FIG. 1

Plate Laminin Coated – 12 Well [2/12]

X	X		

Plate Laminin Coated – 12 Well [6/12]

X	X		
X	X		
X	X		

Plate Laminin Coated – 6 Well [2/6]

X		
X		

Plate Laminin Coated – 6 Well [3/6]

X	X	X

Plate Laminin Coated – 6 Well [4/6]

X	X	
X	X	

FIG. 2

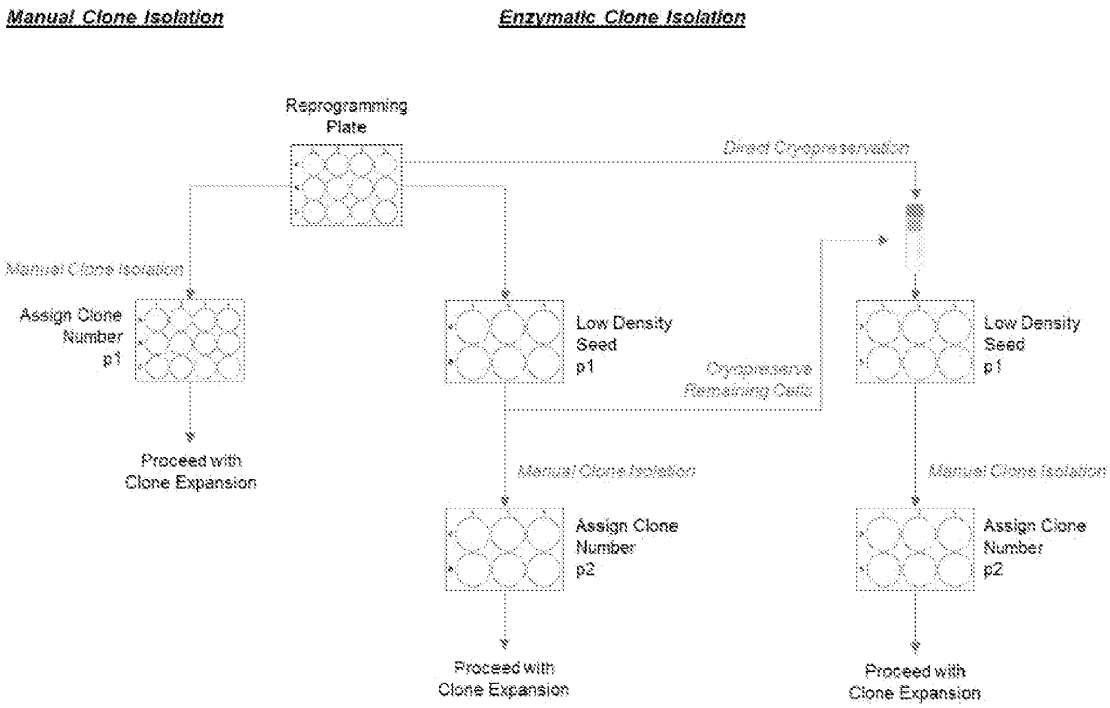
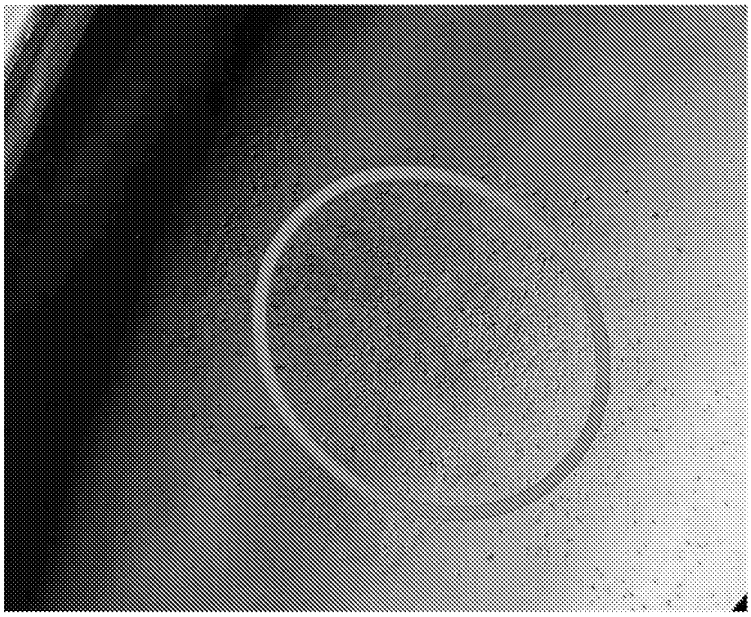

Manual Clone Isolation
Enzymatic Clone Isolation
Reprogramming Plate
Direct Cryopreservation
Manual Clone Isolation
Assign Clone Number p1
Proceed with Clone Expansion
Low Density Seed p1
Cryopreserve Remaining Cells
Low Density Seed p1
Manual Clone Isolation
Manual Clone Isolation
Assign Clone Number p2
Assign Clone Number p2
Proceed with Clone Expansion
Proceed with Clone Expansion

FIG. 3A



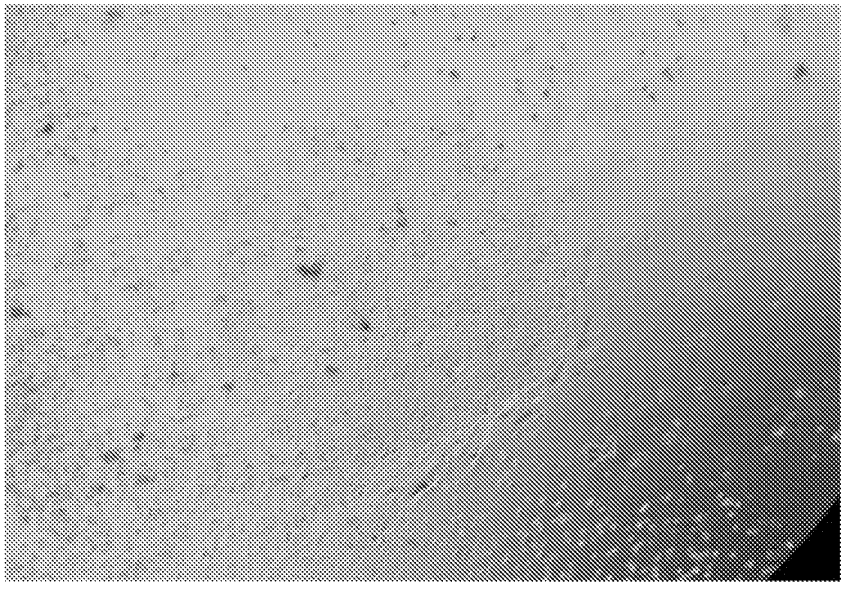


FIG. 3B



FIG. 3C

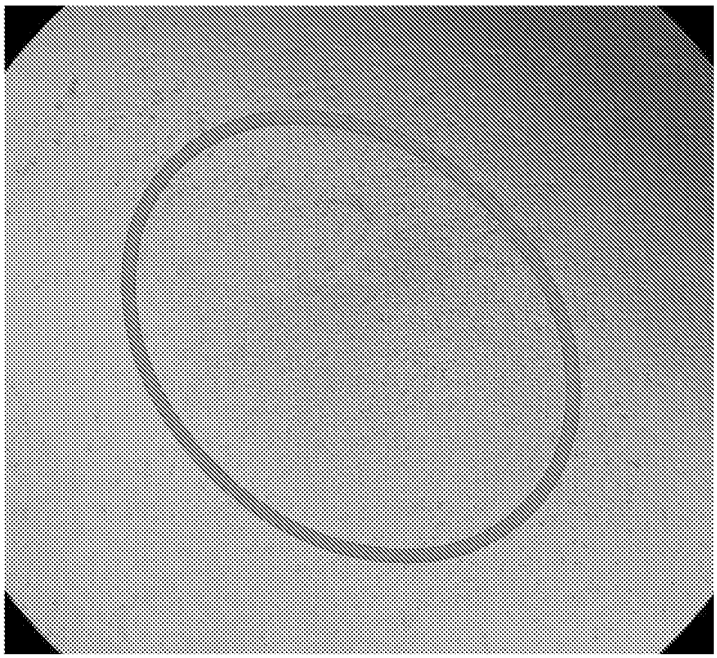


FIG. 4A

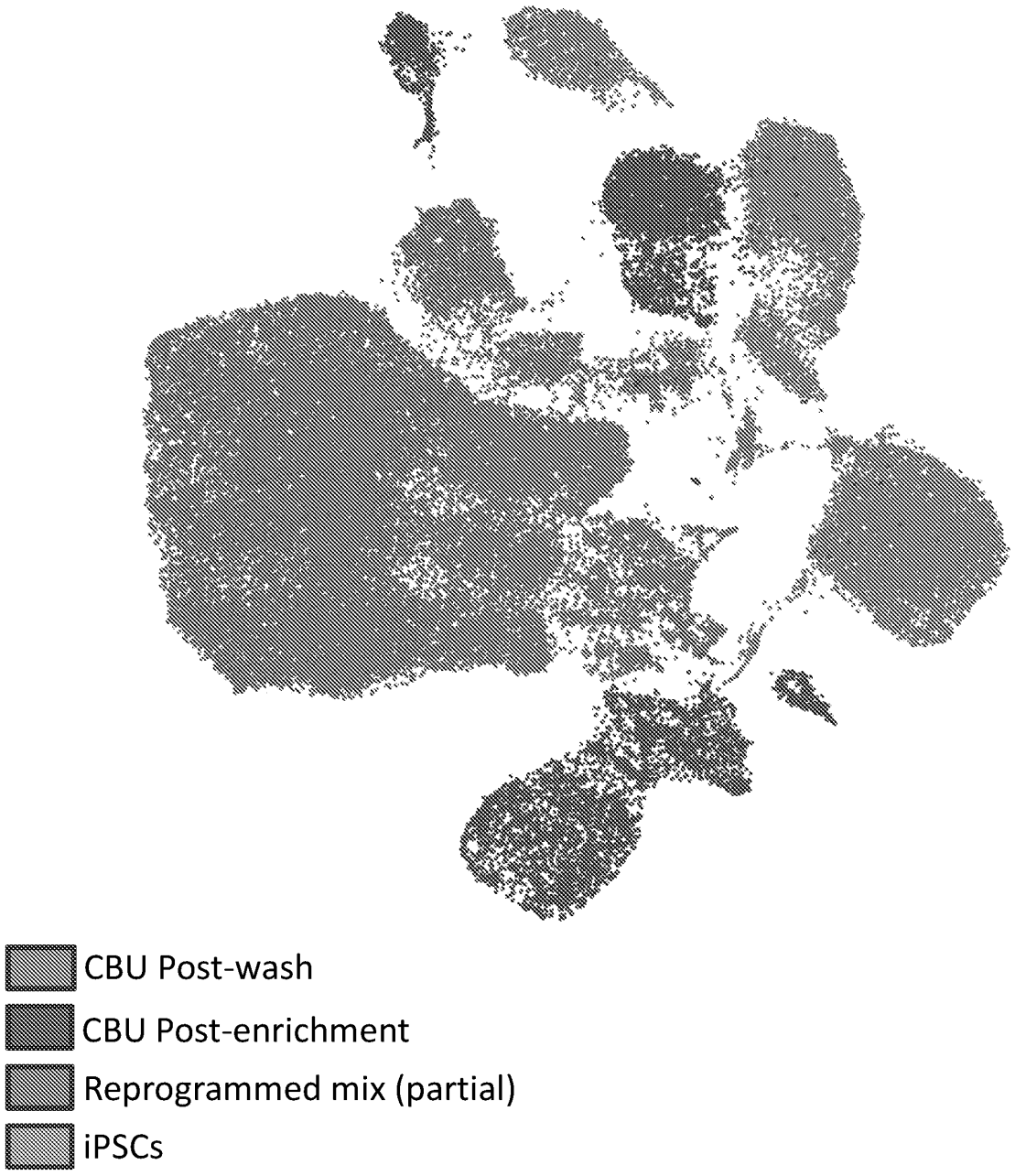

CBU Post-wash
CBU Post-enrichment
Reprogrammed mix (partial)
iPSCs

FIG. 4B

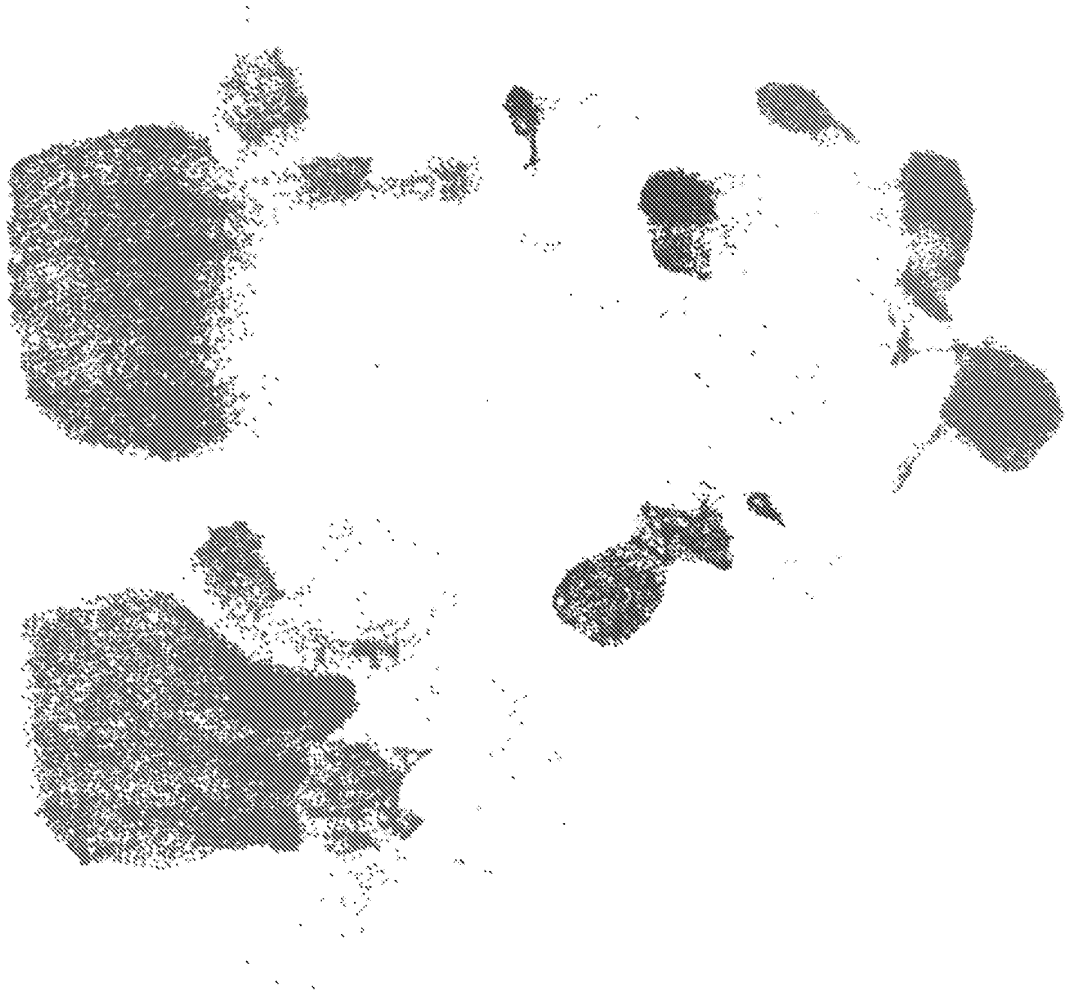

CBU_post_wash (12897)
Reprogrammed_Mix (221...
CBU_post_enrichment (8...
IPSCs (17148)

FIG. 5

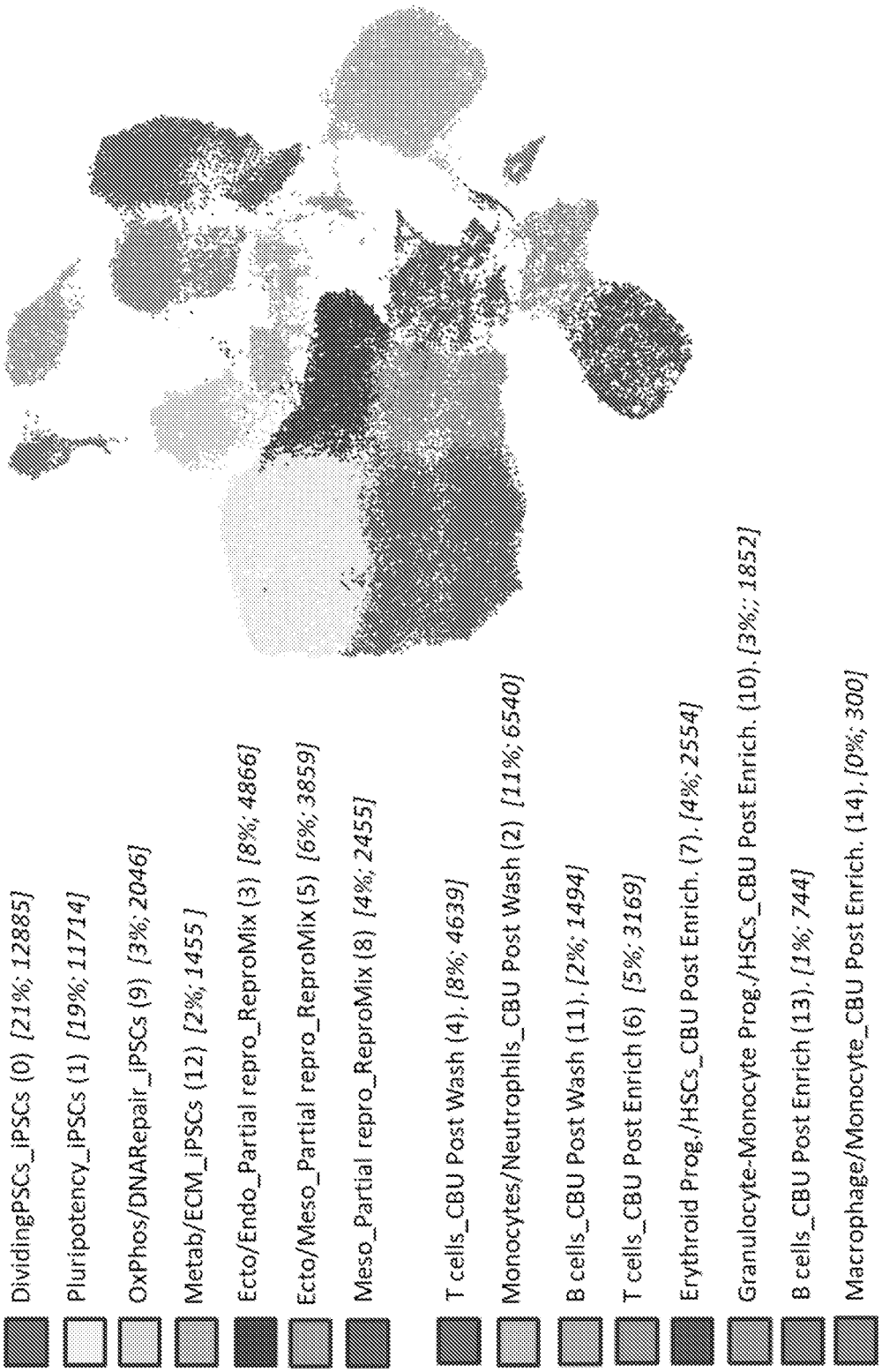
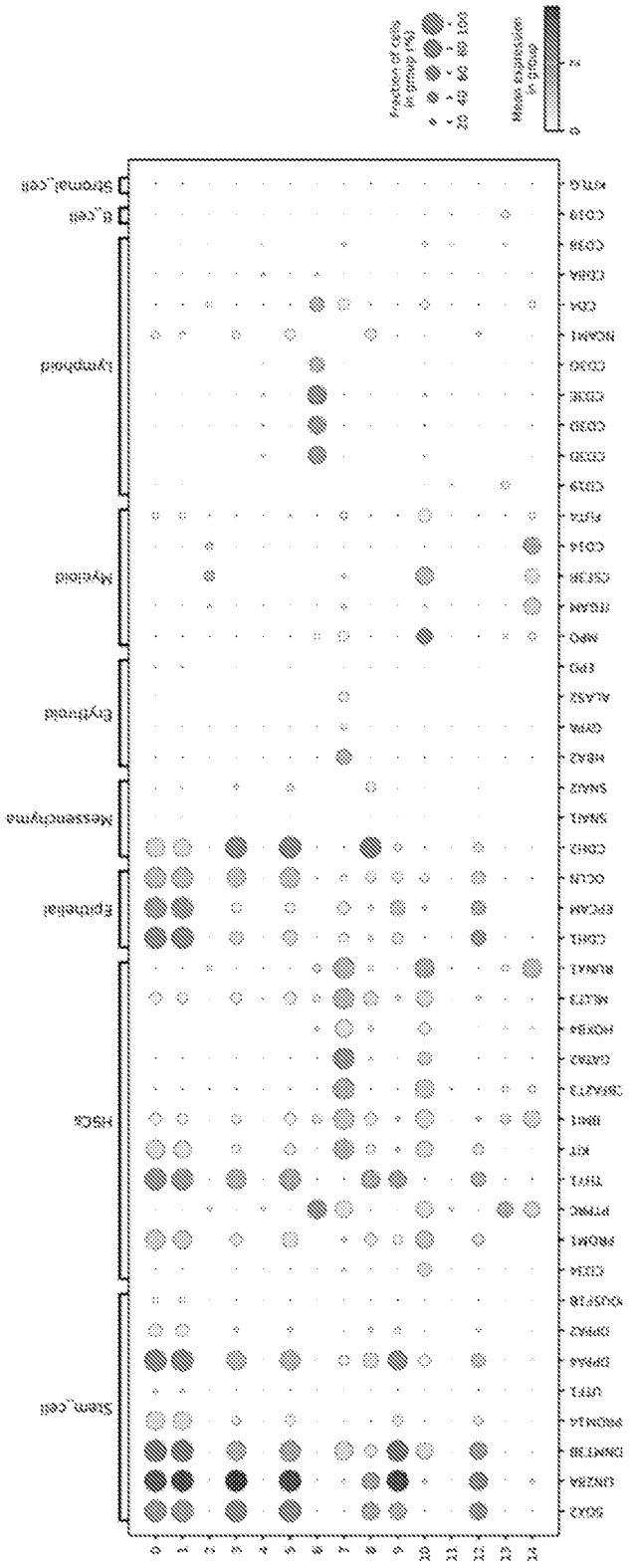

DividingPSCs_iPSCs (0) [21%; 12885]
Pluripotency_iPSCs (1) [19%; 11714]
OxPhos/DNARepair_iPSCs (9) [3%; 2046]
Metab/ECM_iPSCs (12) [2%; 1455]
Ecto/Endo_Partial repro_ReproMix (3) [8%; 4866]
Ecto/Meso_Partial repro_ReproMix (5) [6%; 3859]
Meso_Partial repro_ReproMix (8) [4%; 2455]
T cells_CBU Post Wash (4). [8%; 4639]
Monocytes/Neutrophils_CBU Post Wash (2) [11%; 6540]
B cells_CBU Post Wash (11). [2%; 1494]
T cells_CBU Post Enrich (6) [5%; 3169]
Erythroid Prog./HSCs_CBU Post Enrich. (7). [4%; 2554]
Granulocyte-Monocyte Prog./HSCs_CBU Post Enrich. (10). [3%;; 1852]
B cells_CBU Post Enrich (13). [1%; 744]
Macrophage/Monocyte_CBU Post Enrich. (14). [0%; 300]

FIG. 6


Stem_cell
HSCs
Erythroid
Megakaryocyte
Myeloid
Lymphoid
B_cell
Stromal_cell
SOX2
GNG2S
DNGT3B
PRDM14
UTF1
DPPA4
DPPA2
POU5F1B
CDX4
PRDM1
PTPRC
THY1
KIT
BMI1
ZBTB32
CXCR4
MKI67
ROR1A
CD82
CD81
EPCAM
OCLN
CD63
SV40
SV41
SV42
HBA2
GYPA
KLF1
EPO
MPO
ITGAM
CSF3R
CD14
FCGR
CD19
CD38
CD34
CD33
CD3E
CD3D
NCAM1
CDX
CD8A
CD4
KRAS
Mean expression across groups
Fraction of cells in group (%)

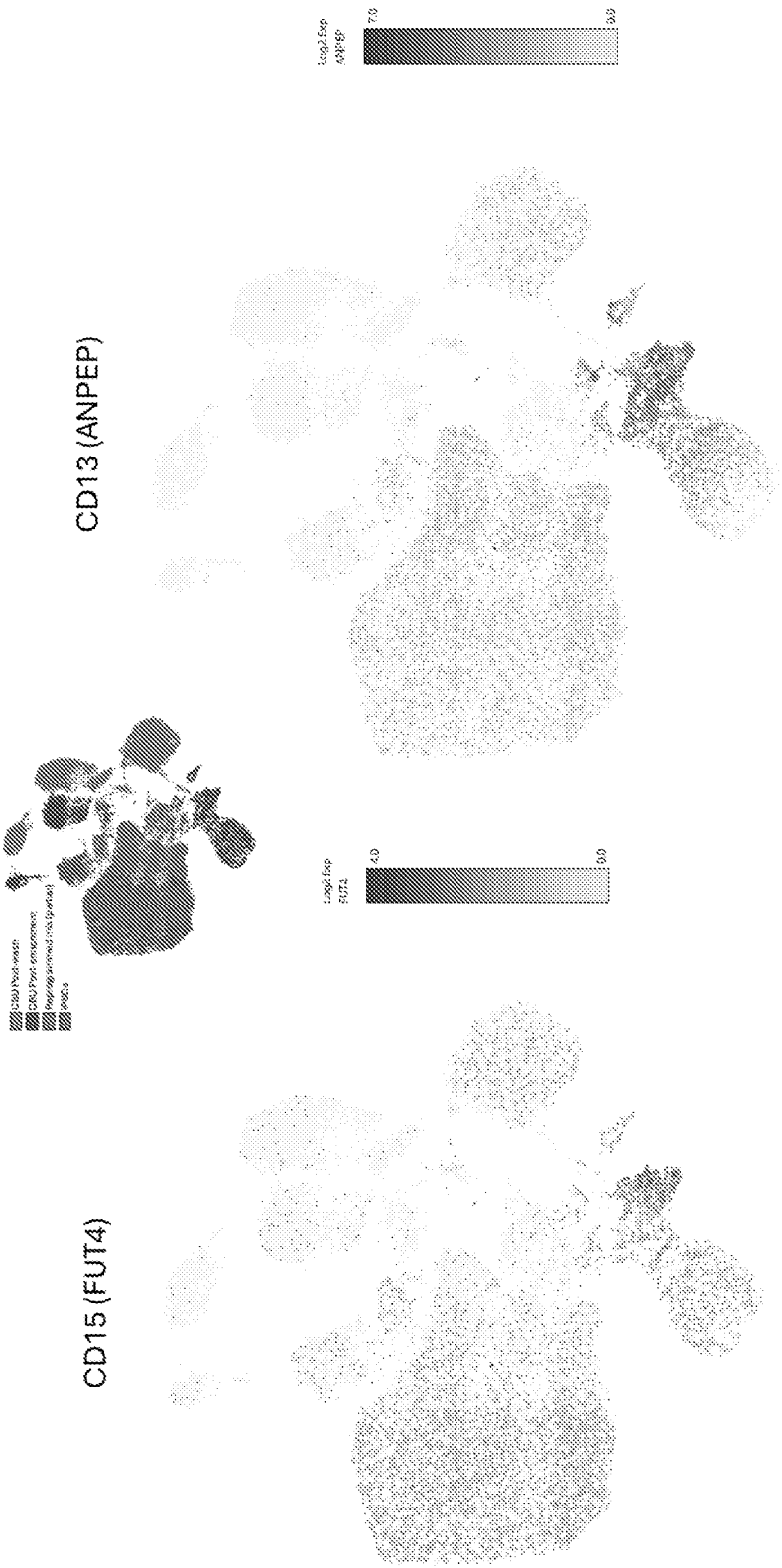


FIG. 7

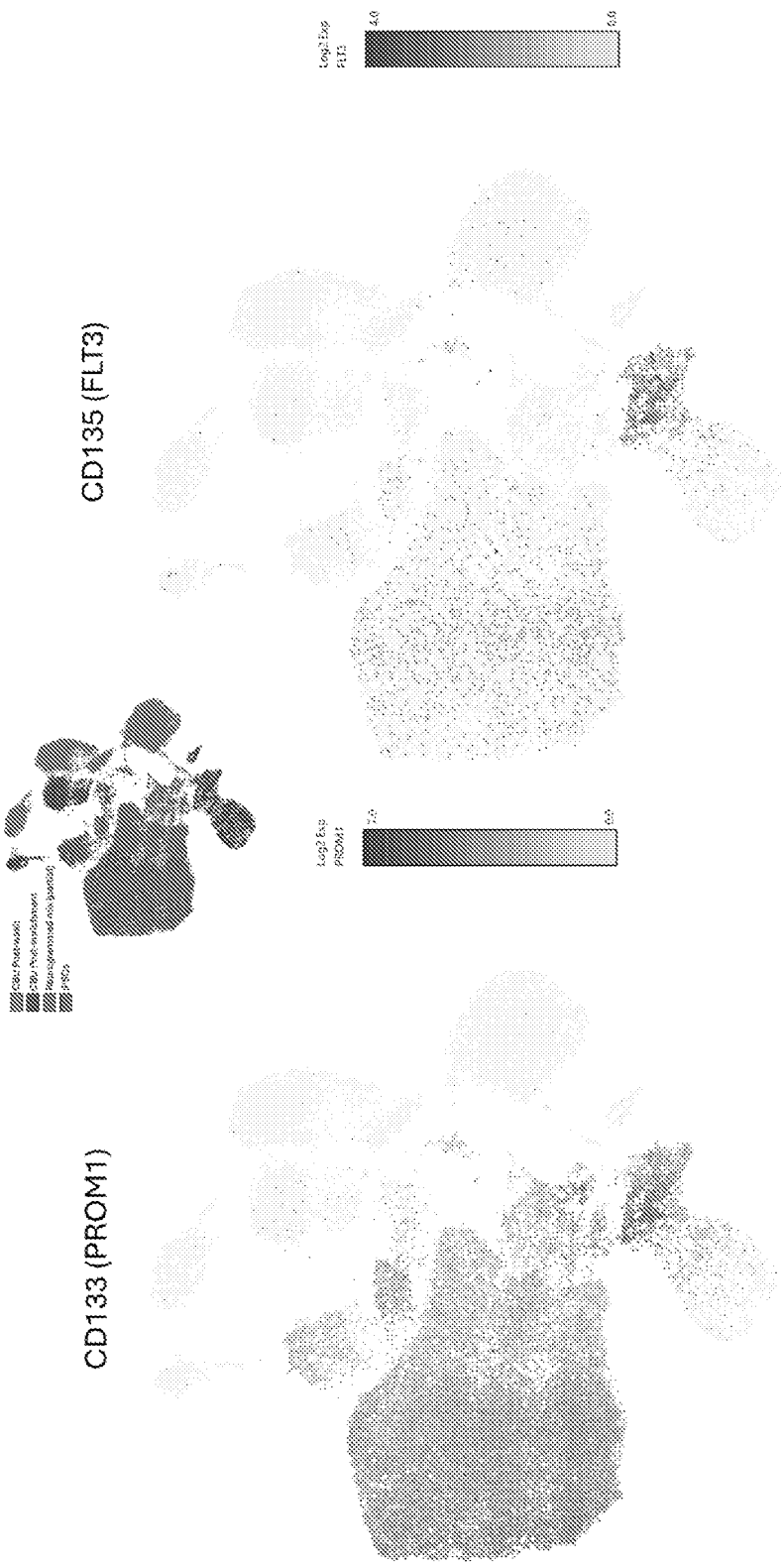


FIG.8



FIG. 9

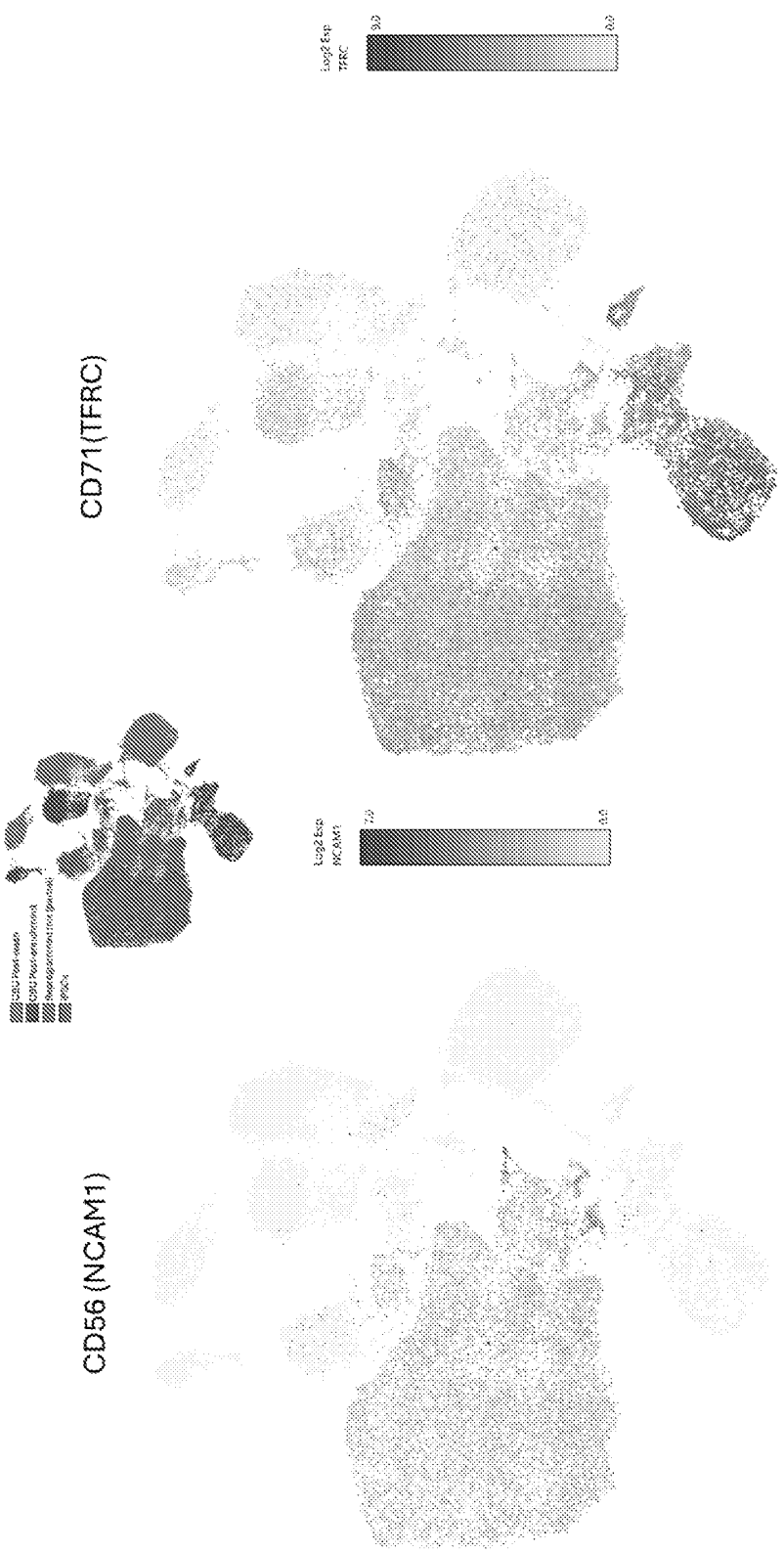


FIG. 10



FIG. 11

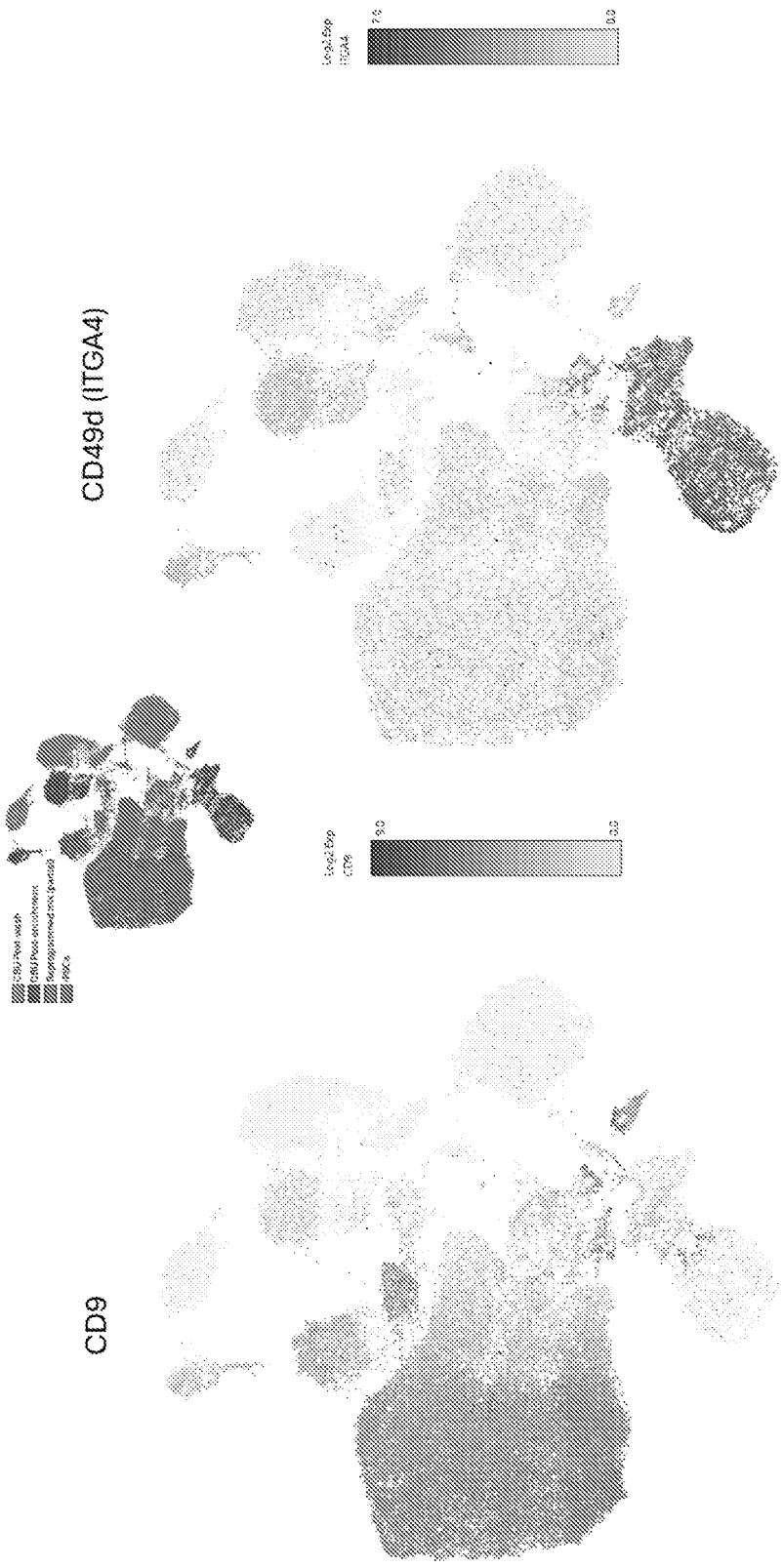


FIG. 12

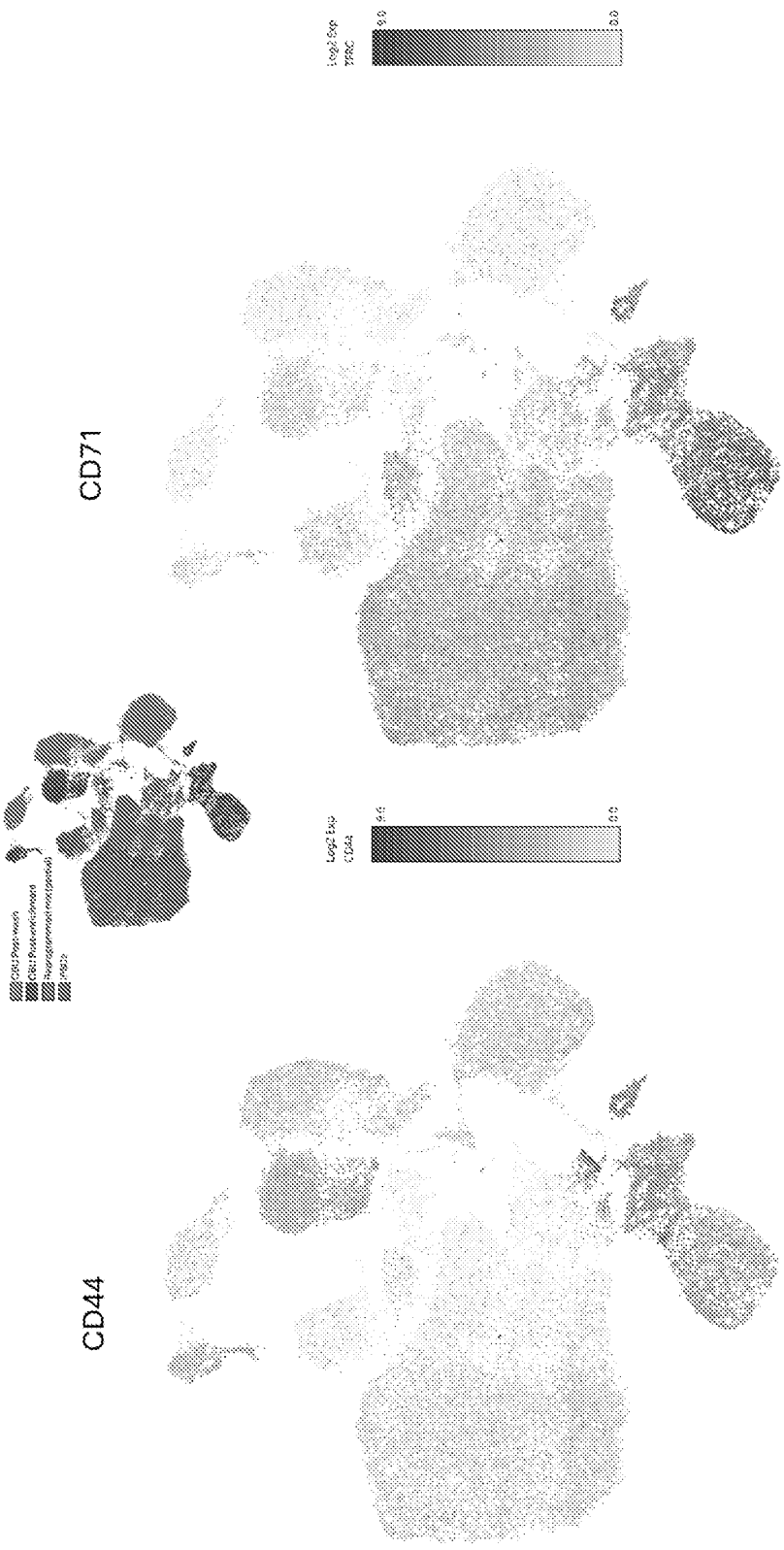


FIG. 13



FIG. 14

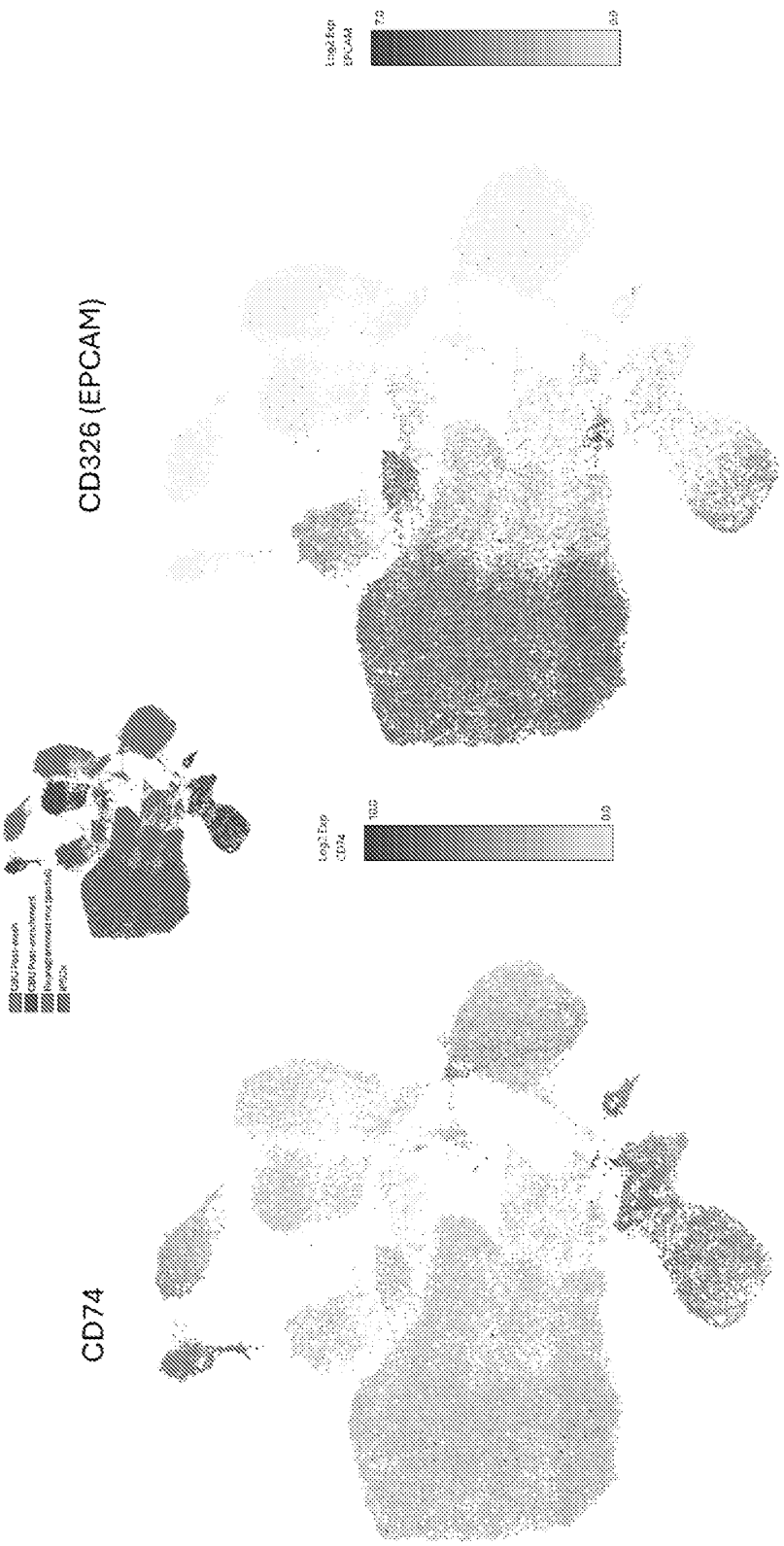


FIG. 15

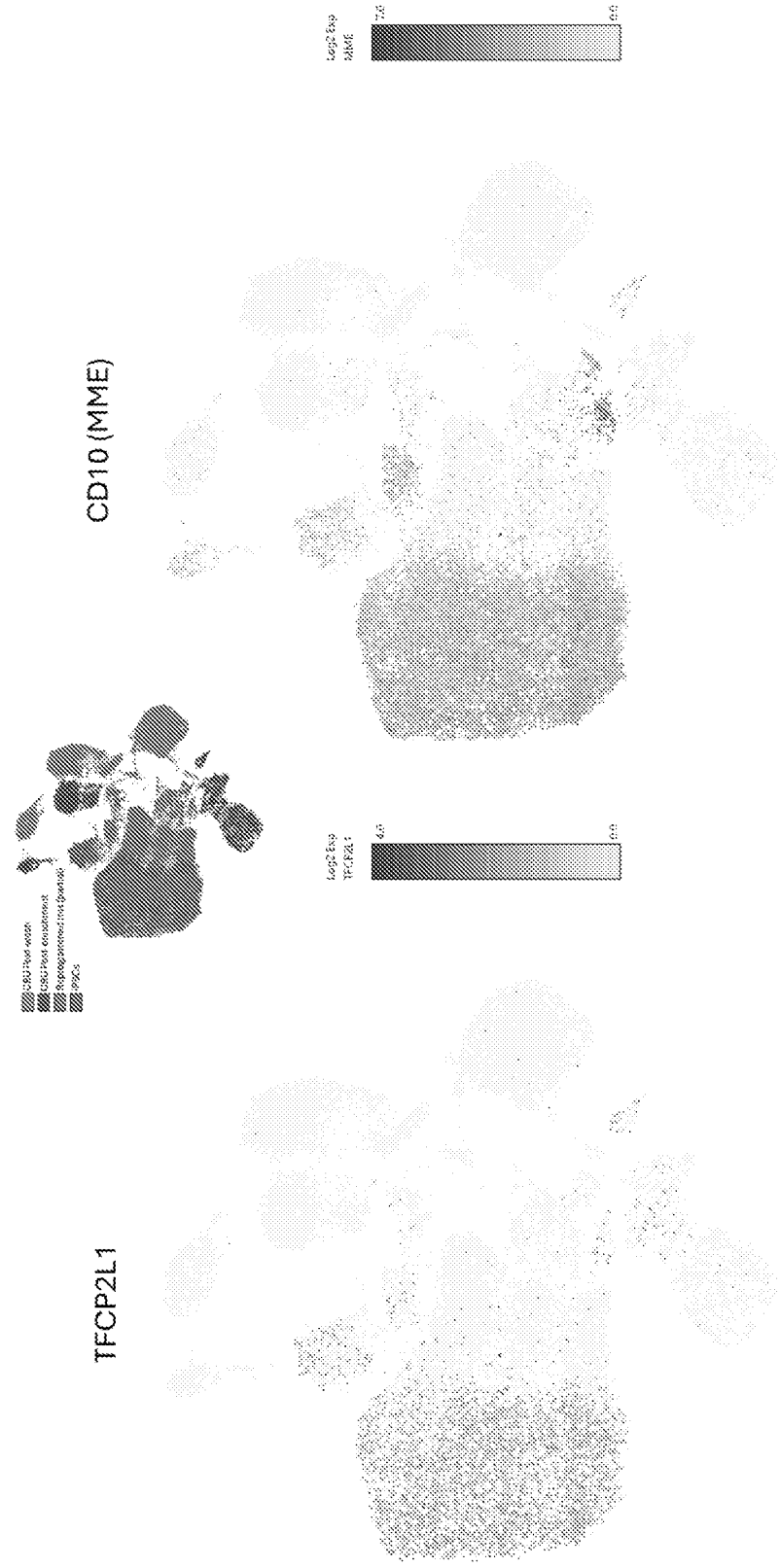


FIG. 16

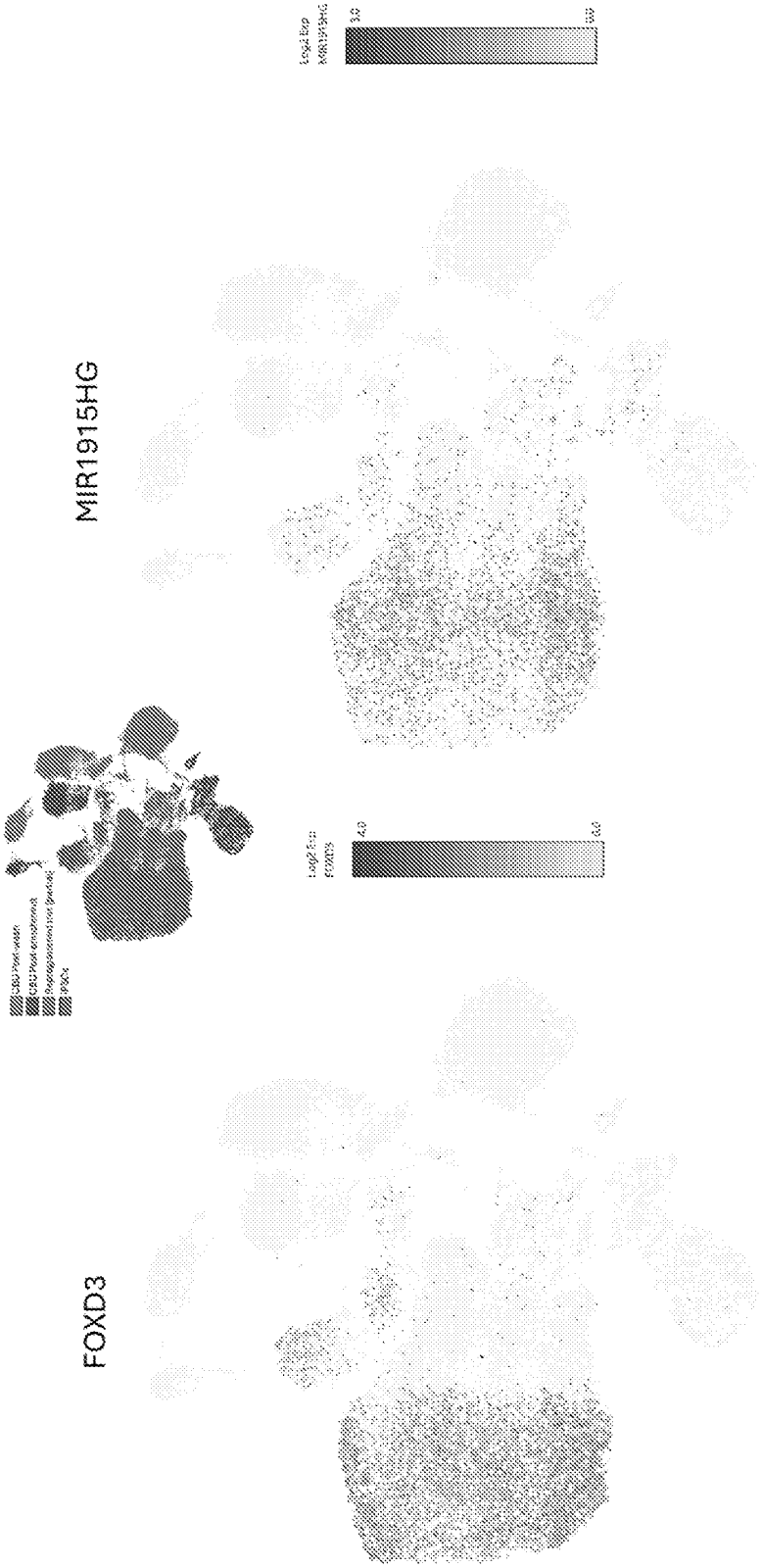


FIG. 17

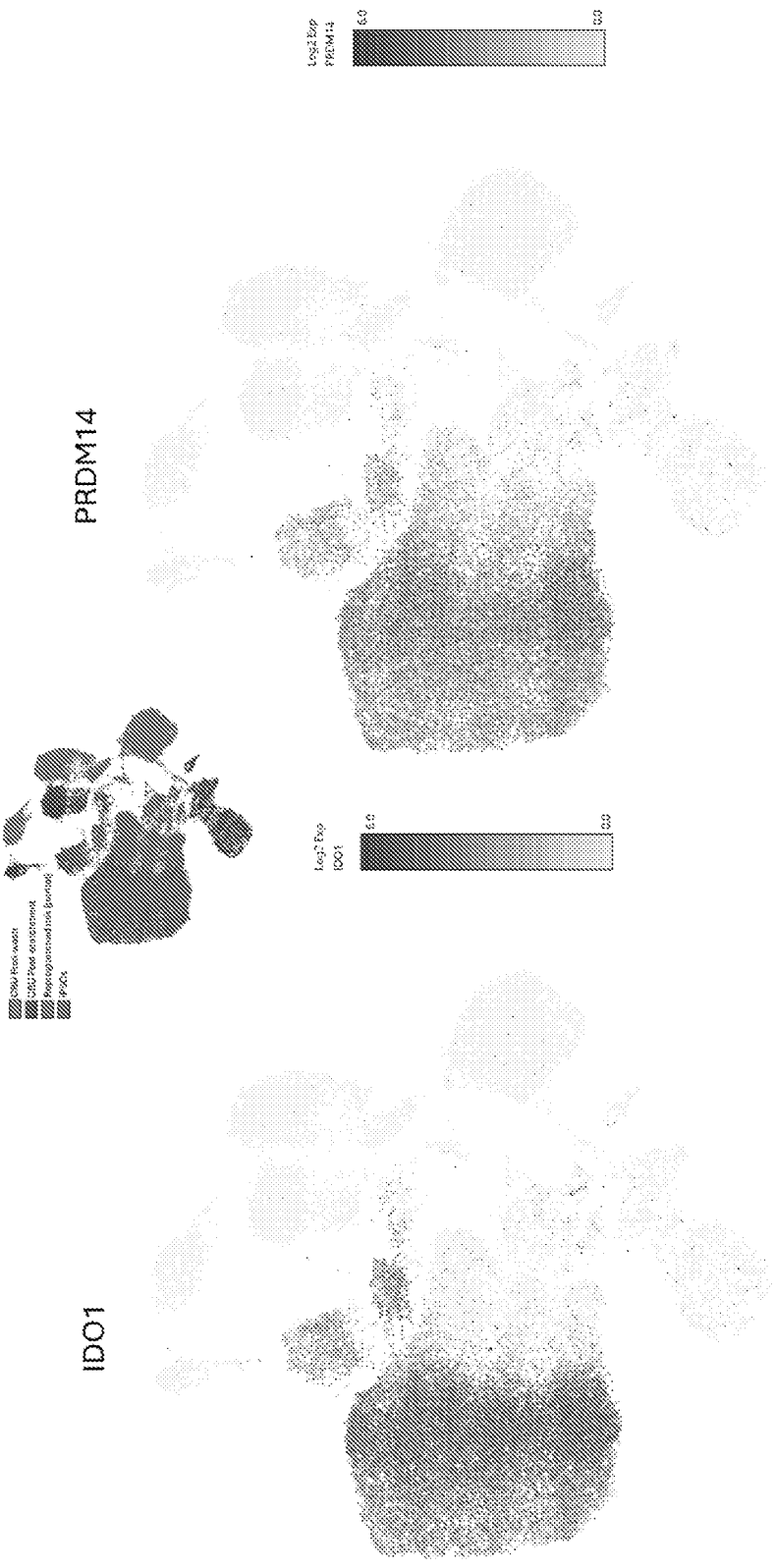


FIG. 18

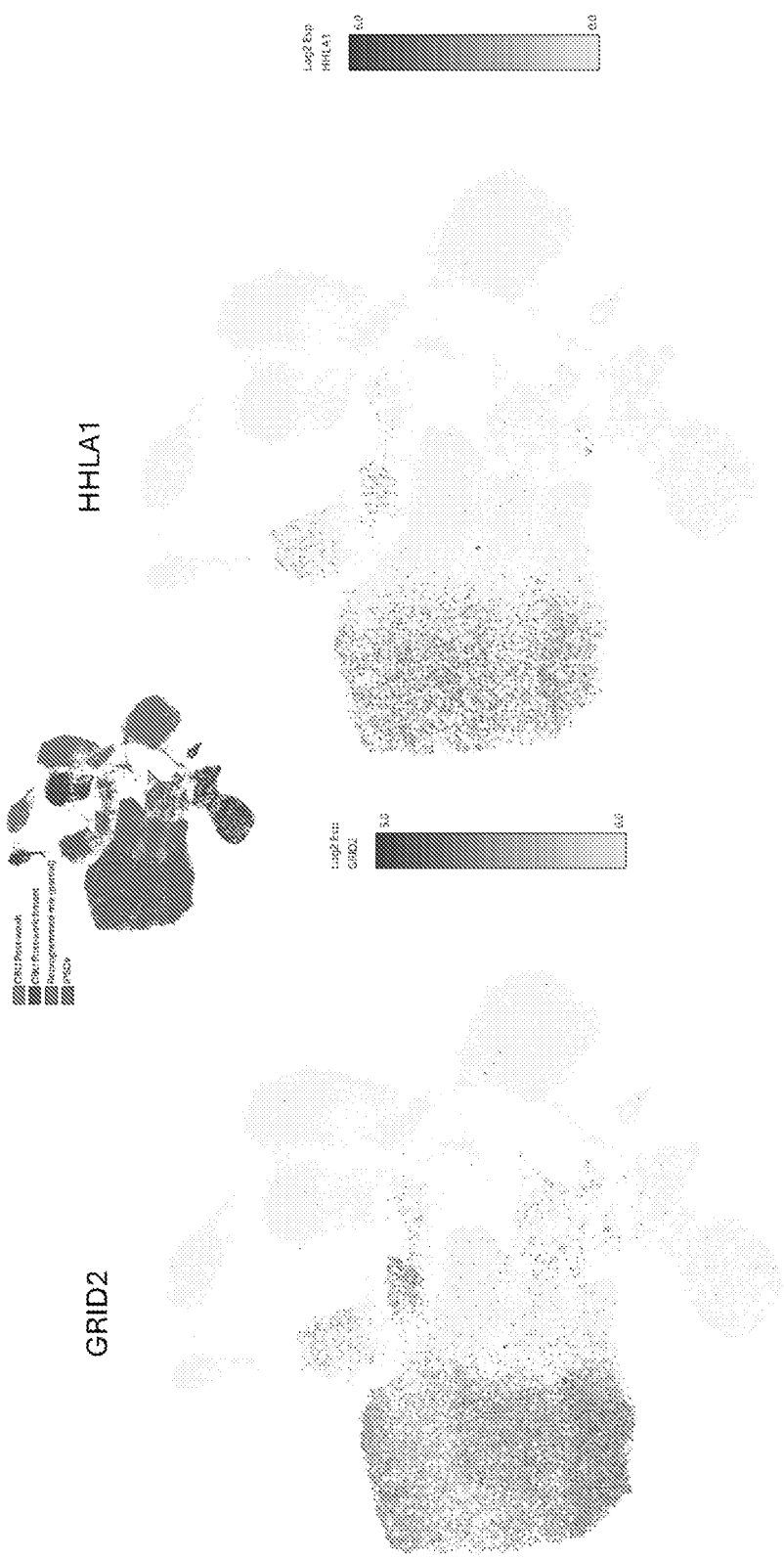


FIG. 19

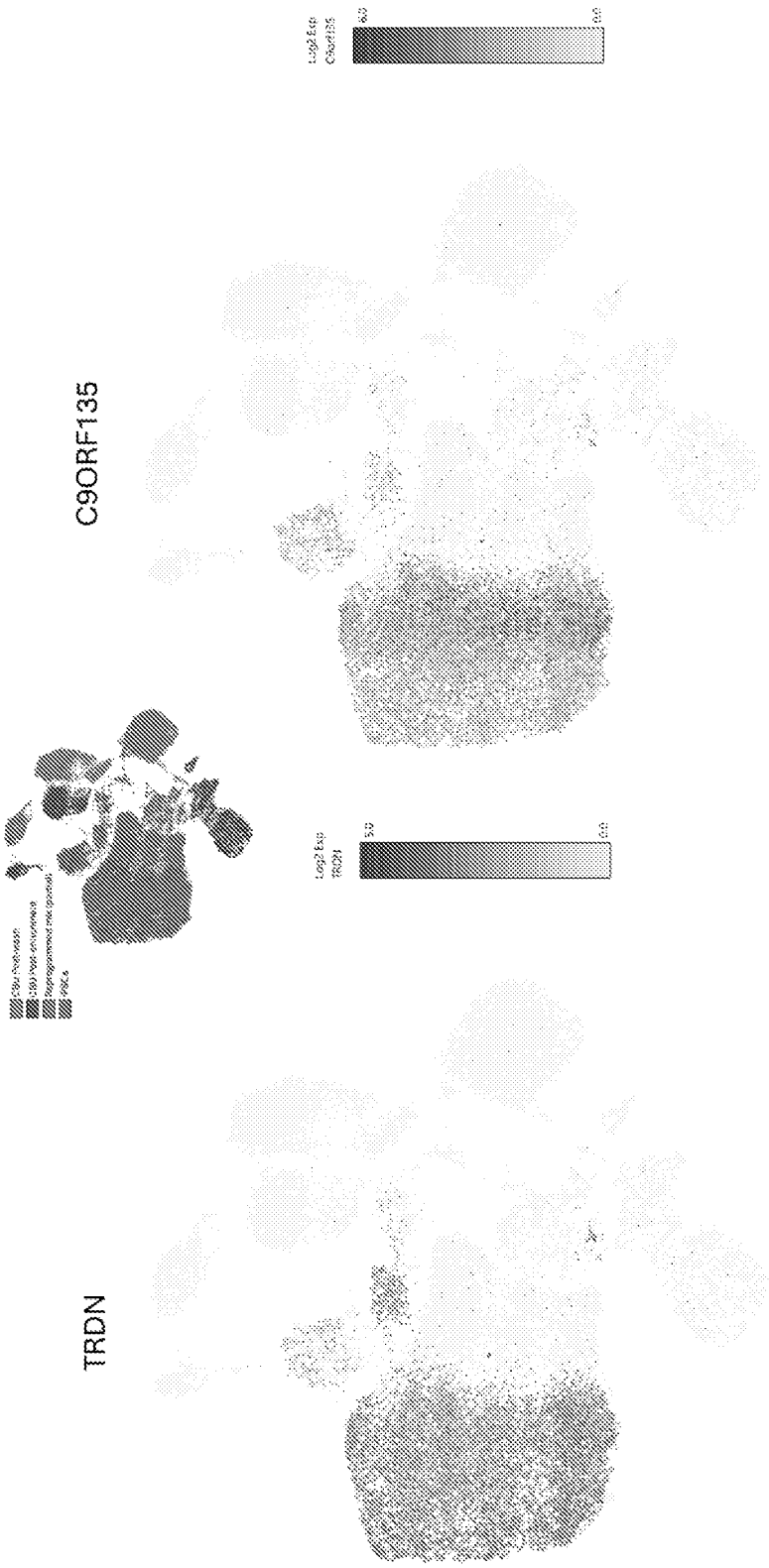


FIG. 20

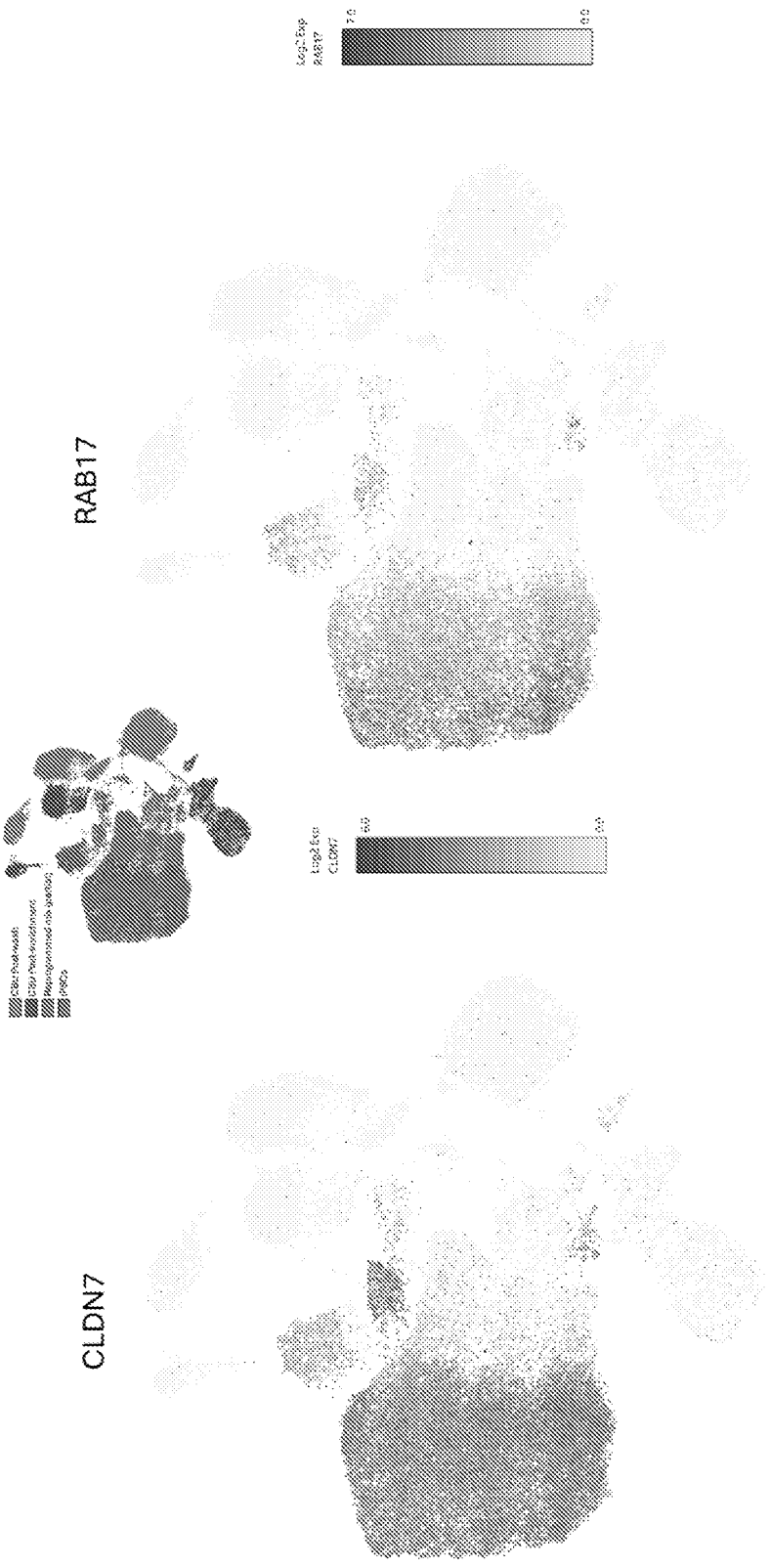


FIG. 21



FIG. 22

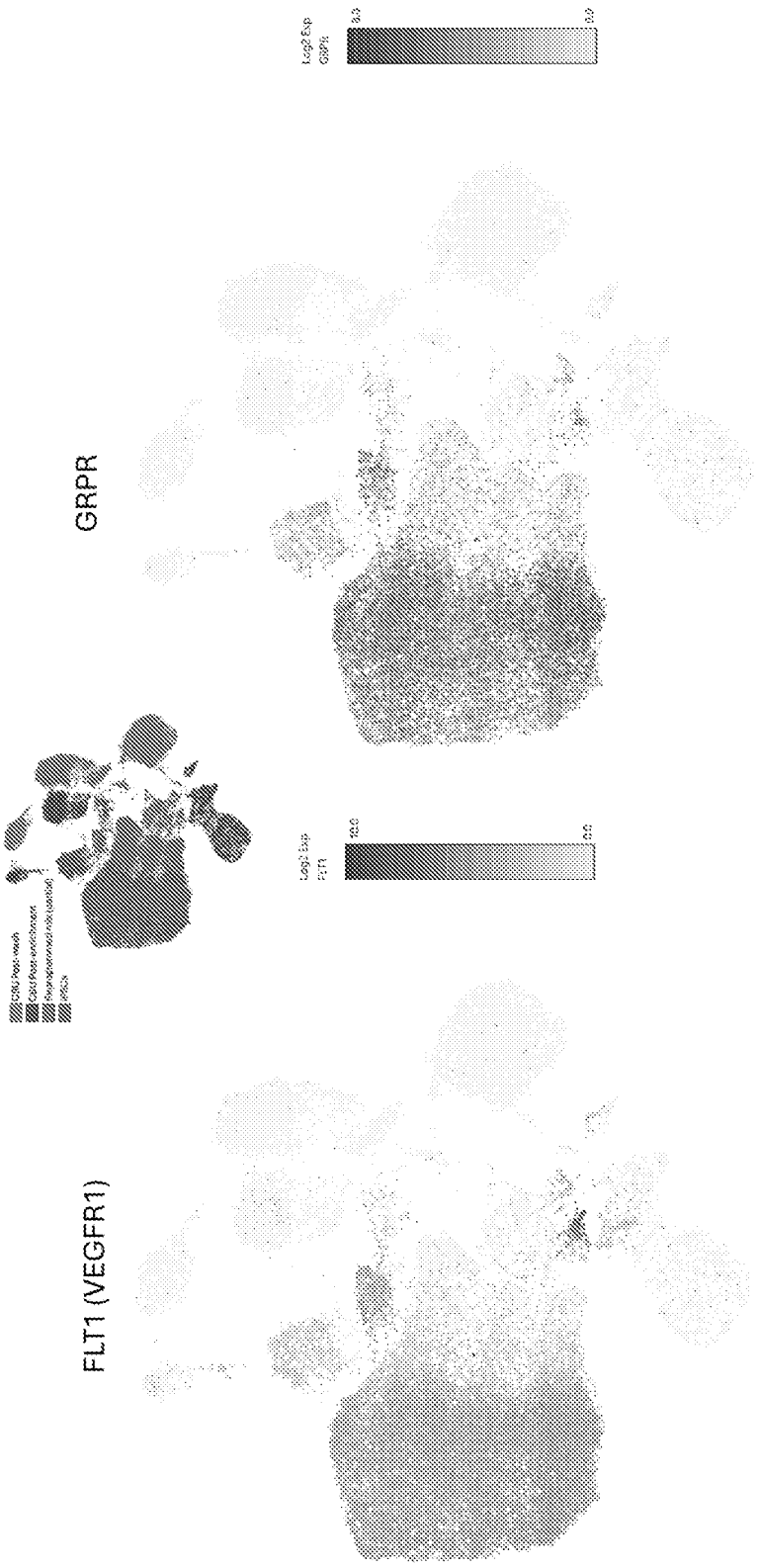


FIG. 23



FIG. 24

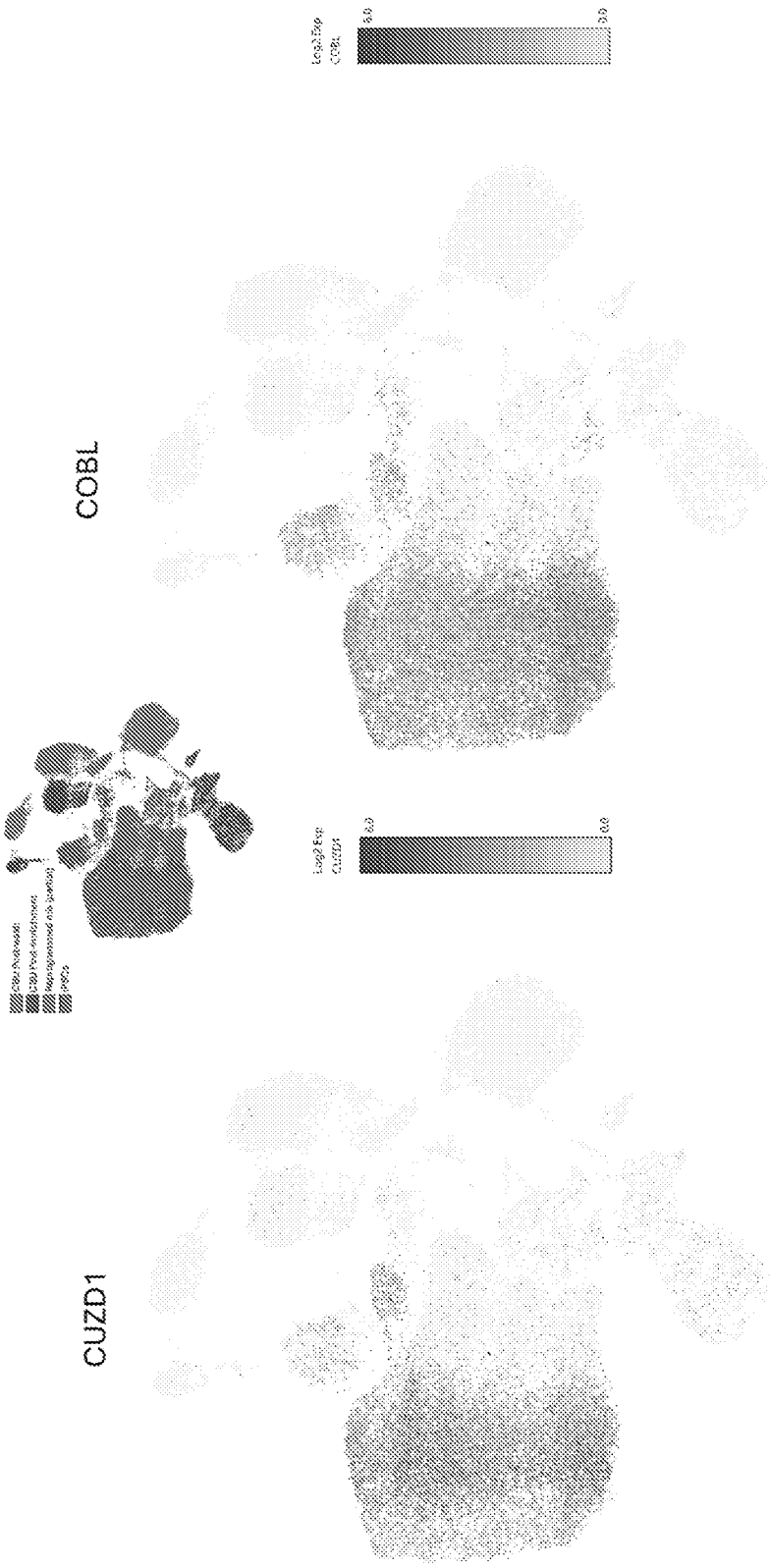


FIG. 25

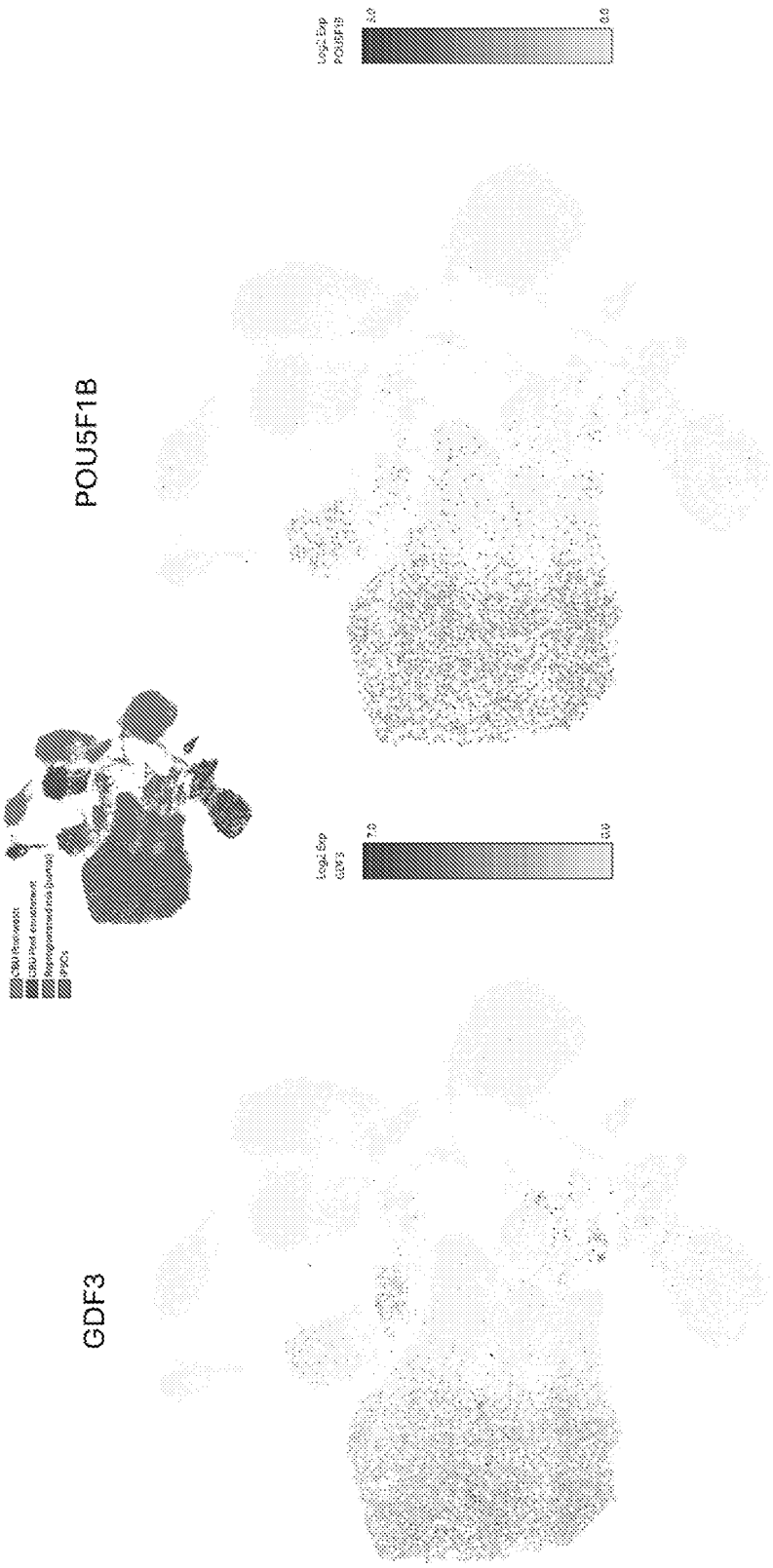


FIG. 26

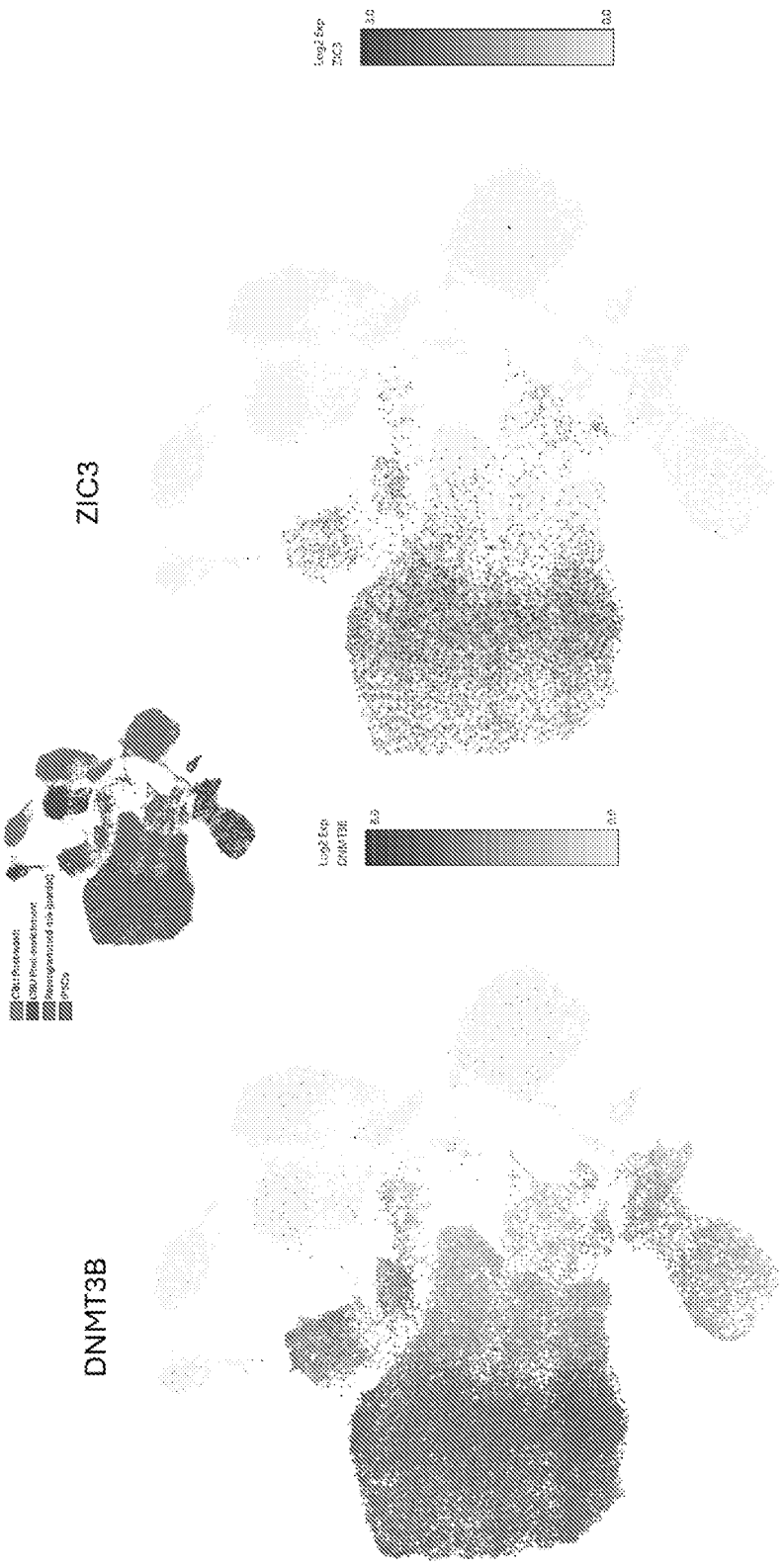


FIG. 27



FIG. 28



FIG. 29



FIG. 30

FIG. 31

