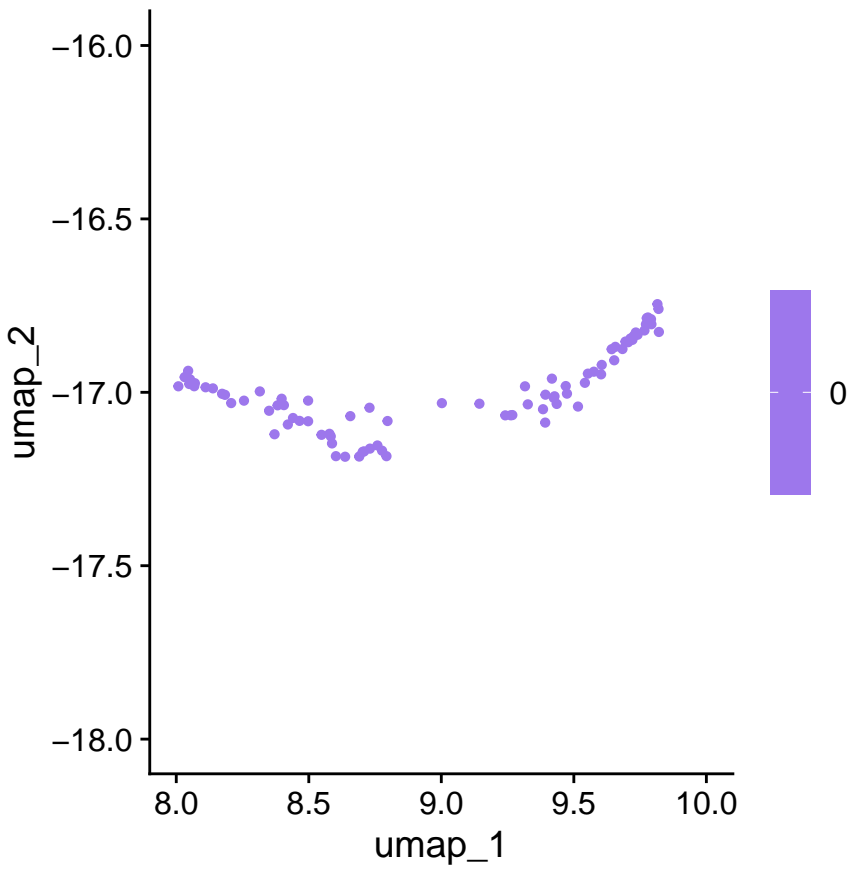
MPP: CD38



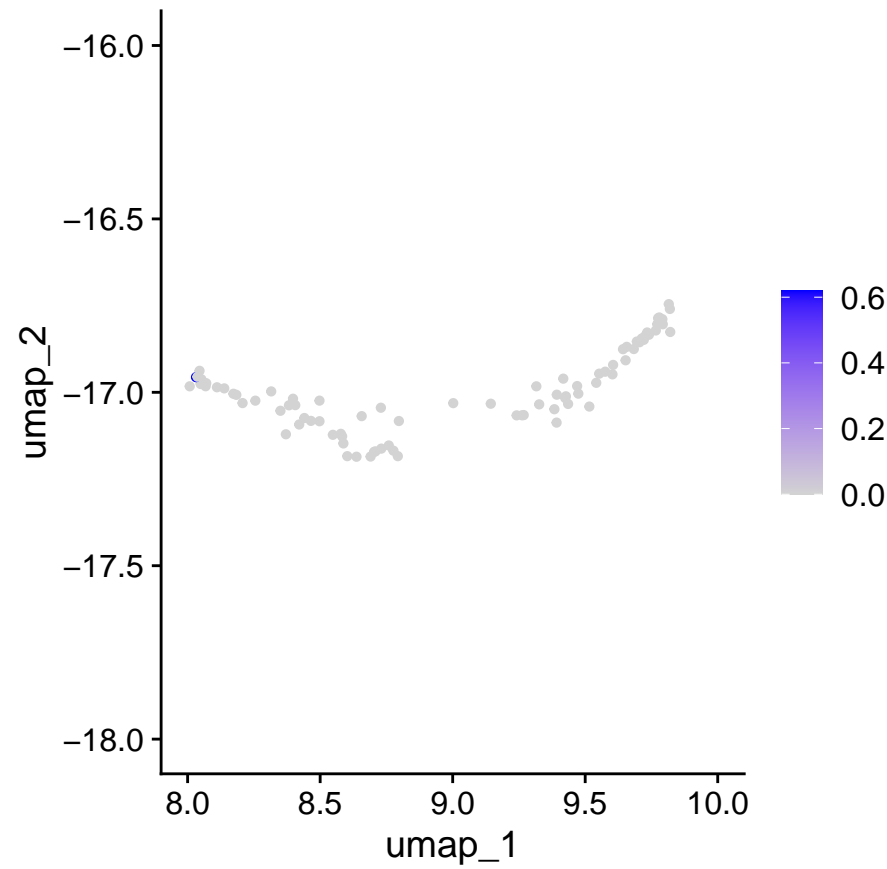
MPP: SOX4



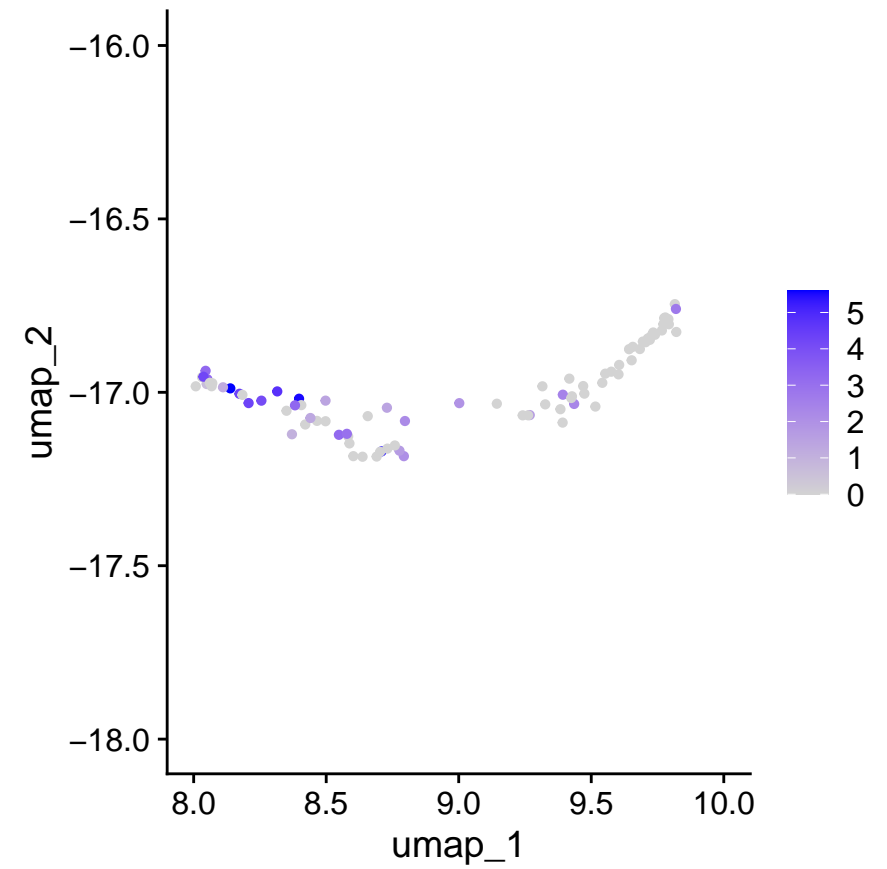
CMP: IL3RA (0)



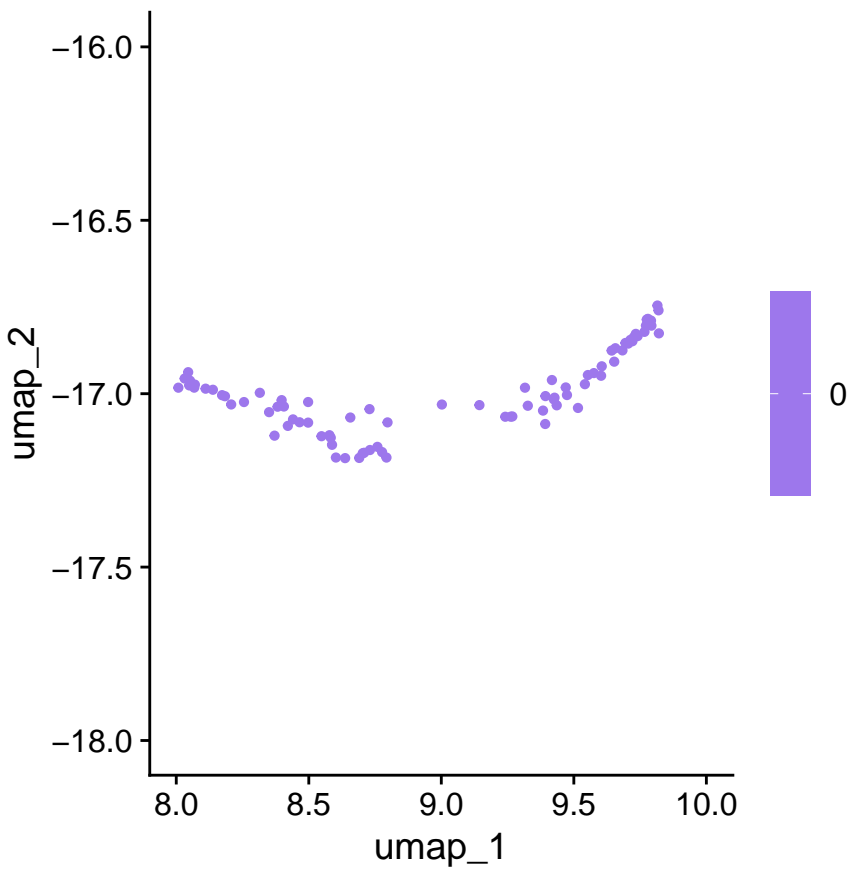
CMP: GATA1

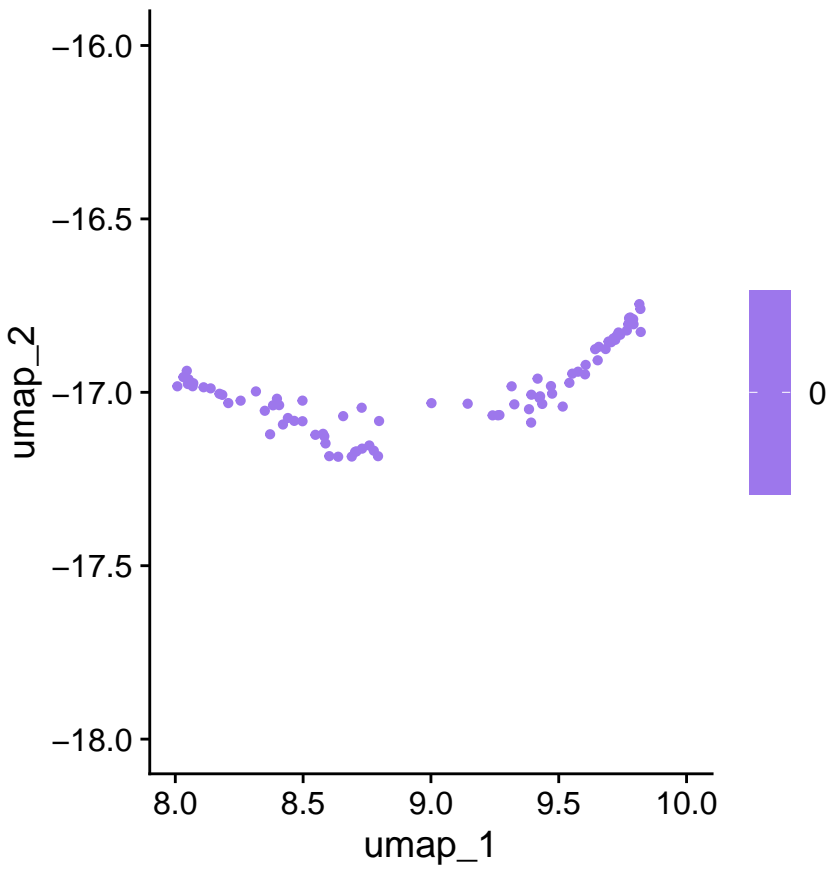
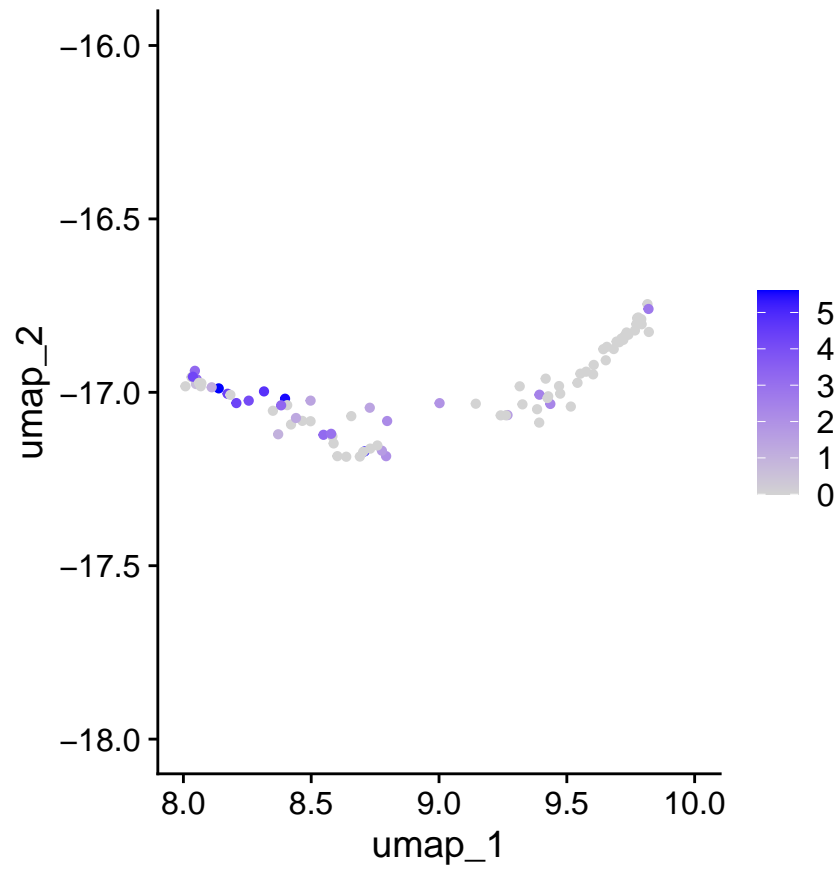
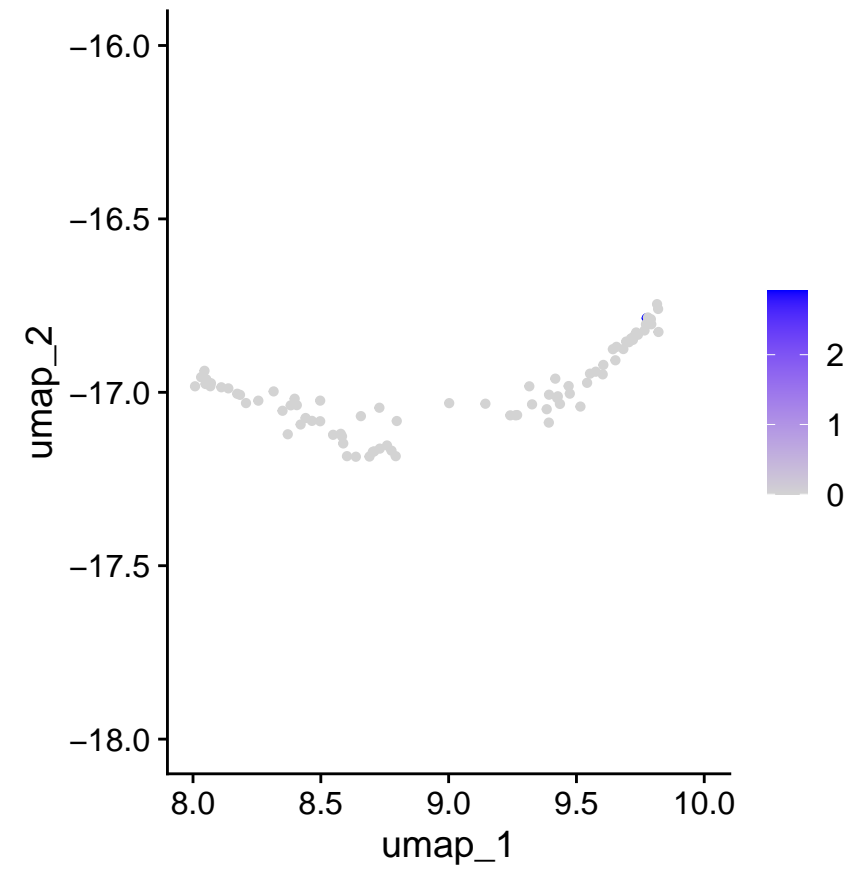
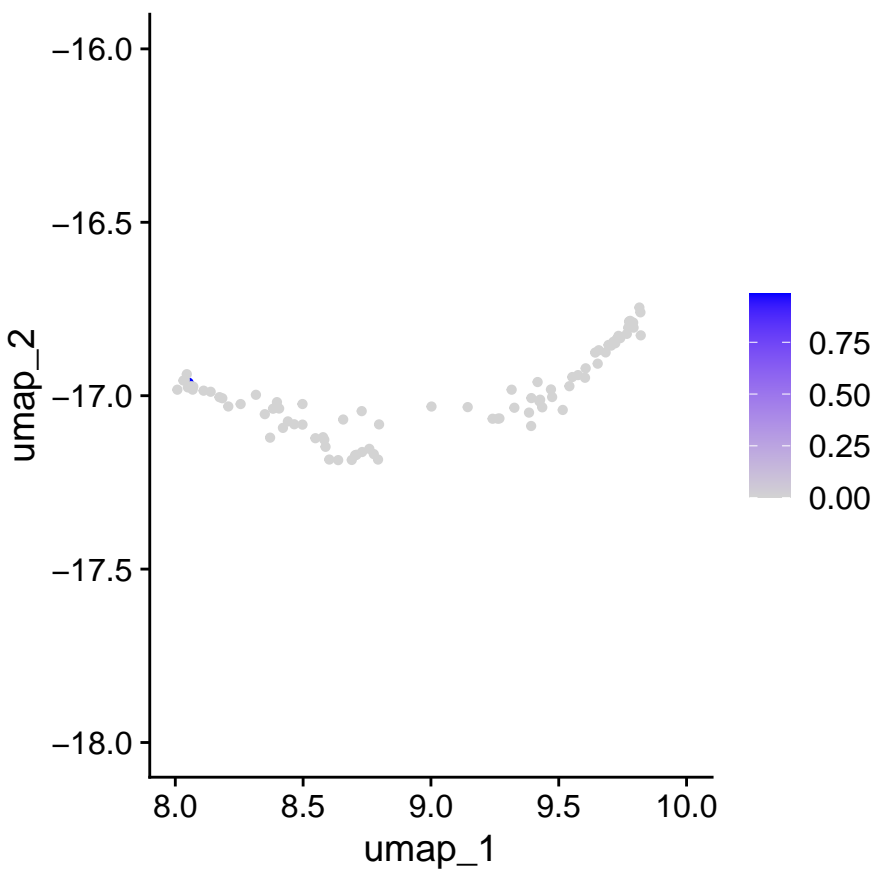
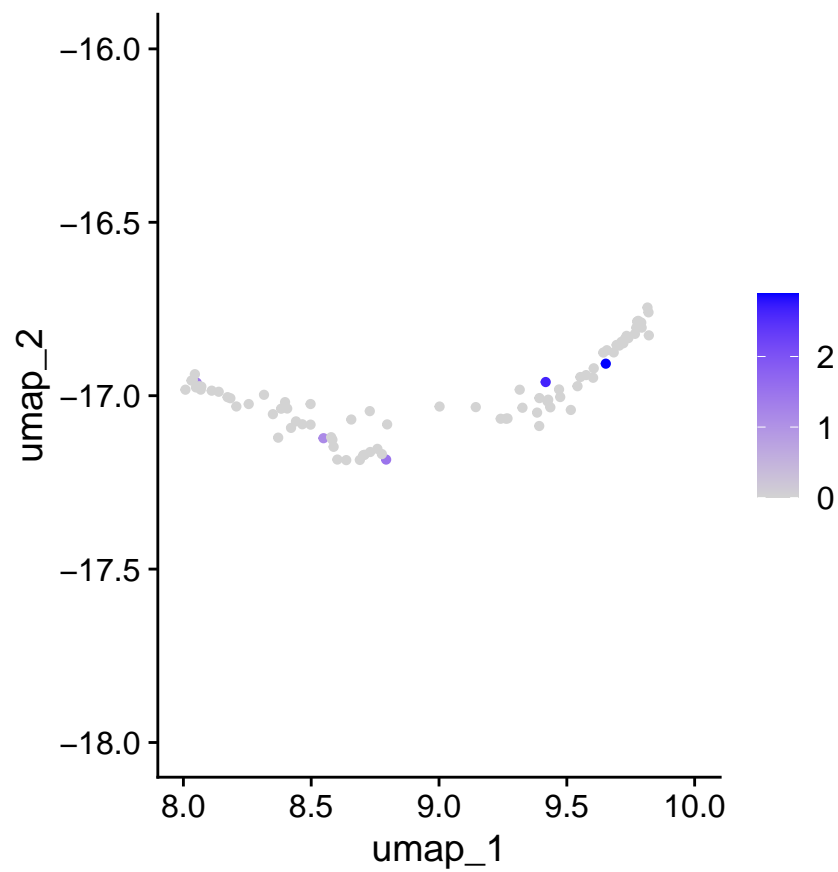
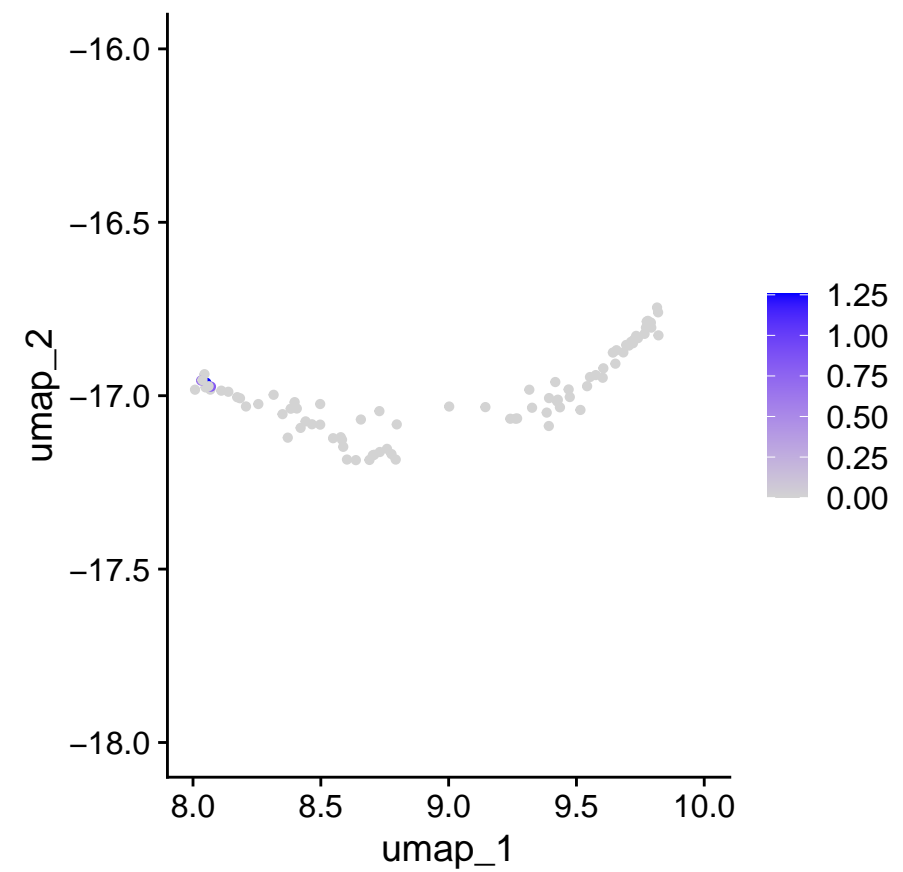


CMP: MPO

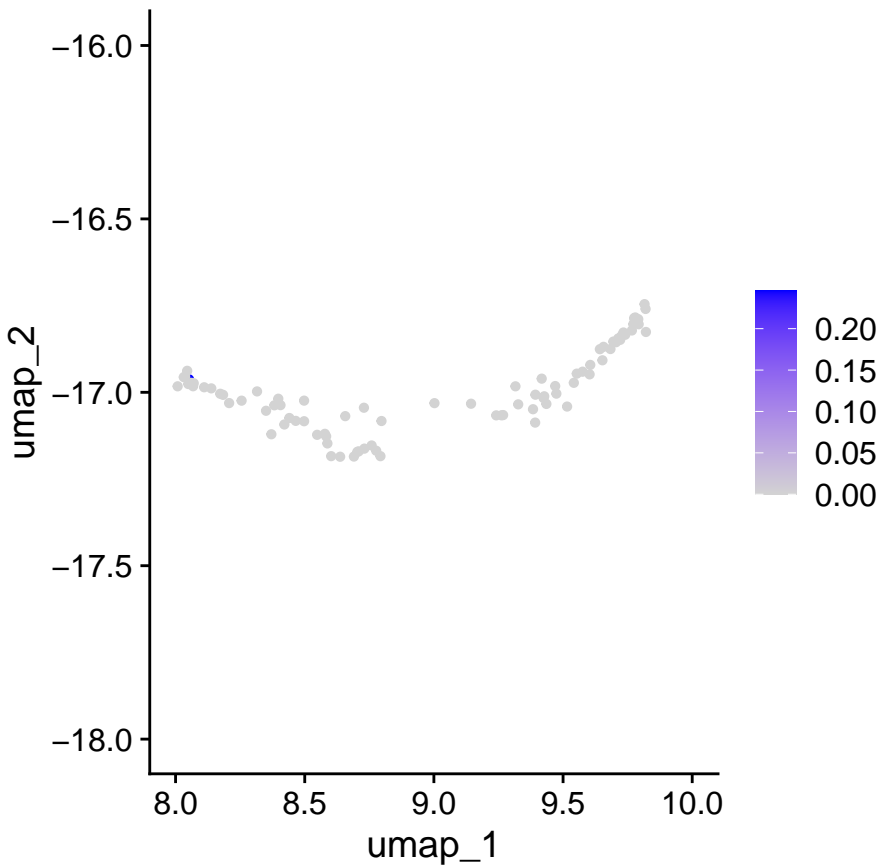


CMP: CEBPA (0)

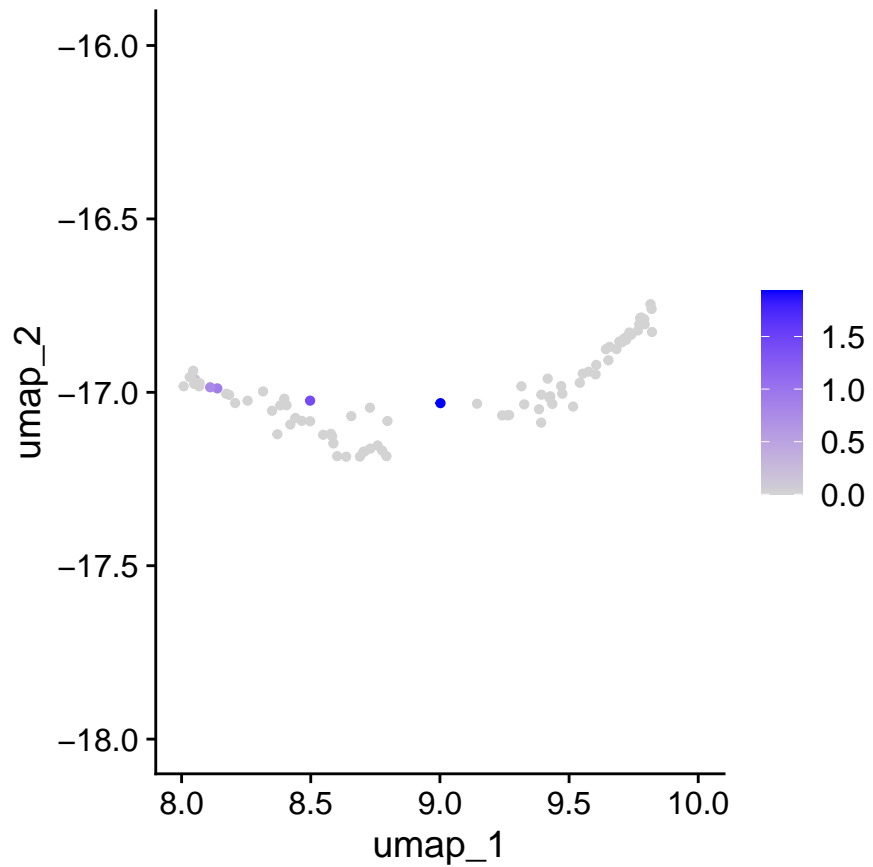


GMP: CEBPA (0)**GMP: MPO****GMP: ITGAM****GMP: CSF3R****GMP: ELANE****GMP: AZU1**

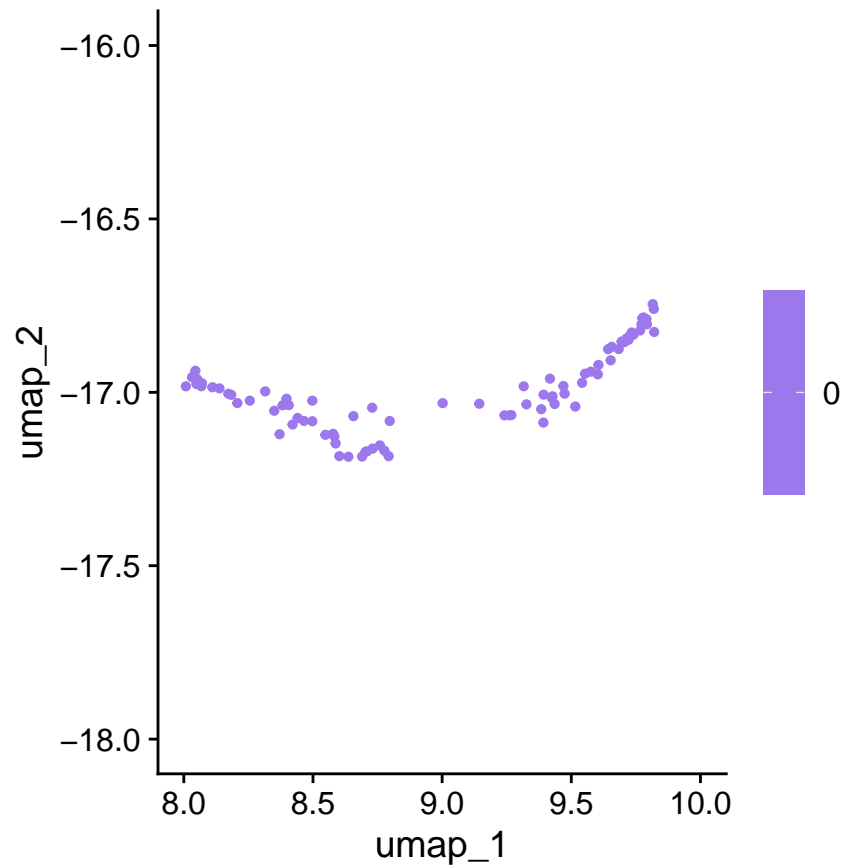
Diff: CD14



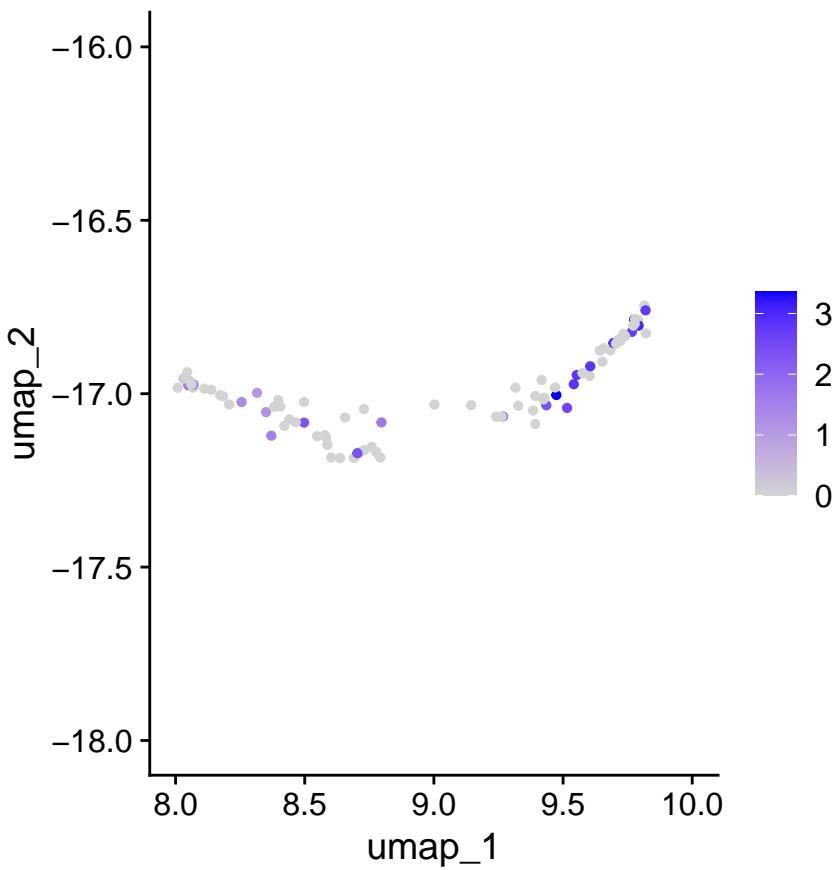
Diff: CD68



Diff: ITGAX (0)



Diff: S100A9



Diff: FCGR3A (0)

