

# Stat M254 Final Project

Due June 16 @ 11:59PM

```
library(Seurat)
library(ggplot2)
library(fastglmPCA)
library(ggpubr)
library(dplyr)
```

```
packageVersion("Seurat")
```

```
[1] '5.1.0'
```

```
set.seed(2024)
```

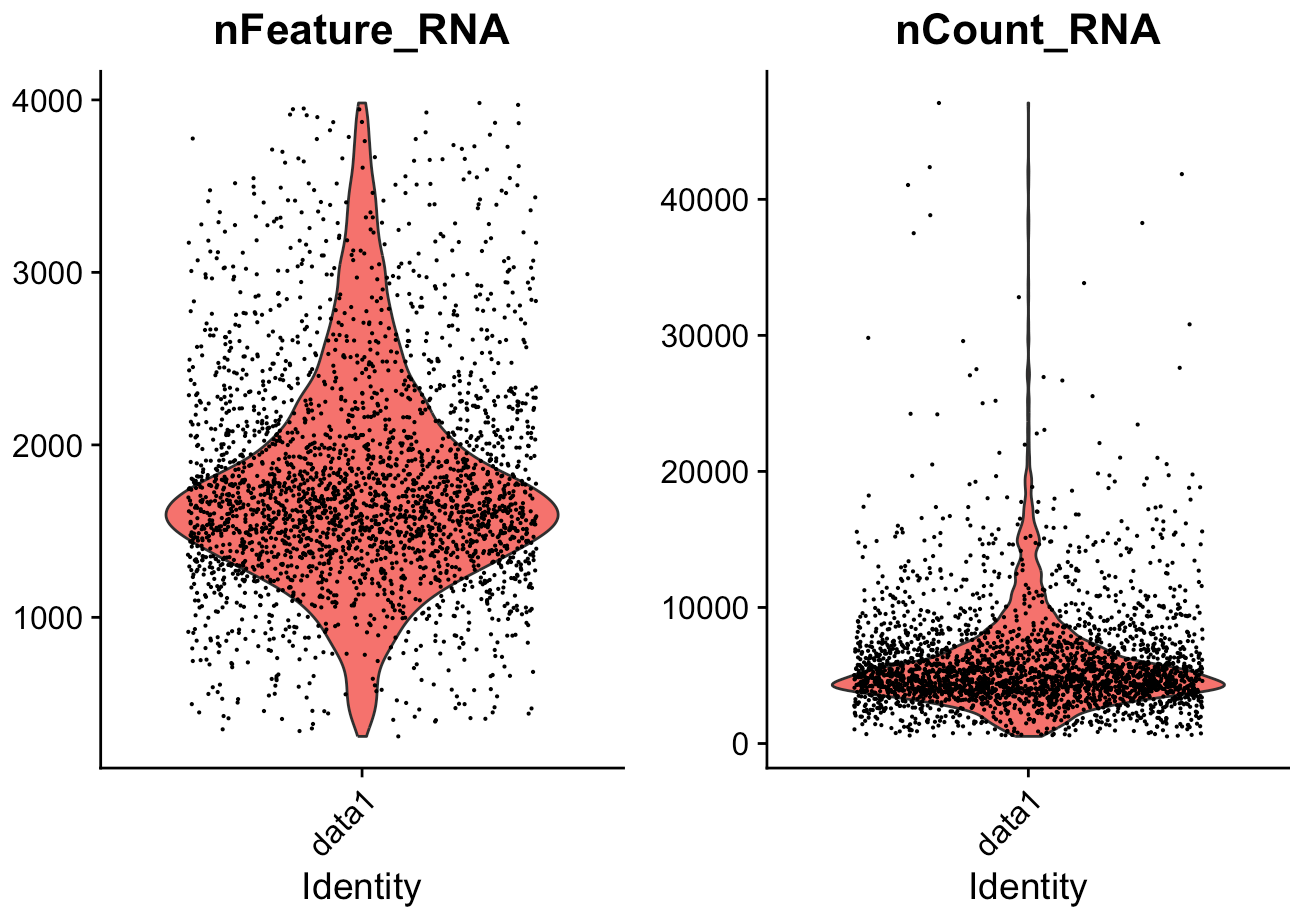
## Loading dataset 1

```
data1_rds <- readRDS(file = "Datasets_final/BoneMarrow_dataset1.rds")
```

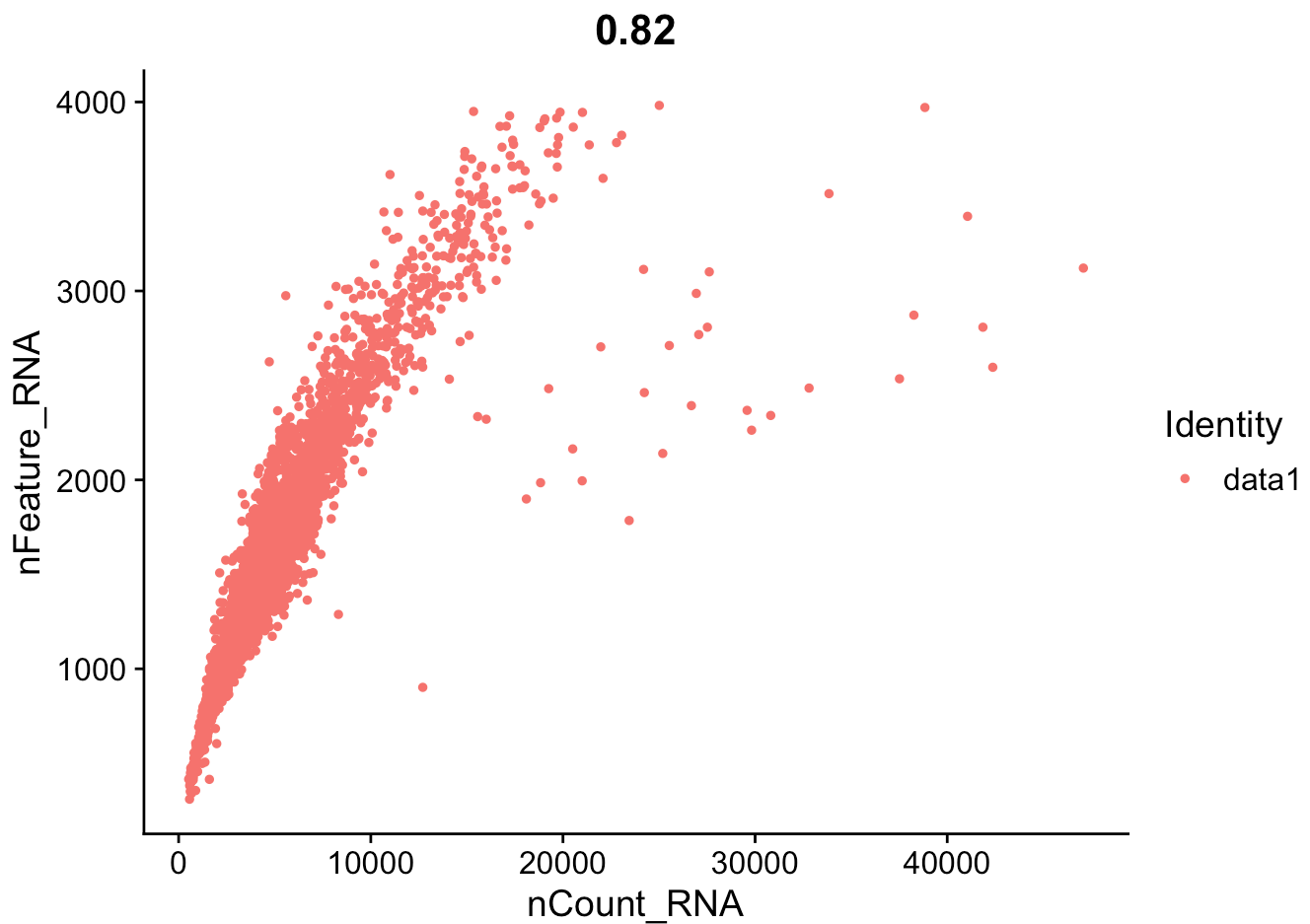
## Preprocessing dataset 1

```
data1 <- CreateSeuratObject(counts = data1_rds, project = "data1",
                             min.cells = 3, min.features = 200)
```

```
VlnPlot(data1, features = c("nFeature_RNA", "nCount_RNA"), ncol = 2)
```



```
FeatureScatter(data1, feature1 = "nCount_RNA", feature2 = "nFeature_RNA")
```



```
data1 <- subset(data1, subset = nCount_RNA > 200 & nCount_RNA < 15000)
```

```
data1
```

An object of class Seurat

17730 features across 2683 samples within 1 assay

Active assay: RNA (17730 features, 0 variable features)

1 layer present: counts

## Normalizing dataset 1

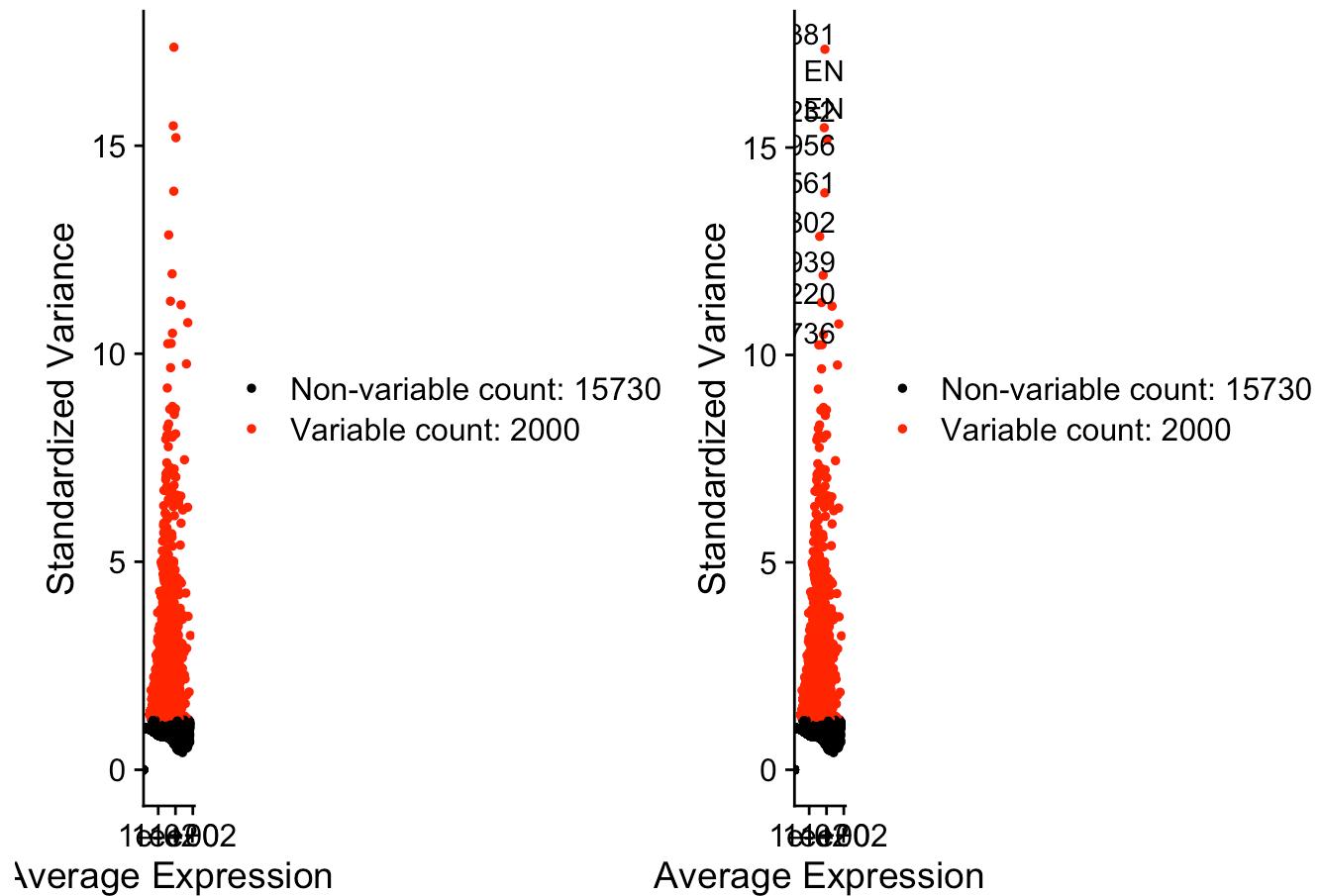
```
data1 <- NormalizeData(data1, normalization.method = "LogNormalize",  
                        scale.factor = 10000)
```

## Find highly variable genes

```
data1 <- FindVariableFeatures(data1, selection.method = "vst", nfeatures = 2000)
```

```
# Identify the 10 most highly variable genes
top10 <- head(VariableFeatures(data1), 10)

# plot variable features with and without labels
plot1 <- VariableFeaturePlot(data1)
plot2 <- LabelPoints(plot = plot1, points = top10, repel = TRUE)
plot1 + plot2
```

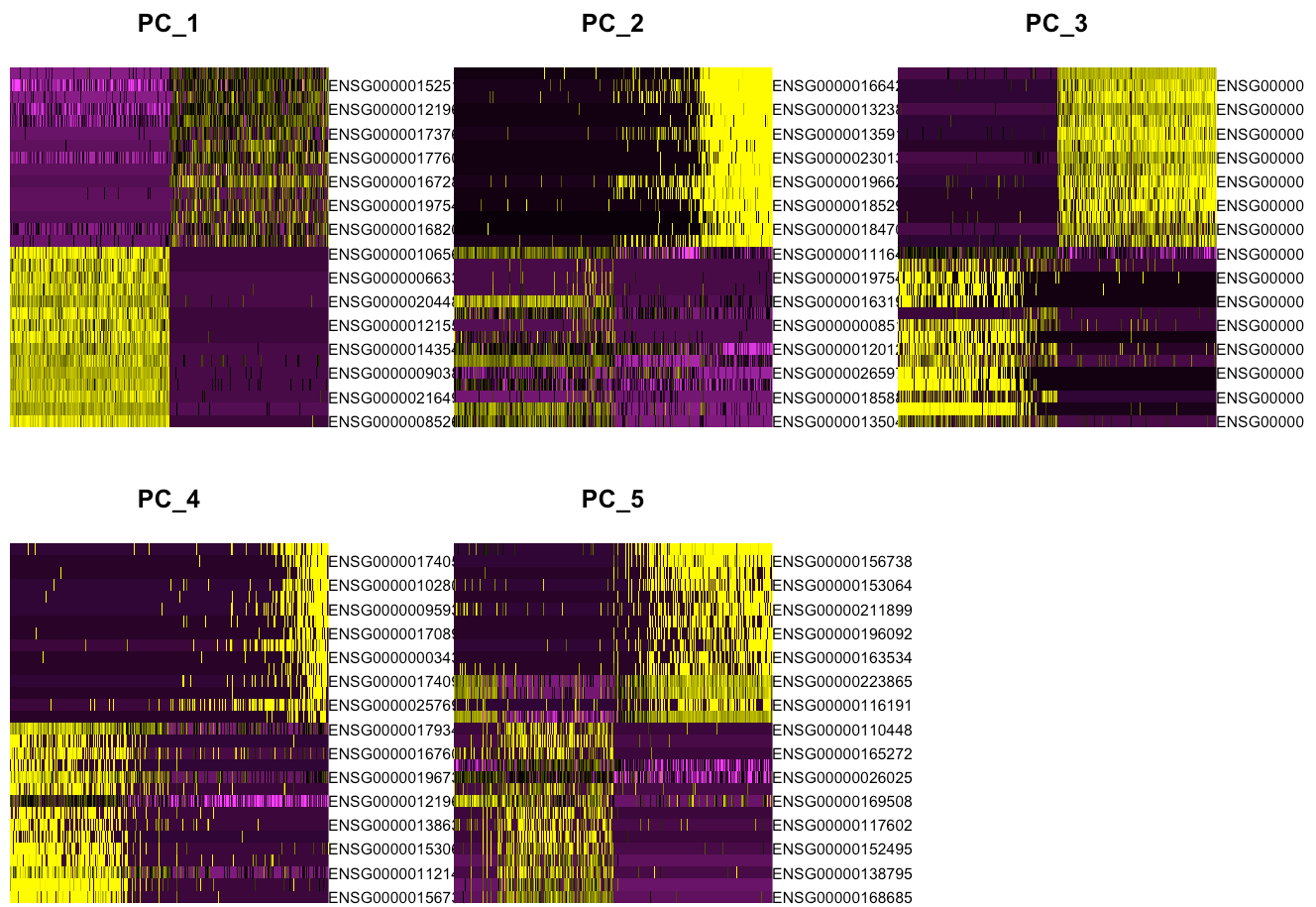


## Scaling dataset 1 and run PCA

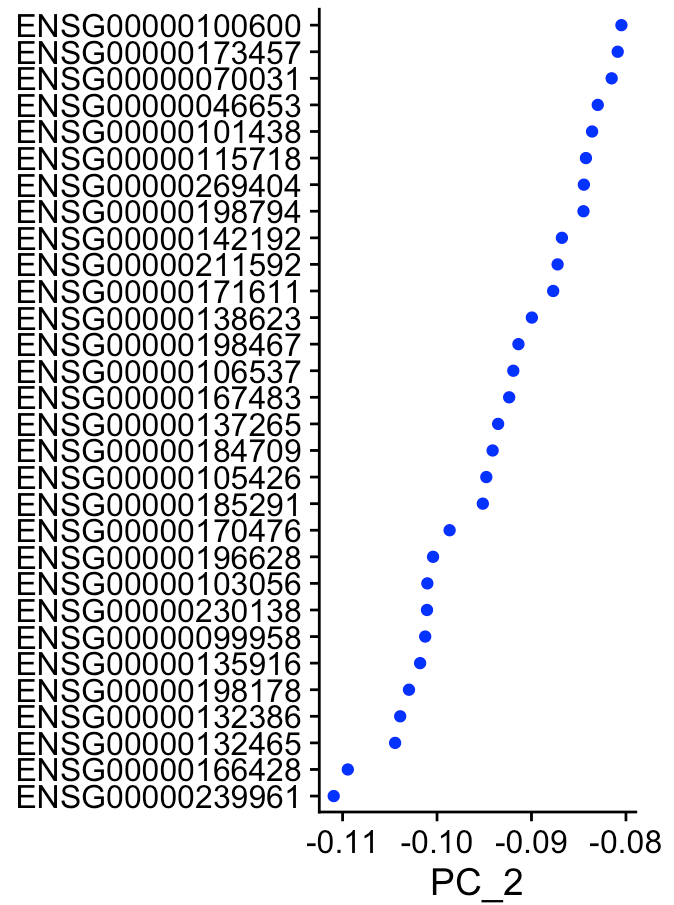
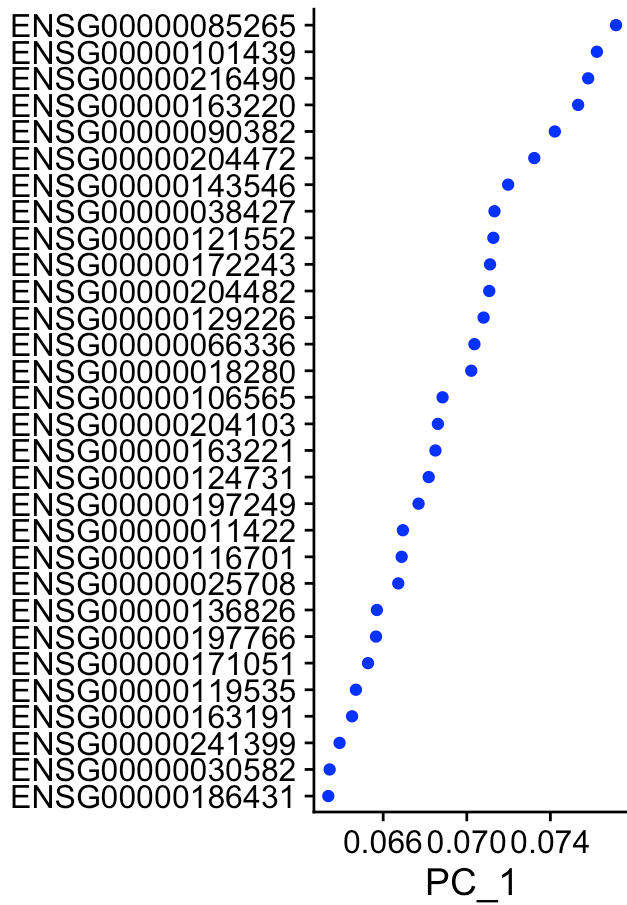
```
data1 <- ScaleData(data1)
```

```
data1 <- RunPCA(data1, npcs = 100)
```

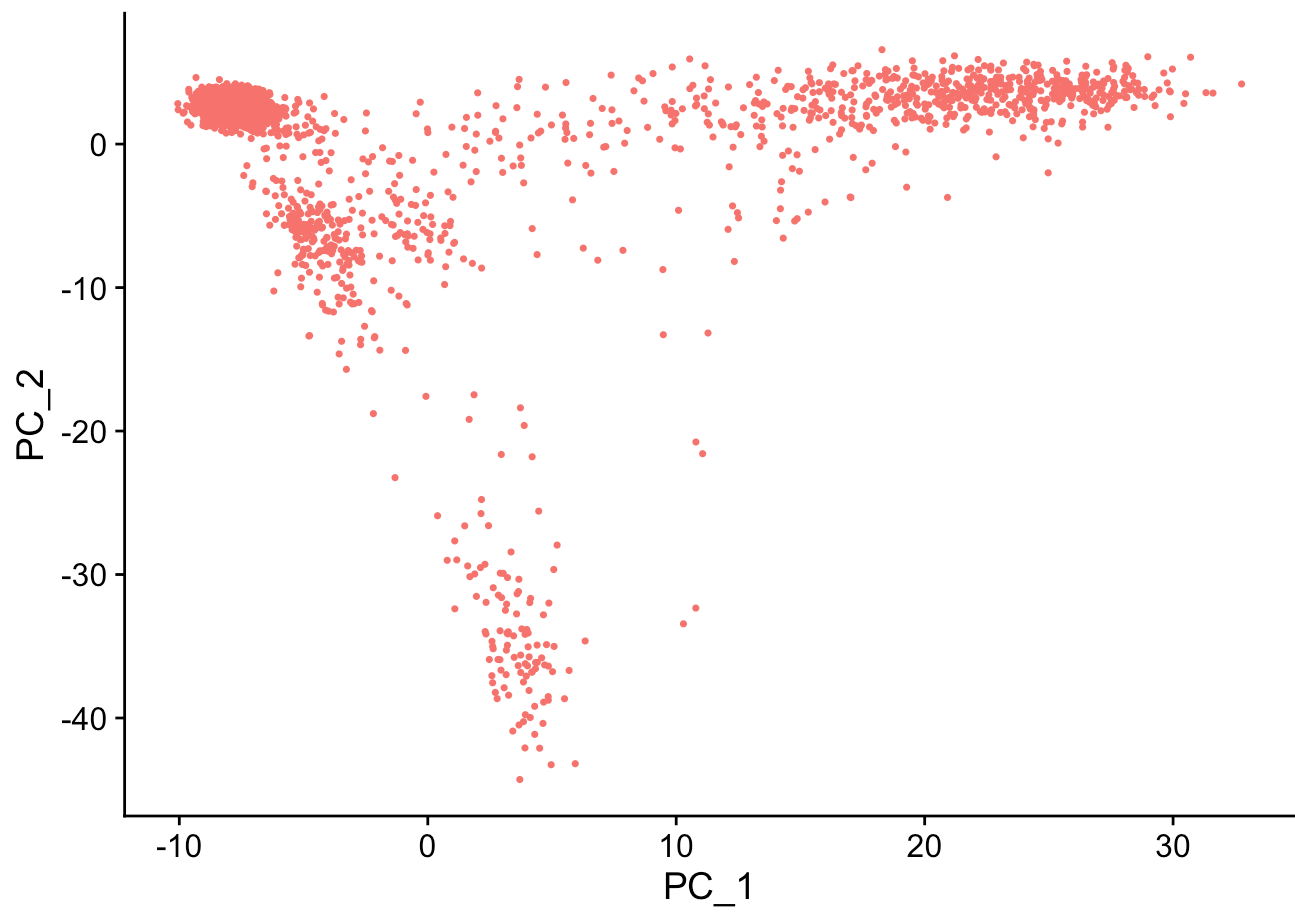
```
DimHeatmap(data1, dims = 1:5, cells = 500, balanced = TRUE)
```



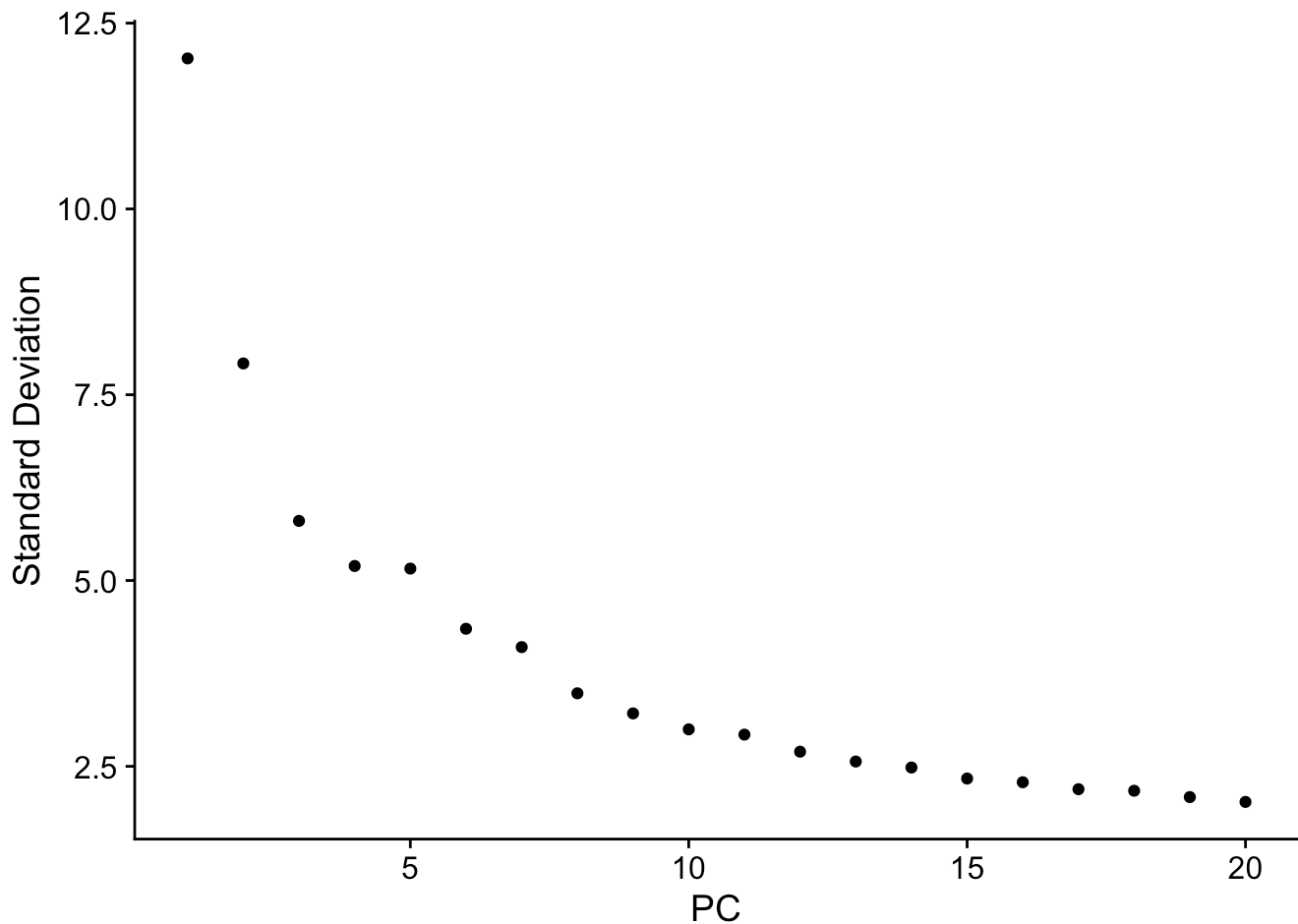
```
VizDimLoadings(data1, dims = 1:2, reduction = "pca")
```



```
DimPlot(data1, reduction = "pca") + NoLegend()
```



```
ElbowPlot(data1)
```



15 should be reasonable number of PCs to use for clustering

## Clustering dataset 1

```
data1 <- FindNeighbors(data1, k.param = 12, dims = 1:15)
data1 <- FindClusters(data1, algorithm = 1, resolution = 1.5)
```

Modularity Optimizer version 1.3.0 by Ludo Waltman and Nees Jan van Eck

Number of nodes: 2683

Number of edges: 53001

Running Louvain algorithm...

Maximum modularity in 10 random starts: 0.8245

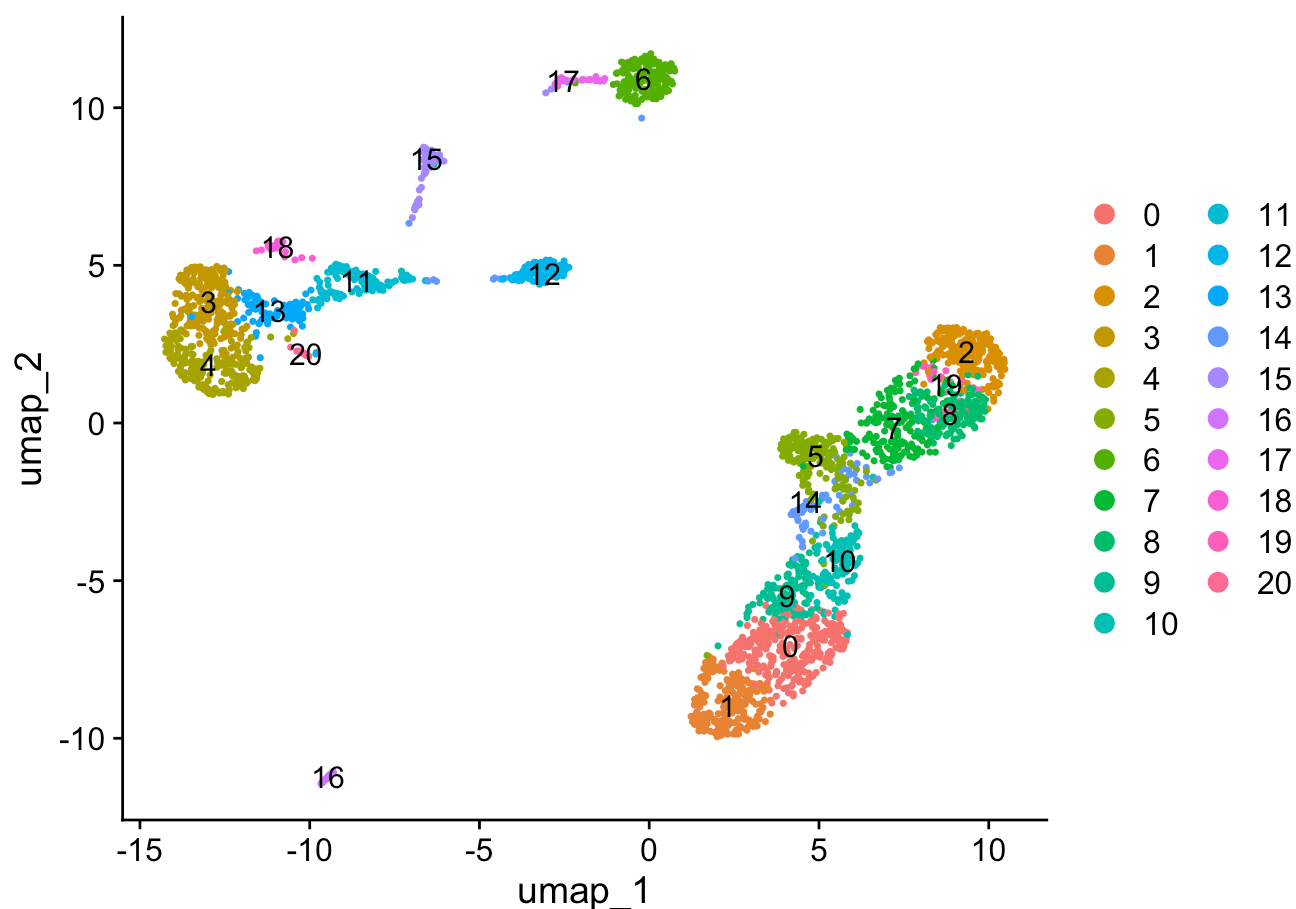
Number of communities: 21

Elapsed time: 0 seconds

```
data1 <- RunUMAP(data1, dims = 1:15, n.neighbors = 50)
```

```
DimPlot(data1, reduction = "umap", label = TRUE)
```





```
cluster2.markers <- FindMarkers(data1, ident.1 = 2)
```

```
head(cluster2.markers, n = 5)
```

	p_val	avg_log2FC	pct.1	pct.2	p_val_adj
ENSG0000036448	5.845854e-281	5.120988	0.842	0.053	1.036470e-276
ENSG00000198574	7.634866e-220	4.484793	0.647	0.033	1.353662e-215
ENSG00000137441	9.021005e-213	4.026964	0.879	0.100	1.599424e-208
ENSG00000180644	4.665963e-183	3.620712	0.977	0.192	8.272753e-179
ENSG00000203747	1.150558e-175	3.193053	0.930	0.152	2.039939e-171

```
data1.markers <- FindAllMarkers(data1, only.pos = TRUE)
data1.markers %>%
  group_by(cluster) %>%
  dplyr::filter(avg_log2FC > 1)
```

```
# A tibble: 23,698 × 7
```

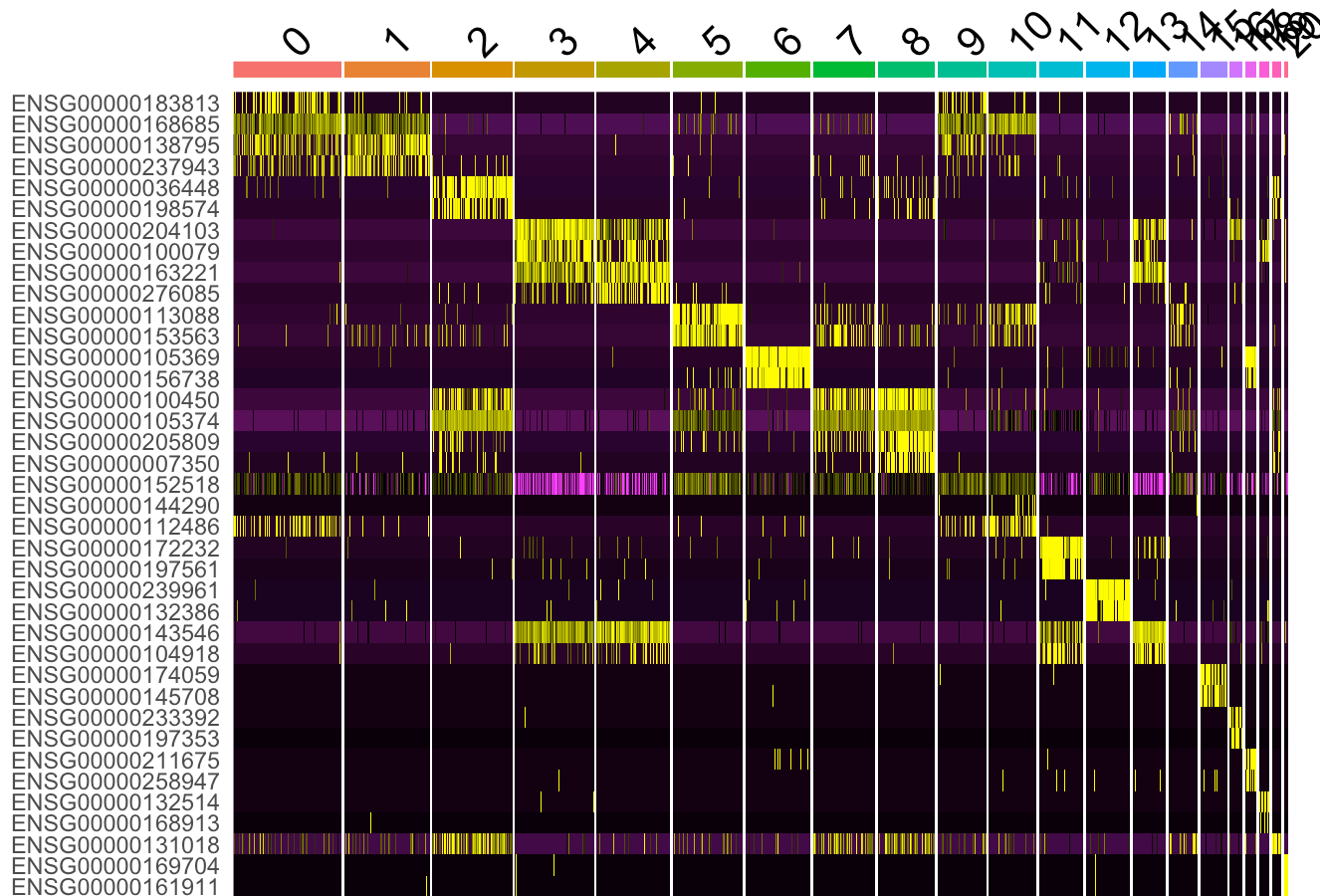
```
# Groups:   cluster [21]
```

	p_val	avg_log2FC	pct.1	pct.2	p_val_adj	cluster	gene
	<dbl>	<dbl>	<dbl>	<dbl>	<dbl>	<fct>	<chr>
1	8.42e-137	3.91	0.443	0.032	1.49e-132	0	ENSG00000183813
2	1.94e-131	1.96	0.979	0.259	3.45e-127	0	ENSG00000168685

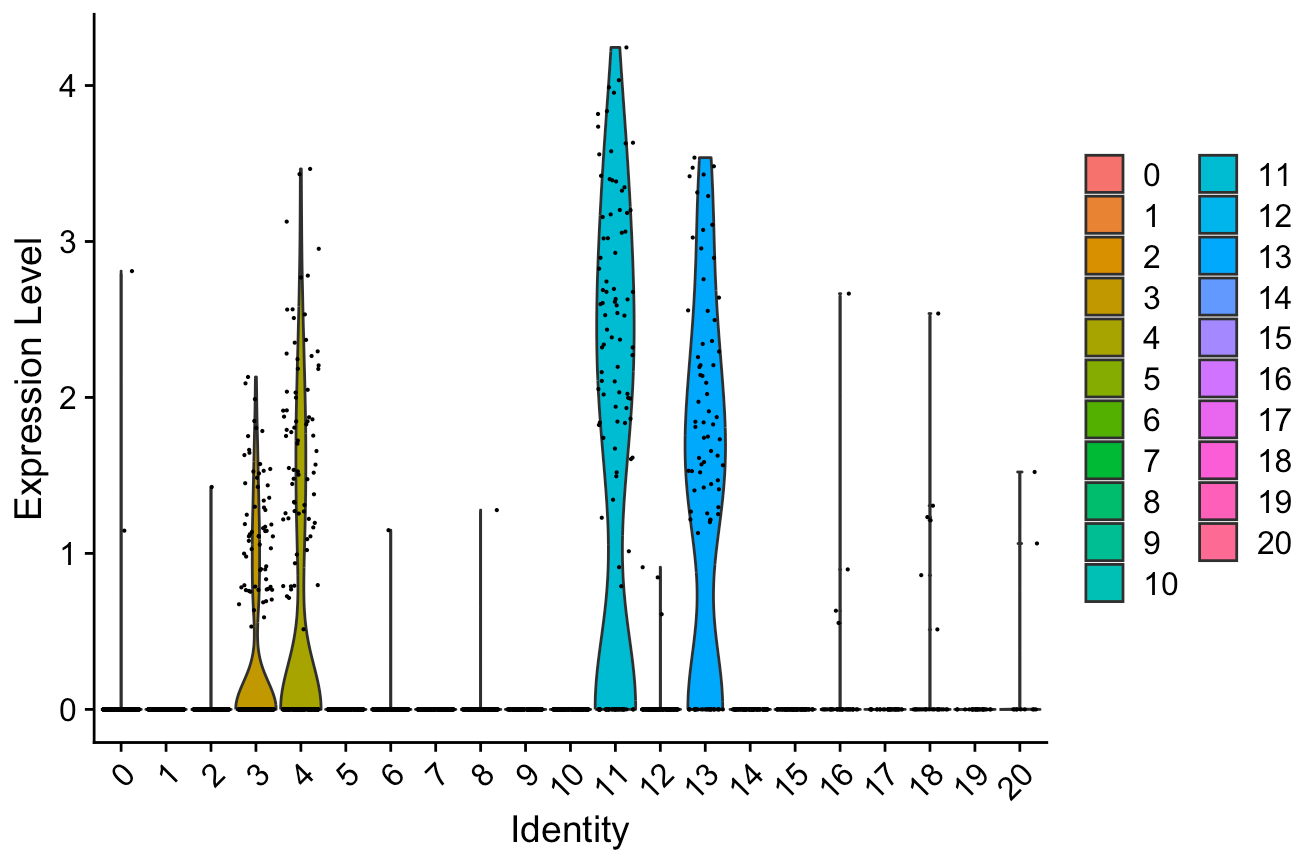
3	3.33e-126	2.25	0.962	0.339	5.90e-122	0	ENSG00000227507
4	2.94e-119	2.66	0.599	0.086	5.21e-115	0	ENSG00000172005
5	5.39e-108	2.48	0.616	0.105	9.56e-104	0	ENSG00000163600
6	2.57e- 88	2.01	0.612	0.124	4.56e- 84	0	ENSG00000138795
7	1.88e- 84	1.69	0.74	0.193	3.34e- 80	0	ENSG00000126353
8	2.78e- 83	1.18	1	0.907	4.92e- 79	0	ENSG00000133872
9	2.07e- 80	1.98	0.692	0.19	3.67e- 76	0	ENSG00000090554
10	4.60e- 78	2.25	0.581	0.135	8.16e- 74	0	ENSG00000117602

# i 23,688 more rows

```
data1.markers %>%
  group_by(cluster) %>%
  filter(avg_log2FC > 1) %>%
  slice_head(n = 2) %>%
  ungroup() -> top10
DoHeatmap(data1, features = top10$gene) + NoLegend()
```

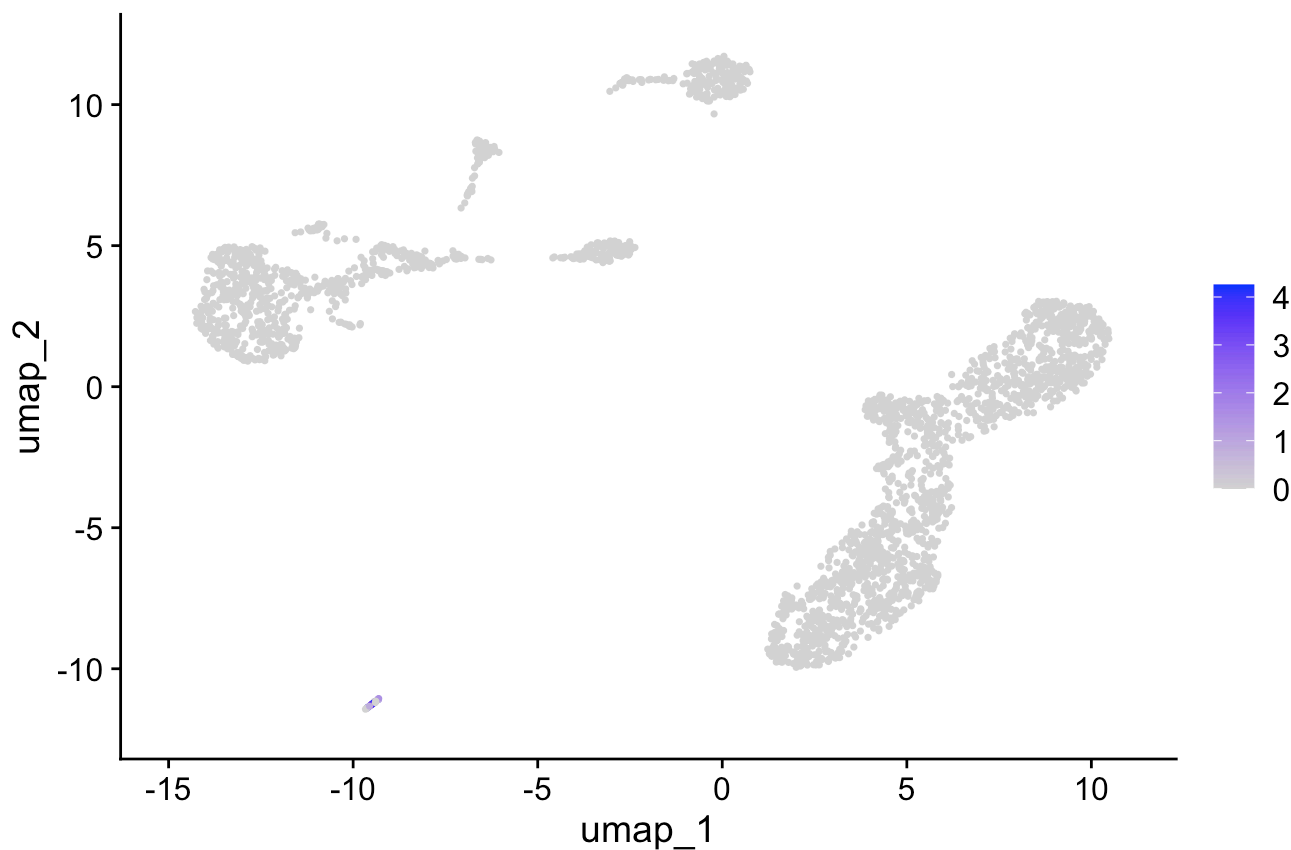


```
VlnPlot(data1, features = c("ENSG00000104918"))
```

**ENSG00000104918**

```
FeaturePlot(data1, features = c("ENSG00000197353"))
```

## ENSG00000197353



```
current_clusters <- Idents(data1)
print(table(current_clusters))
```

current\_clusters

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
	289	229	215	211	197	188	174	166	153	130	127	119	117	89	79	71	34	31	27	26
20																				
11																				

```
new_clusters <- current_clusters
new_clusters[new_clusters %in% c("0", "1", "9")] <- "0"
new_clusters[new_clusters %in% c("3", "4", "13")] <- "3"
new_clusters[new_clusters %in% c("2", "7", "8", "19")] <- "2"
new_clusters[new_clusters %in% c("5", "14")] <- "5"
new_clusters[new_clusters %in% c("11", "15", "18")] <- "15"
new_clusters[new_clusters %in% c("6", "17")] <- "17"
Idents(data1) <- new_clusters
```

```
# Verify the new cluster assignments
print(table(Idents(data1)))
```

```

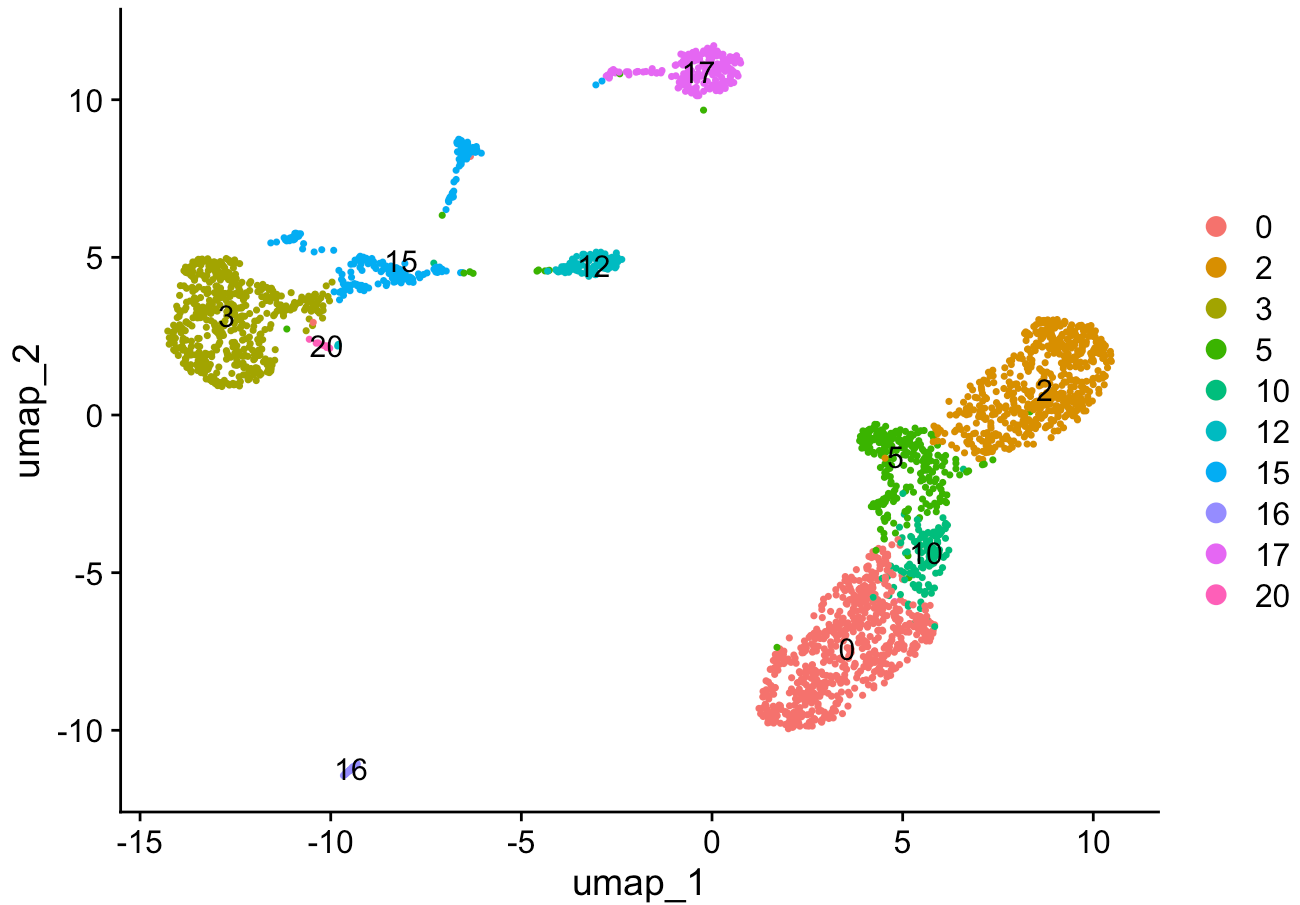
0    2    3    5   10   12   15   16   17   20
648 560 497 267 127 117 217  34 205  11

```

```

# Plot the UMAP with the combined clusters
DimPlot(data1, reduction = "umap", label = TRUE)

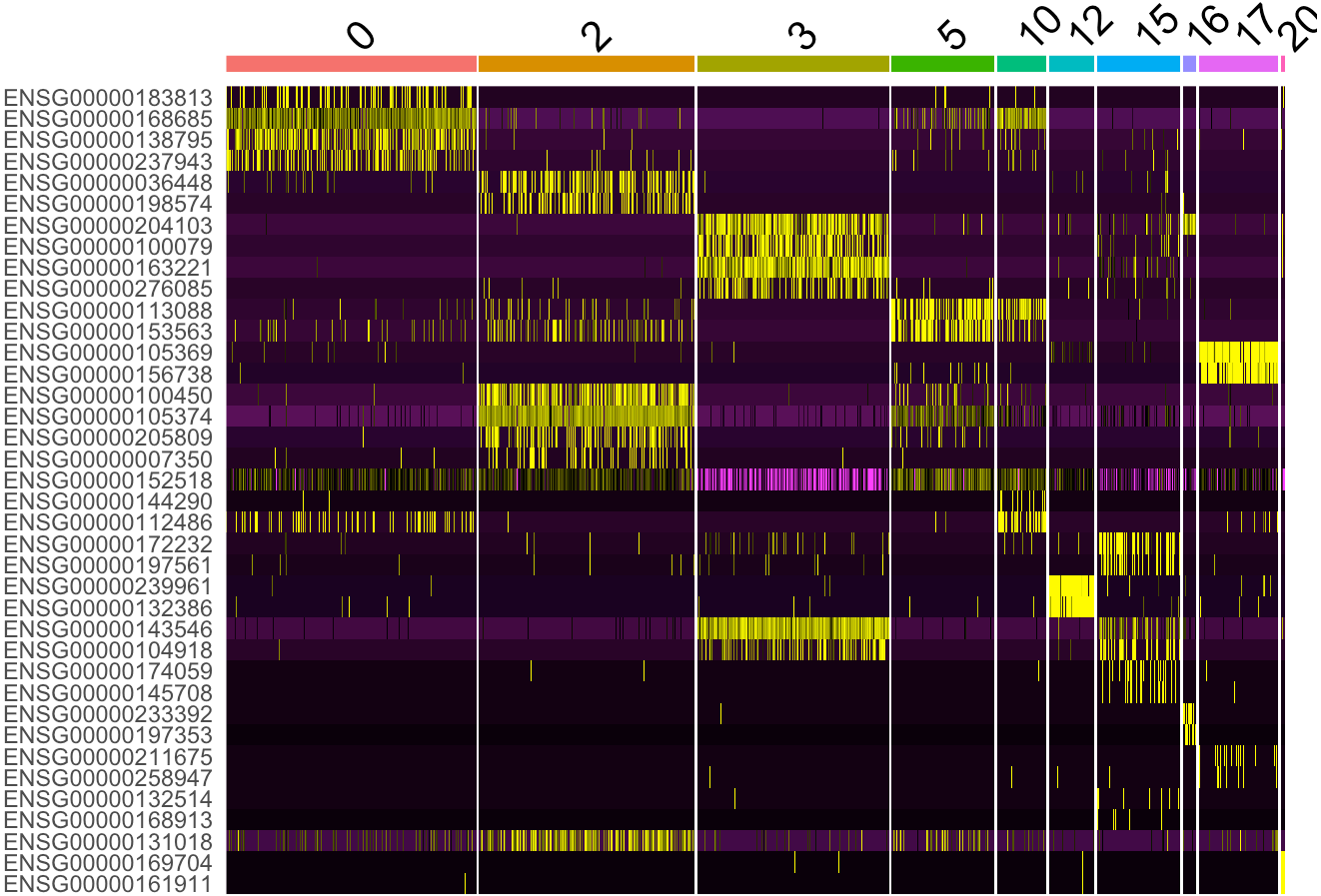
```



```

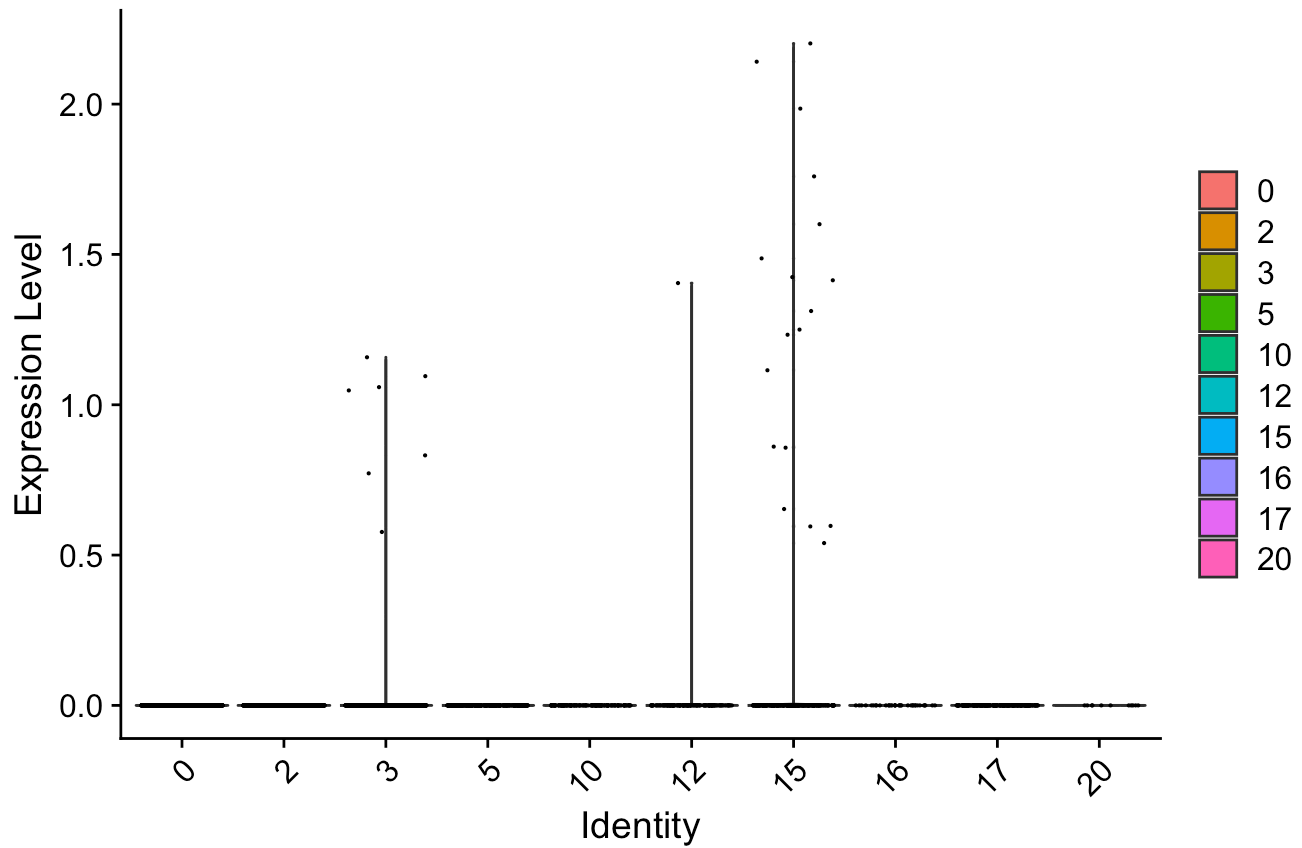
data1.markers %>%
  group_by(cluster) %>%
  filter(avg_log2FC > 1) %>%
  slice_head(n = 2) %>%
  ungroup() -> top10
DoHeatmap(data1, features = top10$gene) + NoLegend()

```



```
VlnPlot(data1, features = c("ENSG00000132514"))
```

# ENSG00000132514

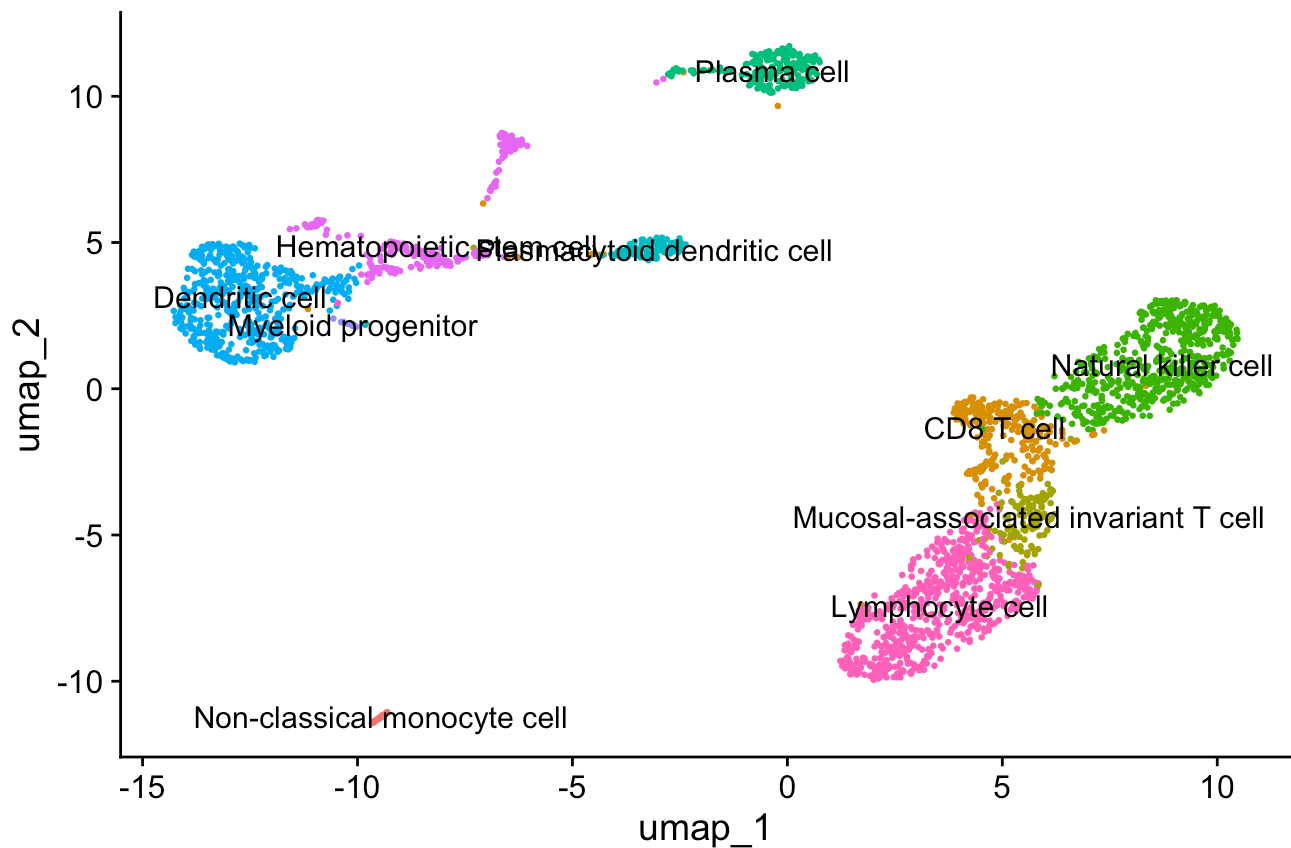


```
new.cluster.ids <- c(
  "16" = "Non-classical monocyte cell",
  "5" = "CD8 T cell",
  "10" = "Mucosal-associated invariant T cell",
  "2" = "Natural killer cell",
  "17" = "Plasma cell",
  "12" = "Plasmacytoid dendritic cell",
  "3" = "Dendritic cell",
  "20" = "Myeloid progenitor",
  "15" = "Hematopoietic stem cell",
  "0" = "Lymphocyte cell"
)
```

```
data1 <- RenameIds(data1, new.cluster.ids)
```

```
DimPlot(data1, reduction = "umap", label = TRUE, pt.size = 0.5) + NoLegend() +
  ggtitle("UMAP Plot with Relabeled Clusters")
```

## UMAP Plot with Relabeled Clusters



```
print(levels(Idsents(data1)))
```

```
[1] "Non-classical monocyte cell"      "CD8 T cell"
[3] "Mucosal-associated invariant T cell" "Natural killer cell"
[5] "Plasma cell"                     "Plasmacytoid dendritic cell"
[7] "Dendritic cell"                   "Myeloid progenitor"
[9] "Hematopoietic stem cell"          "Lymphocyte cell"
```

```
# Create a vector of cell type labels based on the renamed identities
cell_type_labels <- Idsents(data1)

# Add the cell type labels to the metadata
data1$cell_type <- cell_type_labels
```

```
metadata <- data1@meta.data
```

```
metadata
```

	orig.ident	nCount_RNA	nFeature_RNA	RNA_snn_res.1.5	seurat_clusters
Cell 1	data1	7600	1927	0	0
Cell 2	data1	5268	1625	20	20



Cell 3	data1	5043	1863	8	8
Cell 4	data1	2322	1112	10	10
Cell 5	data1	3776	1324	13	13
Cell 6	data1	12532	3505	12	12
Cell 7	data1	5273	2193	2	2
Cell 8	data1	3246	1467	2	2
Cell 9	data1	1250	659	13	13
Cell 10	data1	7990	2337	12	12
Cell 11	data1	9837	2438	3	3
Cell 12	data1	4337	1681	0	0
Cell 13	data1	2286	1072	1	1
Cell 14	data1	7397	2240	4	4
Cell 15	data1	2196	1128	17	17
Cell 16	data1	5912	1677	0	0
Cell 17	data1	8801	2266	3	3
Cell 18	data1	3517	1525	2	2
Cell 19	data1	6685	2024	12	12
Cell 20	data1	4814	1527	9	9
Cell 21	data1	8155	2690	17	17
Cell 22	data1	2835	1178	8	8
Cell 23	data1	3946	1375	1	1
Cell 24	data1	7344	2186	12	12
Cell 25	data1	5461	1592	6	6
Cell 26	data1	5311	1318	10	10
Cell 27	data1	7097	2184	12	12
Cell 28	data1	2605	1009	1	1
Cell 29	data1	9987	2497	3	3
Cell 30	data1	9385	2602	4	4
Cell 31	data1	4426	1513	1	1
Cell 32	data1	8417	2289	4	4
Cell 33	data1	2900	963	4	4
Cell 34	data1	5919	1971	0	0
Cell 35	data1	3766	1593	2	2
Cell 36	data1	5649	1513	9	9
Cell 38	data1	11490	2881	12	12
Cell 39	data1	3236	1042	1	1
Cell 40	data1	2658	1073	1	1
Cell 41	data1	3787	1467	5	5
Cell 42	data1	5596	1620	13	13
Cell 43	data1	5304	1564	9	9
Cell 44	data1	5486	1848	0	0
Cell 45	data1	4795	1607	3	3
Cell 46	data1	6348	1643	0	0
Cell 47	data1	7106	2042	3	3
Cell 48	data1	4112	1523	1	1
Cell 49	data1	3568	1402	4	4
Cell 50	data1	5587	1669	0	0
Cell 51	data1	13357	3004	9	9
Cell 52	data1	3741	1313	1	1
Cell 53	data1	5887	1821	4	4
Cell 54	data1	6404	1762	0	0

Cell 55	data1	3590	1669	2	2
Cell 56	data1	4888	1632	1	1
Cell 57	data1	6720	1984	0	0
Cell 58	data1	1423	813	14	14
Cell 59	data1	7407	2188	12	12
Cell 60	data1	7330	2007	3	3
Cell 61	data1	5846	1490	0	0
Cell 62	data1	6943	1932	1	1
Cell 63	data1	3873	1444	2	2
Cell 64	data1	4383	1262	6	6
Cell 65	data1	9322	2475	11	11
Cell 66	data1	6154	1810	1	1
Cell 67	data1	5327	1631	3	3
Cell 68	data1	2917	1283	4	4
Cell 69	data1	7245	2002	0	0
Cell 70	data1	2882	1591	2	2
Cell 71	data1	1963	1103	7	7
Cell 72	data1	3299	1398	2	2
Cell 73	data1	5572	2240	16	16
Cell 74	data1	12877	3035	3	3
Cell 75	data1	4226	1462	5	5
Cell 76	data1	4229	1265	1	1
Cell 77	data1	5189	1919	5	5
Cell 78	data1	3979	1703	2	2
Cell 79	data1	6429	1690	10	10
Cell 80	data1	7508	2113	13	13
Cell 82	data1	4300	1714	2	2
Cell 83	data1	4277	1587	5	5
Cell 84	data1	4390	1589	4	4
Cell 85	data1	4324	1420	10	10
Cell 86	data1	7052	2268	4	4
Cell 87	data1	2359	1165	5	5
Cell 88	data1	12474	2943	18	18
Cell 89	data1	4649	1763	0	0
Cell 90	data1	3714	1574	2	2
Cell 91	data1	3771	1386	6	6
Cell 92	data1	6961	2086	0	0
Cell 93	data1	4159	1371	4	4
Cell 94	data1	1741	851	1	1
Cell 95	data1	8297	2099	6	6
Cell 96	data1	1364	755	14	14
Cell 97	data1	5652	1616	0	0
Cell 98	data1	4636	1587	5	5
Cell 99	data1	3110	1149	1	1
Cell 100	data1	6724	1654	9	9
Cell 101	data1	6559	1708	0	0
Cell 102	data1	3601	1468	8	8
Cell 103	data1	2214	1124	2	2
Cell 104	data1	4618	1434	1	1
Cell 105	data1	6527	1643	20	20
Cell 106	data1	4597	1562	1	1

Cell 107	data1	4703	1353	0	0
Cell 108	data1	4729	1458	1	1
Cell 109	data1	12655	2628	0	0
Cell 110	data1	4249	1411	13	13
Cell 111	data1	2673	1021	4	4
Cell 112	data1	12488	3015	15	15
Cell 113	data1	5268	1685	10	10
Cell 114	data1	5207	1696	0	0
Cell 115	data1	4031	1273	9	9
Cell 116	data1	3406	1413	0	0
Cell 117	data1	3377	1411	2	2
Cell 119	data1	5052	1585	0	0
Cell 120	data1	4653	1463	7	7
Cell 121	data1	8355	2471	3	3
Cell 122	data1	8265	2624	9	9
Cell 123	data1	5214	1529	0	0
Cell 124	data1	5386	1511	0	0
Cell 125	data1	3070	1058	4	4
Cell 127	data1	4959	1806	3	3
Cell 128	data1	7271	2138	0	0
Cell 129	data1	4018	1590	11	11
Cell 130	data1	7513	2584	2	2
Cell 131	data1	4819	1517	0	0
Cell 132	data1	14606	3028	18	18
Cell 133	data1	3385	1525	2	2
Cell 134	data1	4909	1826	3	3
Cell 135	data1	7574	1963	13	13
Cell 136	data1	9702	2459	3	3
Cell 137	data1	2503	853	20	20
Cell 138	data1	2329	1039	10	10
Cell 139	data1	7271	2347	12	12
Cell 140	data1	3612	1505	2	2
Cell 141	data1	3842	1489	8	8
Cell 142	data1	6932	1932	0	0
Cell 143	data1	4407	1668	10	10
Cell 144	data1	2544	991	13	13
Cell 145	data1	7914	2192	0	0
Cell 146	data1	3984	1639	2	2
Cell 147	data1	8666	2784	12	12
Cell 148	data1	6843	1861	0	0
Cell 149	data1	7846	2189	3	3
Cell 150	data1	5033	1554	1	1
Cell 151	data1	4849	1441	6	6
Cell 152	data1	5184	2141	2	2
Cell 153	data1	7184	1756	9	9
Cell 154	data1	12694	2801	13	13
Cell 155	data1	5389	1909	8	8
Cell 156	data1	9154	2200	0	0
Cell 157	data1	4485	1927	2	2
Cell 158	data1	5065	1858	2	2
Cell 159	data1	5829	1536	1	1

Cell 160	data1	4313	1212	9	9
Cell 161	data1	4415	1522	5	5
Cell 162	data1	4123	1481	4	4
Cell 163	data1	1816	859	17	17
Cell 164	data1	2944	1386	7	7
Cell 165	data1	5312	1606	1	1
Cell 166	data1	8269	2321	4	4
Cell 167	data1	3417	1460	8	8
Cell 168	data1	4584	1342	1	1
Cell 169	data1	701	443	14	14
Cell 170	data1	5785	1940	0	0
Cell 171	data1	5539	1621	0	0
Cell 172	data1	10070	2498	5	5
Cell 173	data1	7056	1881	0	0
Cell 174	data1	9280	2670	6	6
Cell 175	data1	9205	2471	12	12
Cell 176	data1	2671	1133	7	7
Cell 177	data1	14886	3712	4	4
Cell 178	data1	2893	1272	2	2
Cell 179	data1	5829	1891	3	3
Cell 180	data1	5315	1740	7	7
Cell 182	data1	4202	1820	13	13
Cell 183	data1	5481	1794	4	4
Cell 184	data1	7149	1832	1	1
Cell 185	data1	2031	1014	9	9
Cell 186	data1	4633	1416	6	6
Cell 187	data1	4993	1625	3	3
Cell 188	data1	5769	1386	9	9
Cell 190	data1	3803	1194	0	0
Cell 191	data1	4000	1912	8	8
Cell 192	data1	4922	1827	7	7
Cell 193	data1	4488	1527	1	1
Cell 194	data1	7692	2328	0	0
Cell 195	data1	5970	1936	3	3
Cell 196	data1	10855	2801	11	11
Cell 197	data1	8350	2227	3	3
Cell 198	data1	10077	2700	3	3
Cell 199	data1	3684	1367	14	14
Cell 200	data1	6717	1823	0	0
Cell 201	data1	4007	1756	8	8
Cell 202	data1	6717	2053	11	11
Cell 203	data1	5551	1510	0	0
Cell 204	data1	5769	1722	9	9
Cell 205	data1	5321	1736	10	10
Cell 206	data1	5471	1756	0	0
Cell 207	data1	5399	1536	10	10
Cell 208	data1	2609	1071	9	9
Cell 209	data1	7121	2139	4	4
Cell 210	data1	1657	896	14	14
Cell 211	data1	5671	1705	12	12
Cell 212	data1	6830	1990	10	10

Cell 213	data1	2189	1300	14	14
Cell 214	data1	4205	1501	5	5
Cell 215	data1	6000	2057	11	11
Cell 216	data1	2730	1195	14	14
Cell 217	data1	5557	1820	4	4
Cell 218	data1	6932	2002	13	13
Cell 219	data1	4492	1970	2	2
Cell 220	data1	1222	499	11	11
Cell 221	data1	2786	1202	19	19
Cell 222	data1	5870	1893	3	3
Cell 223	data1	2721	1018	5	5
Cell 224	data1	6595	1752	0	0
Cell 225	data1	6125	1764	0	0
Cell 226	data1	5392	1680	0	0
Cell 227	data1	4334	1639	7	7
Cell 229	data1	4378	1396	10	10
Cell 230	data1	4297	1396	6	6
Cell 231	data1	4477	1233	9	9
Cell 232	data1	4071	1318	6	6
Cell 234	data1	5318	2222	2	2
Cell 235	data1	4548	1613	5	5
Cell 236	data1	5516	1778	1	1
Cell 237	data1	4486	1703	7	7
Cell 238	data1	2349	871	5	5
Cell 239	data1	4153	1461	5	5
Cell 240	data1	6417	1671	0	0
Cell 241	data1	6262	1752	0	0
Cell 242	data1	4448	1850	8	8
Cell 243	data1	4846	1493	9	9
Cell 244	data1	6589	1951	3	3
Cell 245	data1	8921	2421	6	6
Cell 246	data1	7087	1994	0	0
Cell 247	data1	13094	3231	16	16
Cell 248	data1	4814	1741	11	11
Cell 249	data1	4634	1531	5	5
Cell 250	data1	6199	1599	9	9
Cell 251	data1	7246	2762	11	11
Cell 252	data1	4962	1463	1	1
Cell 253	data1	4602	1489	1	1
Cell 254	data1	3947	1506	5	5
Cell 255	data1	5872	1492	9	9
Cell 256	data1	13213	2990	15	15
Cell 257	data1	3263	1284	10	10
Cell 258	data1	4939	1614	10	10
Cell 259	data1	4939	1384	6	6
Cell 260	data1	2022	894	14	14
Cell 261	data1	5038	1792	1	1
Cell 262	data1	9565	2483	6	6
Cell 263	data1	7619	2251	11	11
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Cell 265	data1	1411	894	14	14

Cell 266	data1	4549	1376	6	6
Cell 267	data1	4870	1725	5	5
Cell 268	data1	922	519	14	14
Cell 269	data1	10107	2657	4	4
Cell 270	data1	4939	1506	9	9
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Cell 274	data1	4175	1564	5	5
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Cell 276	data1	3176	1344	4	4
Cell 277	data1	3897	1304	4	4
Cell 278	data1	10589	2576	3	3
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Cell 281	data1	2061	893	8	8
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Cell 284	data1	2280	1212	19	19
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Cell 286	data1	4713	1437	6	6
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Cell 288	data1	4256	1666	7	7
Cell 289	data1	5144	1887	8	8
Cell 290	data1	6513	1878	3	3
Cell 291	data1	5695	1709	1	1
Cell 292	data1	6165	1668	6	6
Cell 293	data1	8421	2044	0	0
Cell 294	data1	7367	2204	3	3
Cell 295	data1	5218	2051	8	8
Cell 296	data1	8417	2414	13	13
Cell 297	data1	3670	1470	10	10
Cell 298	data1	4437	1597	7	7
Cell 299	data1	1367	706	14	14
Cell 300	data1	6351	2119	12	12
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Cell 304	data1	2606	1128	17	17
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Cell 307	data1	5658	1669	10	10
Cell 308	data1	11409	3284	12	12
Cell 309	data1	4938	1535	10	10
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Cell 322	data1	2642	1009	13	13
Cell 323	data1	7211	1991	1	1
Cell 324	data1	6492	2030	0	0
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Cell 327	data1	2832	1043	10	10
Cell 328	data1	3510	1596	2	2
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Cell 332	data1	3564	1310	9	9
Cell 333	data1	5328	2183	14	14
Cell 334	data1	6978	1973	0	0
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Cell 336	data1	8572	2344	3	3
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Cell 339	data1	10295	3034	12	12
Cell 340	data1	7589	2135	4	4
Cell 341	data1	5300	1412	0	0
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Cell 344	data1	8635	2605	4	4
Cell 345	data1	2654	1181	5	5
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Cell 349	data1	4605	1717	7	7
Cell 350	data1	2056	998	4	4
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Cell 353	data1	3636	1383	14	14
Cell 354	data1	1991	1028	8	8
Cell 355	data1	6278	1654	0	0
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Cell 358	data1	3361	1080	6	6
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Cell 361	data1	7532	1982	13	13
Cell 362	data1	6288	1943	4	4
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Cell 364	data1	7436	2306	12	12
Cell 365	data1	4864	1940	8	8
Cell 366	data1	955	542	14	14
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Cell 369	data1	5405	1605	0	0

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Cell 371	data1	4456	1390	1	1
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Cell 374	data1	4034	1431	5	5
Cell 375	data1	3834	1227	14	14
Cell 376	data1	3446	1228	5	5
Cell 377	data1	4429	1417	5	5
Cell 378	data1	4101	1749	2	2
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Cell 380	data1	4295	1659	2	2
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Cell 385	data1	7122	1824	0	0
Cell 386	data1	7313	1975	12	12
Cell 387	data1	3613	1448	14	14
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Cell 396	data1	4935	1614	10	10
Cell 397	data1	6979	2081	6	6
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Cell 419	data1	7882	2074	1	1
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Cell 607	data1	12239	2474	15	15
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Cell 631	data1	4014	1705	2	2
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Cell 673	data1	5969	1732	9	9
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Cell 705	data1	3375	1407	8	8
Cell 706	data1	6911	1984	0	0
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Cell 708	data1	5626	1866	4	4
Cell 709	data1	8244	2135	4	4
Cell 710	data1	5796	2333	7	7
Cell 711	data1	6399	1761	0	0
Cell 712	data1	4785	1531	1	1
Cell 713	data1	5090	1861	8	8
Cell 714	data1	7566	2001	0	0
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Cell 716	data1	5621	1638	10	10
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Cell 719	data1	6255	2075	0	0
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Cell 742	data1	9641	2629	12	12
Cell 743	data1	5353	1408	9	9
Cell 744	data1	2702	969	4	4
Cell 745	data1	5478	1741	1	1

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Cell 748	data1	1709	892	4	4
Cell 749	data1	6932	1929	13	13
Cell 750	data1	3893	1408	11	11
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Cell 752	data1	11575	2972	11	11
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Cell 754	data1	5104	1608	11	11
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Cell 756	data1	9769	2482	13	13
Cell 757	data1	5149	1808	18	18
Cell 758	data1	2338	1127	1	1
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Cell 762	data1	3641	1314	1	1
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Cell 764	data1	5862	1905	10	10
Cell 765	data1	4393	1498	4	4
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Cell 768	data1	3863	1716	2	2
Cell 769	data1	6888	1674	0	0
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Cell 771	data1	5788	1883	10	10
Cell 772	data1	9044	2466	7	7
Cell 773	data1	4296	1548	0	0
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Cell 776	data1	4290	1561	7	7
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Cell 782	data1	2357	1177	8	8
Cell 783	data1	8152	2297	0	0
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Cell 871	data1	3483	1470	8	8
Cell 872	data1	5365	1551	0	0
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Cell 1211	data1	11956	2630	13	13
Cell 1212	data1	767	497	14	14
Cell 1213	data1	3754	1385	9	9
Cell 1214	data1	7223	2368	3	3
Cell 1215	data1	3014	1260	8	8
Cell 1216	data1	1928	1158	19	19
Cell 1217	data1	7304	1965	10	10
Cell 1218	data1	5818	1817	1	1

Cell 1219	data1	7583	2564	18	18
Cell 1220	data1	6478	2085	4	4
Cell 1221	data1	5708	1535	9	9
Cell 1222	data1	2046	877	4	4
Cell 1223	data1	3232	1367	13	13
Cell 1224	data1	7472	2161	4	4
Cell 1225	data1	6285	1745	0	0
Cell 1226	data1	7941	1794	0	0
Cell 1227	data1	5390	1938	10	10
Cell 1228	data1	10812	3319	15	15
Cell 1229	data1	4492	1488	5	5
Cell 1230	data1	5931	1716	9	9
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Cell 1232	data1	4612	1597	6	6
Cell 1233	data1	3691	1361	10	10
Cell 1234	data1	9266	2331	3	3
Cell 1235	data1	13781	2969	11	11
Cell 1236	data1	7834	2161	12	12
Cell 1237	data1	4813	1881	2	2
Cell 1238	data1	5312	2110	4	4
Cell 1239	data1	2949	1321	1	1
Cell 1240	data1	5293	2212	2	2
Cell 1241	data1	5693	1458	9	9
Cell 1242	data1	5629	2008	1	1
Cell 1243	data1	6303	1774	13	13
Cell 1244	data1	4229	1497	7	7
Cell 1245	data1	3499	1280	5	5
Cell 1246	data1	5373	1958	7	7
Cell 1247	data1	4782	1577	10	10
Cell 1248	data1	4374	1712	0	0
Cell 1249	data1	4607	1746	8	8
Cell 1250	data1	9918	2781	15	15
Cell 1251	data1	2790	958	6	6
Cell 1252	data1	6122	1657	0	0
Cell 1253	data1	12430	2833	3	3
Cell 1254	data1	5615	2018	7	7
Cell 1255	data1	5846	1613	0	0
Cell 1256	data1	3968	1687	12	12
Cell 1257	data1	4229	1721	2	2
Cell 1258	data1	6075	1862	13	13
Cell 1259	data1	4153	1548	5	5
Cell 1260	data1	8437	1984	0	0
Cell 1261	data1	7356	1945	11	11
Cell 1262	data1	1956	1041	14	14
Cell 1263	data1	3602	1353	0	0
Cell 1264	data1	6257	1804	10	10
Cell 1265	data1	5482	1862	5	5
Cell 1266	data1	4455	1919	2	2
Cell 1267	data1	3822	1611	17	17
Cell 1268	data1	10194	2777	16	16
Cell 1269	data1	6826	2160	4	4



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Cell 1271	data1	5924	1837	0	0
Cell 1272	data1	9262	2394	0	0
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Cell 1274	data1	3886	1155	6	6
Cell 1275	data1	4606	1422	5	5
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Cell 1277	data1	3717	1363	10	10
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Cell 1280	data1	4193	1410	1	1
Cell 1281	data1	3764	1632	2	2
Cell 1282	data1	2902	1114	14	14
Cell 1283	data1	5092	1769	1	1
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Cell 1285	data1	2869	1395	2	2
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Cell 1290	data1	4594	1471	6	6
Cell 1291	data1	1925	1015	11	11
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Cell 1293	data1	3510	1393	4	4
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Cell 1304	data1	5033	1491	0	0
Cell 1305	data1	6322	1663	10	10
Cell 1306	data1	6067	1674	10	10
Cell 1307	data1	12101	2906	15	15
Cell 1308	data1	6138	2438	2	2
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Cell 1313	data1	6155	2003	1	1
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Cell 1315	data1	8592	2428	3	3
Cell 1316	data1	9151	2106	0	0
Cell 1317	data1	7614	2070	3	3
Cell 1318	data1	5492	2214	2	2
Cell 1319	data1	4951	1399	9	9
Cell 1320	data1	2872	957	11	11
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Cell 1324	data1	6481	2122	9	9

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Cell 1326	data1	8675	2321	3	3
Cell 1327	data1	4564	1518	0	0
Cell 1328	data1	4123	1672	8	8
Cell 1329	data1	7035	2058	0	0
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Cell 1331	data1	5320	1517	10	10
Cell 1332	data1	6427	2102	12	12
Cell 1333	data1	8009	2161	13	13
Cell 1334	data1	3854	1541	7	7
Cell 1335	data1	4721	1846	7	7
Cell 1336	data1	4801	1651	11	11
Cell 1337	data1	4496	1683	10	10
Cell 1338	data1	10478	2609	3	3
Cell 1339	data1	5214	1526	10	10
Cell 1340	data1	8764	2247	0	0
Cell 1341	data1	5473	1759	0	0
Cell 1342	data1	3713	1209	5	5
Cell 1343	data1	3940	1478	6	6
Cell 1344	data1	3777	1241	0	0
Cell 1345	data1	5567	1754	6	6
Cell 1346	data1	9430	2708	12	12
Cell 1347	data1	4056	1142	11	11
Cell 1348	data1	11448	3083	15	15
Cell 1349	data1	3698	1413	16	16
Cell 1350	data1	7727	2071	3	3
Cell 1351	data1	4727	1440	0	0
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Cell 1353	data1	3849	1363	5	5
Cell 1354	data1	3775	1377	14	14
Cell 1355	data1	6344	1747	9	9
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Cell 1357	data1	4180	1301	4	4
Cell 1358	data1	4572	1865	8	8
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Cell 1366	data1	2559	911	14	14
Cell 1367	data1	5369	1659	0	0
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Cell 1369	data1	1753	812	17	17
Cell 1370	data1	3307	1277	16	16
Cell 1371	data1	11032	2868	2	2
Cell 1372	data1	4544	1598	5	5
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Cell 1374	data1	8185	2609	16	16
Cell 1375	data1	1558	928	14	14

Cell 1376	data1	5184	1559	0	0
Cell 1378	data1	4822	1331	0	0
Cell 1379	data1	5829	1687	10	10
Cell 1380	data1	11380	3034	11	11
Cell 1381	data1	4600	1648	7	7
Cell 1382	data1	1238	643	14	14
Cell 1383	data1	4951	1466	10	10
Cell 1384	data1	3927	1662	2	2
Cell 1385	data1	4866	1626	10	10
Cell 1386	data1	3531	1398	5	5
Cell 1387	data1	5622	1902	4	4
Cell 1388	data1	3702	1494	11	11
Cell 1389	data1	3993	1633	7	7
Cell 1390	data1	6144	1783	10	10
Cell 1391	data1	1737	1040	14	14
Cell 1392	data1	5083	2144	2	2
Cell 1393	data1	4860	2046	2	2
Cell 1394	data1	1950	866	14	14
Cell 1397	data1	3337	1200	6	6
Cell 1398	data1	5163	2057	4	4
Cell 1399	data1	3103	1599	8	8
Cell 1400	data1	5398	1695	5	5
Cell 1401	data1	2923	1225	4	4
Cell 1402	data1	4034	1539	3	3
Cell 1404	data1	2038	910	11	11
Cell 1405	data1	12252	3124	0	0
Cell 1406	data1	3998	1542	1	1
Cell 1407	data1	10851	2876	3	3
Cell 1408	data1	3900	1394	3	3
Cell 1409	data1	5122	2149	7	7
Cell 1410	data1	6016	1911	0	0
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Cell 1412	data1	3946	1344	17	17
Cell 1413	data1	4816	1635	6	6
Cell 1414	data1	2253	1146	2	2
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Cell 1419	data1	5608	1830	9	9
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Cell 1423	data1	1231	578	15	15
Cell 1424	data1	5560	1745	1	1
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Cell 1427	data1	3275	996	14	14
Cell 1428	data1	3837	1377	5	5
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Cell 1435	data1	6309	1756	10	10
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Cell 1446	data1	5027	1432	9	9
Cell 1447	data1	4832	2132	2	2
Cell 1448	data1	3212	1258	5	5
Cell 1449	data1	6727	1877	6	6
Cell 1450	data1	6353	1971	14	14
Cell 1451	data1	9247	2350	4	4
Cell 1452	data1	5486	1284	9	9
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Cell 1457	data1	6384	1831	1	1
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Cell 1460	data1	4148	1476	9	9
Cell 1461	data1	6352	1863	13	13
Cell 1462	data1	5793	1721	0	0
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Cell 1464	data1	3404	1184	4	4
Cell 1465	data1	4503	1455	10	10
Cell 1466	data1	4308	1735	8	8
Cell 1467	data1	3394	1262	5	5
Cell 1468	data1	3983	1331	5	5
Cell 1469	data1	5930	1979	1	1
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Cell 1473	data1	6565	2525	2	2
Cell 1475	data1	4452	1562	10	10
Cell 1476	data1	629	396	14	14
Cell 1477	data1	4733	1645	6	6
Cell 1478	data1	6513	2062	4	4
Cell 1479	data1	14922	3278	18	18
Cell 1480	data1	5002	1512	0	0
Cell 1481	data1	4558	1571	9	9
Cell 1482	data1	3798	1503	4	4
Cell 1483	data1	3467	1175	6	6
Cell 1484	data1	3908	1270	10	10
Cell 1485	data1	3789	1313	1	1
Cell 1486	data1	3927	1689	7	7

Cell 1487	data1	11537	2695	15	15
Cell 1488	data1	6731	1696	1	1
Cell 1489	data1	13445	3372	15	15
Cell 1490	data1	9221	2509	4	4
Cell 1491	data1	9480	2302	3	3
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Cell 1493	data1	4045	1260	9	9
Cell 1494	data1	4236	1328	9	9
Cell 1495	data1	4499	1827	4	4
Cell 1497	data1	5305	1798	3	3
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Cell 1499	data1	5435	1815	11	11
Cell 1500	data1	4186	1627	2	2
Cell 1501	data1	3968	1584	8	8
Cell 1502	data1	4598	1292	5	5
Cell 1503	data1	5782	1699	0	0
Cell 1505	data1	4953	1880	4	4
Cell 1506	data1	8078	1863	0	0
Cell 1507	data1	4589	1746	8	8
Cell 1508	data1	5695	1537	0	0
Cell 1509	data1	13281	3353	15	15
Cell 1510	data1	11425	2808	16	16
Cell 1511	data1	7820	2366	4	4
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Cell 1517	data1	5569	1768	1	1
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Cell 1522	data1	5345	1494	0	0
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Cell 1524	data1	11311	2496	11	11
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Cell 1528	data1	8028	2096	13	13
Cell 1529	data1	4165	1677	5	5
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Cell 1532	data1	2102	790	6	6
Cell 1533	data1	6287	1765	4	4
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Cell 1535	data1	4550	1292	9	9
Cell 1536	data1	977	611	14	14
Cell 1537	data1	4565	1974	2	2
Cell 1538	data1	4399	1685	7	7
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Cell 1540	data1	3749	1525	3	3

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Cell 1543	data1	7796	2925	7	7
Cell 1544	data1	6995	1954	1	1
Cell 1545	data1	4786	2040	2	2
Cell 1546	data1	5626	1884	9	9
Cell 1547	data1	6857	2068	0	0
Cell 1548	data1	6676	2183	4	4
Cell 1549	data1	6625	2161	0	0
Cell 1550	data1	6422	1774	1	1
Cell 1551	data1	5547	1485	0	0
Cell 1552	data1	6744	1860	3	3
Cell 1553	data1	6815	1504	0	0
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Cell 1555	data1	2892	930	11	11
Cell 1556	data1	4427	1628	2	2
Cell 1557	data1	7010	1816	0	0
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Cell 1559	data1	8423	2019	4	4
Cell 1560	data1	8009	2052	5	5
Cell 1561	data1	2089	1087	17	17
Cell 1562	data1	6188	1940	14	14
Cell 1563	data1	4068	1486	4	4
Cell 1564	data1	5799	1474	0	0
Cell 1565	data1	6965	2286	16	16
Cell 1566	data1	5252	1809	9	9
Cell 1567	data1	7083	2288	0	0
Cell 1568	data1	2595	1195	14	14
Cell 1569	data1	10630	2709	12	12
Cell 1570	data1	4047	1750	7	7
Cell 1571	data1	3713	1773	8	8
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Cell 1574	data1	6509	1661	0	0
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Cell 1576	data1	8787	2227	9	9
Cell 1577	data1	8228	2346	12	12
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Cell 1580	data1	4461	1770	2	2
Cell 1581	data1	4847	1508	20	20
Cell 1582	data1	4691	1350	5	5
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Cell 1584	data1	4302	1620	5	5
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Cell 1588	data1	7002	1736	13	13
Cell 1589	data1	3833	1348	5	5
Cell 1590	data1	3649	1348	0	0
Cell 1591	data1	8164	2032	13	13
Cell 1592	data1	3900	1729	2	2

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Cell 1596	data1	5576	2975	15	15
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Cell 1600	data1	5017	1377	1	1
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Cell 1602	data1	5527	1774	5	5
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Cell 1609	data1	3218	1199	14	14
Cell 1610	data1	3532	1368	0	0
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Cell 1613	data1	9014	2610	12	12
Cell 1614	data1	9100	2448	3	3
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Cell 1623	data1	2824	1416	8	8
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Cell 1626	data1	4777	1571	1	1
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Cell 1628	data1	4954	1578	0	0
Cell 1629	data1	3178	1382	2	2
Cell 1630	data1	3153	1140	3	3
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Cell 1632	data1	2070	1204	2	2
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Cell 1642	data1	4990	1715	10	10
Cell 1643	data1	12702	2597	0	0

Cell 1644	data1	6481	1894	1	1
Cell 1645	data1	4847	1591	5	5
Cell 1646	data1	9101	2960	16	16
Cell 1647	data1	5157	1480	6	6
Cell 1648	data1	4978	1482	9	9
Cell 1649	data1	5951	1976	1	1
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Cell 1652	data1	7629	2062	9	9
Cell 1654	data1	5792	1580	9	9
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Cell 1662	data1	7905	2279	12	12
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Cell 1664	data1	7442	2054	0	0
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Cell 1666	data1	5421	1654	4	4
Cell 1667	data1	7352	2091	3	3
Cell 1668	data1	5880	1797	0	0
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Cell 1671	data1	4178	1680	8	8
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Cell 1674	data1	7696	2605	8	8
Cell 1675	data1	4216	1516	13	13
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Cell 1677	data1	3517	1299	7	7
Cell 1678	data1	8056	2069	13	13
Cell 1679	data1	8905	2248	3	3
Cell 1680	data1	850	542	7	7
Cell 1681	data1	6981	2355	11	11
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Cell 1684	data1	14695	3391	15	15
Cell 1685	data1	8527	2079	9	9
Cell 1686	data1	6226	2009	5	5
Cell 1687	data1	586	424	14	14
Cell 1688	data1	4580	1845	4	4
Cell 1689	data1	10592	2632	15	15
Cell 1690	data1	4724	1484	5	5
Cell 1691	data1	4624	1684	0	0
Cell 1692	data1	1092	581	1	1
Cell 1693	data1	4755	1630	4	4
Cell 1694	data1	8143	2167	0	0
Cell 1695	data1	523	416	14	14



Cell 1696	data1	9577	2717	4	4
Cell 1697	data1	7301	2029	1	1
Cell 1698	data1	3767	1229	0	0
Cell 1699	data1	4206	1772	5	5
Cell 1700	data1	6860	1861	1	1
Cell 1701	data1	6515	1907	3	3
Cell 1702	data1	2699	983	6	6
Cell 1704	data1	8583	2373	3	3
Cell 1705	data1	2788	1570	19	19
Cell 1706	data1	3095	1333	8	8
Cell 1707	data1	4647	1336	1	1
Cell 1708	data1	3953	1416	11	11
Cell 1709	data1	6156	1672	0	0
Cell 1710	data1	4706	1776	2	2
Cell 1711	data1	4820	1578	1	1
Cell 1712	data1	7115	2259	12	12
Cell 1713	data1	5534	1692	0	0
Cell 1714	data1	3209	1176	4	4
Cell 1715	data1	5236	1576	0	0
Cell 1716	data1	2744	1169	4	4
Cell 1717	data1	1618	899	4	4
Cell 1718	data1	3288	1425	4	4
Cell 1719	data1	5696	1615	0	0
Cell 1720	data1	5287	1776	1	1
Cell 1721	data1	4882	1520	0	0
Cell 1722	data1	7327	2451	18	18
Cell 1723	data1	4416	1740	7	7
Cell 1724	data1	1872	811	6	6
Cell 1725	data1	3309	1315	14	14
Cell 1726	data1	4248	1722	7	7
Cell 1727	data1	4624	1571	3	3
Cell 1728	data1	4547	1523	6	6
Cell 1729	data1	5302	1530	0	0
Cell 1730	data1	3949	1288	6	6
Cell 1731	data1	7398	2256	12	12
Cell 1732	data1	3734	1645	2	2
Cell 1733	data1	6311	1819	3	3
Cell 1734	data1	1205	584	4	4
Cell 1735	data1	6882	1992	1	1
Cell 1736	data1	4852	1645	10	10
Cell 1737	data1	9380	2220	3	3
Cell 1739	data1	4673	1645	7	7
Cell 1740	data1	5108	1508	1	1
Cell 1741	data1	5493	1525	0	0
Cell 1742	data1	5316	1932	7	7
Cell 1743	data1	3928	1135	9	9
Cell 1744	data1	5312	1657	4	4
Cell 1745	data1	3202	1231	7	7
Cell 1746	data1	9529	2417	5	5
Cell 1747	data1	3945	1439	5	5
Cell 1748	data1	4713	1511	13	13

Cell 1749	data1	7361	1909	0	0
Cell 1750	data1	5266	1623	10	10
Cell 1751	data1	4249	1636	8	8
Cell 1753	data1	4123	1641	7	7
Cell 1754	data1	4255	1907	2	2
Cell 1755	data1	4371	1674	2	2
Cell 1756	data1	4449	1693	7	7
Cell 1757	data1	7094	1976	0	0
Cell 1758	data1	4101	1548	5	5
Cell 1759	data1	11710	2989	13	13
Cell 1760	data1	12674	3049	18	18
Cell 1761	data1	4336	1410	4	4
Cell 1762	data1	4368	1869	6	6
Cell 1763	data1	4729	1931	7	7
Cell 1764	data1	8429	2095	9	9
Cell 1765	data1	5621	1830	3	3
Cell 1766	data1	6234	2159	5	5
Cell 1767	data1	2775	1243	1	1
Cell 1768	data1	6220	1638	0	0
Cell 1769	data1	4290	1522	5	5
Cell 1770	data1	2772	1214	13	13
Cell 1771	data1	5354	1765	13	13
Cell 1772	data1	6905	1944	4	4
Cell 1773	data1	3622	1563	2	2
Cell 1774	data1	7081	2200	3	3
Cell 1775	data1	7065	2000	3	3
Cell 1776	data1	3784	1512	2	2
Cell 1777	data1	1972	1223	14	14
Cell 1778	data1	3856	1173	6	6
Cell 1779	data1	7819	2512	12	12
Cell 1780	data1	3971	1768	12	12
Cell 1781	data1	7443	2219	4	4
Cell 1782	data1	5068	1707	1	1
Cell 1783	data1	6014	1677	0	0
Cell 1784	data1	2909	1505	2	2
Cell 1785	data1	3740	1787	2	2
Cell 1787	data1	4467	1729	8	8
Cell 1788	data1	1981	604	11	11
Cell 1789	data1	3337	1338	5	5
Cell 1790	data1	3797	1544	9	9
Cell 1791	data1	4895	1794	3	3
Cell 1792	data1	5437	2205	2	2
Cell 1793	data1	4005	1383	10	10
Cell 1794	data1	5423	2251	2	2
Cell 1795	data1	7010	2055	3	3
Cell 1796	data1	1041	693	19	19
Cell 1797	data1	3586	1493	8	8
Cell 1798	data1	4774	1534	9	9
Cell 1799	data1	4412	1578	8	8
Cell 1800	data1	5186	1597	5	5
Cell 1801	data1	9360	2216	3	3

Cell 1802	data1	5671	1767	3	3
Cell 1803	data1	6037	1829	7	7
Cell 1804	data1	724	472	14	14
Cell 1805	data1	4345	1761	1	1
Cell 1806	data1	4301	1424	13	13
Cell 1807	data1	6260	1853	0	0
Cell 1808	data1	3776	1398	7	7
Cell 1809	data1	5405	1505	1	1
Cell 1810	data1	5888	1823	3	3
Cell 1811	data1	4246	1713	8	8
Cell 1812	data1	4899	1403	10	10
Cell 1813	data1	2570	1012	17	17
Cell 1814	data1	7002	2132	3	3
Cell 1815	data1	7164	2301	12	12
Cell 1816	data1	8418	2615	1	1
Cell 1817	data1	5446	1798	13	13
Cell 1818	data1	5496	2242	2	2
Cell 1819	data1	3588	1513	7	7
Cell 1820	data1	6270	1750	13	13
Cell 1821	data1	5894	1621	0	0
Cell 1822	data1	6448	1955	6	6
Cell 1823	data1	3912	1539	8	8
Cell 1824	data1	4401	1794	8	8
Cell 1825	data1	4129	1799	2	2
Cell 1826	data1	5826	1660	0	0
Cell 1827	data1	831	528	14	14
Cell 1828	data1	14066	3177	15	15
Cell 1829	data1	4304	1644	3	3
Cell 1830	data1	12246	3068	18	18
Cell 1831	data1	6488	1616	0	0
Cell 1832	data1	3359	1542	2	2
Cell 1833	data1	5801	1852	0	0
Cell 1834	data1	12132	3021	16	16
Cell 1835	data1	4719	1558	3	3
Cell 1836	data1	3857	1338	7	7
Cell 1837	data1	3767	1436	1	1
Cell 1838	data1	6166	1502	9	9
Cell 1839	data1	4595	1449	0	0
Cell 1840	data1	5285	1584	4	4
Cell 1841	data1	2473	945	13	13
Cell 1842	data1	6322	1829	0	0
Cell 1843	data1	3224	1120	13	13
Cell 1844	data1	2770	1058	11	11
Cell 1845	data1	9559	2596	16	16
Cell 1847	data1	5307	1855	7	7
Cell 1848	data1	6915	2046	13	13
Cell 1849	data1	4424	1379	1	1
Cell 1850	data1	5293	1914	9	9
Cell 1851	data1	5662	1718	10	10
Cell 1852	data1	8048	2485	12	12
Cell 1853	data1	3963	1429	7	7

Cell 1854	data1	3995	1722	2	2
Cell 1855	data1	4342	1757	7	7
Cell 1856	data1	4622	1435	1	1
Cell 1857	data1	5427	1609	10	10
Cell 1858	data1	12638	3027	11	11
Cell 1859	data1	6044	2066	12	12
Cell 1860	data1	5850	2230	8	8
Cell 1861	data1	6301	1611	0	0
Cell 1863	data1	3393	1254	3	3
Cell 1864	data1	14580	3392	15	15
Cell 1865	data1	8374	2292	3	3
Cell 1866	data1	5910	1820	3	3
Cell 1867	data1	2806	991	10	10
Cell 1868	data1	11344	2602	3	3
Cell 1870	data1	1885	968	14	14
Cell 1871	data1	3863	1660	2	2
Cell 1872	data1	2934	1173	5	5
Cell 1873	data1	1940	848	1	1
Cell 1874	data1	1919	771	13	13
Cell 1876	data1	2766	1350	7	7
Cell 1877	data1	2763	1065	1	1
Cell 1878	data1	3704	1501	2	2
Cell 1879	data1	5512	1378	6	6
Cell 1880	data1	5582	1926	11	11
Cell 1881	data1	4167	1372	4	4
Cell 1882	data1	10068	2607	3	3
Cell 1883	data1	4683	1875	4	4
Cell 1884	data1	2955	1067	0	0
Cell 1885	data1	6057	1469	0	0
Cell 1886	data1	5580	2314	2	2
Cell 1887	data1	568	310	14	14
Cell 1888	data1	5602	1666	3	3
Cell 1889	data1	12705	902	14	14
Cell 1890	data1	6261	2189	2	2
Cell 1891	data1	3689	1676	2	2
Cell 1892	data1	11145	2775	3	3
Cell 1893	data1	5527	1865	3	3
Cell 1894	data1	5202	1620	9	9
Cell 1895	data1	3067	1217	1	1
Cell 1896	data1	4803	1907	8	8
Cell 1897	data1	6609	1759	1	1
Cell 1898	data1	5315	2240	2	2
Cell 1899	data1	13011	3072	12	12
Cell 1900	data1	4690	1704	13	13
Cell 1901	data1	6282	1783	0	0
Cell 1902	data1	3454	1349	8	8
Cell 1903	data1	3173	1253	6	6
Cell 1904	data1	7482	2182	3	3
Cell 1905	data1	8510	2513	12	12
Cell 1906	data1	3610	1184	5	5
Cell 1907	data1	3598	1384	5	5

Cell 1908	data1	4825	1939	2	2
Cell 1909	data1	5567	1540	0	0
Cell 1910	data1	3869	1491	5	5
Cell 1911	data1	2906	1313	3	3
Cell 1912	data1	8997	2594	4	4
Cell 1913	data1	3515	1508	7	7
Cell 1914	data1	6326	1830	0	0
Cell 1915	data1	5073	1623	10	10
Cell 1916	data1	5211	1529	6	6
Cell 1917	data1	5577	1456	0	0
Cell 1918	data1	11561	3119	11	11
Cell 1919	data1	6442	2273	4	4
Cell 1920	data1	3122	1119	13	13
Cell 1921	data1	2802	1159	8	8
Cell 1922	data1	3998	1625	2	2
Cell 1923	data1	2916	1291	3	3
Cell 1924	data1	4556	1979	2	2
Cell 1925	data1	4370	1831	8	8
Cell 1926	data1	14164	3030	3	3
Cell 1927	data1	3579	1472	8	8
Cell 1928	data1	7494	2147	3	3
Cell 1929	data1	4925	1692	1	1
Cell 1930	data1	2782	1197	11	11
Cell 1931	data1	10277	2760	15	15
Cell 1932	data1	4718	2625	15	15
Cell 1933	data1	10392	2640	3	3
Cell 1934	data1	12038	2654	1	1
Cell 1935	data1	1543	764	15	15
Cell 1936	data1	2339	1218	7	7
Cell 1937	data1	3837	1798	2	2
Cell 1938	data1	5154	1505	9	9
Cell 1939	data1	3986	1439	10	10
Cell 1940	data1	4472	1541	0	0
Cell 1941	data1	8388	2329	13	13
Cell 1942	data1	1578	930	14	14
Cell 1943	data1	6496	1898	1	1
Cell 1944	data1	10200	2776	6	6
Cell 1945	data1	8370	2385	12	12
Cell 1946	data1	6654	1948	3	3
Cell 1947	data1	3594	1517	17	17
Cell 1948	data1	5696	1647	1	1
Cell 1949	data1	7919	2130	3	3
Cell 1950	data1	3212	1249	7	7
Cell 1951	data1	5497	1581	1	1
Cell 1952	data1	8048	2248	1	1
Cell 1953	data1	14895	3738	6	6
Cell 1954	data1	1728	1015	1	1
Cell 1955	data1	4086	1474	5	5
Cell 1956	data1	4662	1255	9	9
Cell 1957	data1	2761	1030	10	10
Cell 1958	data1	6631	1856	15	15

Cell 1959	data1	3301	1329	8	8
Cell 1960	data1	2136	1508	15	15
Cell 1961	data1	7126	2092	3	3
Cell 1962	data1	8611	2635	12	12
Cell 1963	data1	2947	1158	4	4
Cell 1964	data1	3387	1423	6	6
Cell 1965	data1	4450	1585	7	7
Cell 1966	data1	3105	1049	5	5
Cell 1967	data1	7045	1771	9	9
Cell 1968	data1	3781	1382	7	7
Cell 1969	data1	7753	2001	0	0
Cell 1970	data1	4899	1366	1	1
Cell 1971	data1	10073	2248	13	13
Cell 1972	data1	5798	2273	2	2
Cell 1973	data1	4101	1744	8	8
Cell 1974	data1	7063	2280	12	12
Cell 1975	data1	2222	933	17	17
Cell 1976	data1	6731	1943	0	0
Cell 1977	data1	6767	1779	10	10
Cell 1978	data1	800	556	19	19
Cell 1979	data1	5755	1604	3	3
Cell 1980	data1	9464	2424	16	16
Cell 1981	data1	3398	1232	11	11
Cell 1982	data1	4334	1551	5	5
Cell 1983	data1	13704	3027	15	15
Cell 1984	data1	13521	3286	15	15
Cell 1985	data1	4120	1762	2	2
Cell 1986	data1	5510	1331	11	11
Cell 1987	data1	3288	1781	19	19
Cell 1988	data1	6697	2013	4	4
Cell 1989	data1	4706	2087	2	2
Cell 1990	data1	5450	1879	1	1
Cell 1991	data1	4182	1475	15	15
Cell 1992	data1	12255	3009	3	3
Cell 1993	data1	5376	1655	1	1
Cell 1994	data1	10122	2764	4	4
Cell 1995	data1	3932	1679	8	8
Cell 1996	data1	1778	835	11	11
Cell 1997	data1	4937	1901	8	8
Cell 1998	data1	4335	1638	7	7
Cell 1999	data1	742	442	4	4
Cell 2000	data1	6463	1457	0	0
Cell 2001	data1	4973	1303	9	9
Cell 2002	data1	5925	1756	4	4
Cell 2003	data1	5571	1570	10	10
Cell 2004	data1	6648	2016	12	12
Cell 2005	data1	4374	1647	8	8
Cell 2006	data1	6775	2063	4	4
Cell 2007	data1	10507	2782	3	3
Cell 2008	data1	4116	1826	2	2
Cell 2009	data1	3393	1228	11	11

Cell 2010	data1	12474	2920	3	3
Cell 2011	data1	3600	1292	1	1
Cell 2012	data1	4387	1441	5	5
Cell 2013	data1	3862	1744	2	2
Cell 2014	data1	6097	1869	10	10
Cell 2015	data1	5039	2089	2	2
Cell 2016	data1	4292	1435	5	5
Cell 2018	data1	2947	1052	6	6
Cell 2019	data1	5593	1668	1	1
Cell 2020	data1	5543	1439	6	6
Cell 2022	data1	6360	1722	1	1
Cell 2023	data1	8643	2423	3	3
Cell 2024	data1	4387	1473	10	10
Cell 2025	data1	5463	1585	1	1
Cell 2026	data1	4184	1733	2	2
Cell 2027	data1	5306	1625	1	1
Cell 2028	data1	3886	1368	5	5
Cell 2029	data1	5002	1480	0	0
Cell 2030	data1	4159	1698	8	8
Cell 2031	data1	4357	1481	1	1
Cell 2032	data1	3520	1351	7	7
Cell 2033	data1	11191	2901	3	3
Cell 2034	data1	4121	1552	6	6
Cell 2035	data1	4341	1613	5	5
Cell 2036	data1	1462	863	11	11
Cell 2037	data1	4779	1869	8	8
Cell 2038	data1	3768	1491	1	1
Cell 2039	data1	5812	1996	5	5
Cell 2040	data1	9521	2850	16	16
Cell 2041	data1	4133	1215	1	1
Cell 2042	data1	2802	1090	0	0
Cell 2043	data1	2879	1143	12	12
Cell 2044	data1	4452	1991	2	2
Cell 2045	data1	4542	1852	8	8
Cell 2046	data1	4159	1430	5	5
Cell 2047	data1	9385	2845	16	16
Cell 2048	data1	5171	2054	2	2
Cell 2049	data1	3669	1380	5	5
Cell 2050	data1	14833	3246	9	9
Cell 2051	data1	5143	1476	10	10
Cell 2052	data1	6342	1858	4	4
Cell 2053	data1	5517	1738	0	0
Cell 2054	data1	5150	1635	1	1
Cell 2055	data1	9356	2384	3	3
Cell 2056	data1	6067	2041	11	11
Cell 2057	data1	4729	1509	10	10
Cell 2058	data1	4680	1461	6	6
Cell 2059	data1	4636	1881	2	2
Cell 2060	data1	5106	1650	11	11
Cell 2061	data1	5494	1439	0	0
Cell 2062	data1	5435	1616	10	10

Cell 2063	data1	4147	1319	3	3
Cell 2064	data1	3722	1309	5	5
Cell 2066	data1	4166	1712	8	8
Cell 2068	data1	6195	1777	9	9
Cell 2070	data1	4778	1426	10	10
Cell 2071	data1	4514	1565	1	1
Cell 2073	data1	6218	1686	0	0
Cell 2075	data1	5331	1473	11	11
Cell 2076	data1	5680	1522	1	1
Cell 2077	data1	4883	1732	9	9
Cell 2078	data1	10893	2733	15	15
Cell 2079	data1	5030	1633	0	0
Cell 2080	data1	5724	1374	10	10
Cell 2081	data1	5459	1505	0	0
Cell 2082	data1	5386	1819	8	8
Cell 2084	data1	3529	1332	5	5
Cell 2085	data1	14860	3643	15	15
Cell 2086	data1	5045	1491	1	1
Cell 2087	data1	5150	1770	5	5
Cell 2088	data1	5950	2268	6	6
Cell 2089	data1	3338	1479	4	4
Cell 2090	data1	8833	3010	2	2
Cell 2091	data1	5694	2068	11	11
Cell 2092	data1	4933	1998	8	8
Cell 2093	data1	2882	1356	15	15
Cell 2094	data1	3942	1361	7	7
Cell 2095	data1	2134	949	1	1
Cell 2096	data1	2449	1575	15	15
Cell 2097	data1	3243	1309	8	8
Cell 2098	data1	3834	1636	7	7
Cell 2099	data1	3868	1220	5	5
Cell 2100	data1	1553	752	7	7
Cell 2101	data1	4874	1172	9	9
Cell 2102	data1	6153	1662	11	11
Cell 2103	data1	5153	1224	9	9
Cell 2104	data1	10843	2542	11	11
Cell 2105	data1	4937	1770	10	10
Cell 2106	data1	3403	1143	6	6
Cell 2107	data1	3163	1228	5	5
Cell 2108	data1	3906	1416	10	10
Cell 2109	data1	2189	998	7	7
Cell 2110	data1	4017	1650	8	8
Cell 2111	data1	4126	1465	5	5
Cell 2112	data1	2623	1003	6	6
Cell 2113	data1	8132	1944	15	15
Cell 2114	data1	12851	2855	18	18
Cell 2115	data1	2963	1097	1	1
Cell 2116	data1	6191	1766	3	3
Cell 2118	data1	5073	1615	10	10
Cell 2119	data1	5375	1912	7	7
Cell 2120	data1	8469	2308	11	11



Cell 2121	data1	4328	1604	7	7
Cell 2122	data1	6542	1497	11	11
Cell 2123	data1	4272	1514	7	7
Cell 2124	data1	4996	1782	7	7
Cell 2125	data1	4015	1645	2	2
Cell 2127	data1	12413	2941	0	0
Cell 2128	data1	5047	1941	7	7
Cell 2129	data1	5400	1618	0	0
Cell 2131	data1	7669	1963	4	4
Cell 2132	data1	10941	2941	12	12
Cell 2133	data1	4597	1773	8	8
Cell 2134	data1	3756	1646	8	8
Cell 2135	data1	6451	2004	3	3
Cell 2136	data1	11511	2666	15	15
Cell 2137	data1	6872	2403	12	12
Cell 2138	data1	5342	1308	1	1
Cell 2139	data1	2342	1067	3	3
Cell 2140	data1	4825	1607	3	3
Cell 2141	data1	10685	2622	13	13
Cell 2142	data1	4082	1456	13	13
Cell 2143	data1	3858	1584	8	8
Cell 2144	data1	3872	1385	3	3
Cell 2145	data1	3090	1064	5	5
Cell 2146	data1	3411	1455	11	11
Cell 2147	data1	4580	1676	7	7
Cell 2148	data1	5610	1943	9	9
Cell 2149	data1	4787	1830	8	8
Cell 2150	data1	8652	2866	8	8
Cell 2151	data1	4659	1542	7	7
Cell 2152	data1	1636	824	14	14
Cell 2153	data1	4394	1484	10	10
Cell 2154	data1	3575	1317	1	1
Cell 2155	data1	8671	2786	12	12
Cell 2157	data1	5846	1881	4	4
Cell 2158	data1	3142	1158	6	6
Cell 2159	data1	5749	1677	4	4
Cell 2160	data1	5578	2042	8	8
Cell 2161	data1	6625	2047	5	5
Cell 2162	data1	5445	1695	10	10
Cell 2163	data1	4202	1404	0	0
Cell 2164	data1	6331	2087	4	4
Cell 2165	data1	4860	1779	9	9
Cell 2167	data1	3140	1507	2	2
Cell 2168	data1	11000	3616	2	2
Cell 2169	data1	9783	2667	4	4
Cell 2170	data1	3710	1211	13	13
Cell 2171	data1	12159	2885	12	12
Cell 2172	data1	4438	1826	7	7
Cell 2173	data1	3577	1111	9	9
Cell 2174	data1	4234	1697	7	7
Cell 2175	data1	6845	1783	9	9

Cell 2176	data1	4705	1656	5	5
Cell 2177	data1	5782	1846	1	1
Cell 2178	data1	2571	1133	5	5
Cell 2181	data1	5944	1715	6	6
Cell 2182	data1	3616	1370	4	4
Cell 2183	data1	6327	1920	0	0
Cell 2184	data1	3631	1256	4	4
Cell 2185	data1	4806	1888	2	2
Cell 2186	data1	3803	1281	7	7
Cell 2187	data1	2389	1058	9	9
Cell 2188	data1	5248	1898	10	10
Cell 2189	data1	4832	2125	2	2
Cell 2190	data1	4683	1637	0	0
Cell 2191	data1	6127	2268	2	2
Cell 2192	data1	8432	2143	6	6
Cell 2193	data1	6963	1921	0	0
Cell 2194	data1	4135	1463	10	10
Cell 2195	data1	6839	1973	6	6
Cell 2196	data1	7704	2229	3	3
Cell 2197	data1	768	428	20	20
Cell 2198	data1	5136	1624	3	3
Cell 2199	data1	4962	1512	0	0
Cell 2200	data1	10387	2710	0	0
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Cell 2202	data1	2266	861	11	11
Cell 2203	data1	14165	3172	1	1
Cell 2204	data1	8424	2389	3	3
Cell 2205	data1	5870	1582	0	0
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Cell 2207	data1	13829	3405	15	15
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Cell 2209	data1	9657	2851	12	12
Cell 2210	data1	6051	1998	12	12
Cell 2211	data1	1560	806	6	6
Cell 2212	data1	3102	1085	6	6
Cell 2213	data1	4133	1465	0	0
Cell 2214	data1	9173	2872	12	12
Cell 2215	data1	8347	2206	13	13
Cell 2216	data1	6893	2284	15	15
Cell 2217	data1	4200	1560	4	4
Cell 2219	data1	2305	955	4	4
Cell 2220	data1	3765	1207	5	5
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Cell 2223	data1	8018	2356	12	12
Cell 2224	data1	4190	1387	5	5
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Cell 2237	data1	6249	1756	0	0
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Cell 2240	data1	3773	1304	4	4
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Cell 2245	data1	6038	1678	1	1
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Cell 2257	data1	5971	1669	0	0
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Cell 2259	data1	4164	1637	8	8
Cell 2260	data1	6498	2141	0	0
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Cell 2267	data1	6158	1676	13	13
Cell 2268	data1	5505	1588	0	0
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Cell 2270	data1	2099	882	5	5
Cell 2271	data1	4951	1691	5	5
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Cell 2274	data1	4243	1471	3	3
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Cell 2282	data1	5295	1614	1	1
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Cell 2299	data1	891	606	1	1
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Cell 2306	data1	7473	2051	13	13
Cell 2307	data1	13140	3416	15	15
Cell 2308	data1	3395	1348	11	11
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Cell 2312	data1	7432	1913	0	0
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Cell 2317	data1	1844	995	12	12
Cell 2318	data1	4779	1482	5	5
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Cell 2327	data1	3421	1402	8	8
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Cell 2340	data1	4712	1647	4	4
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Cell 2343	data1	4618	1778	8	8
Cell 2344	data1	3003	1388	14	14
Cell 2345	data1	5436	1791	1	1
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Cell 2347	data1	1434	766	6	6
Cell 2348	data1	4752	1986	2	2
Cell 2349	data1	5617	1614	6	6
Cell 2350	data1	2908	1131	13	13
Cell 2351	data1	5673	1908	11	11
Cell 2352	data1	3685	1558	8	8
Cell 2353	data1	7564	2317	0	0
Cell 2354	data1	4216	1295	4	4
Cell 2356	data1	14608	3071	15	15
Cell 2357	data1	5053	1490	0	0
Cell 2358	data1	5236	1382	1	1
Cell 2359	data1	13284	3065	16	16
Cell 2360	data1	3122	1126	1	1
Cell 2361	data1	4467	1389	6	6
Cell 2362	data1	5300	1526	10	10
Cell 2363	data1	3431	1408	8	8
Cell 2364	data1	4489	1201	9	9
Cell 2365	data1	6307	1769	0	0
Cell 2366	data1	3975	1519	8	8
Cell 2367	data1	3841	1208	10	10
Cell 2368	data1	3555	1400	5	5
Cell 2369	data1	3217	1583	7	7
Cell 2370	data1	7477	2204	3	3
Cell 2371	data1	4594	1462	10	10
Cell 2372	data1	5120	1661	4	4
Cell 2373	data1	4934	1518	0	0
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Cell 2375	data1	2801	1005	11	11
Cell 2376	data1	2993	1250	8	8
Cell 2377	data1	7684	2212	4	4
Cell 2378	data1	4502	1588	4	4
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Cell 2381	data1	4065	1271	10	10
Cell 2383	data1	5012	1454	6	6
Cell 2384	data1	6391	2091	6	6
Cell 2385	data1	4869	1463	6	6
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Cell 2393	data1	3951	1338	5	5
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Cell 2395	data1	2265	985	5	5
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Cell 2397	data1	4070	1688	7	7
Cell 2398	data1	3453	1570	2	2
Cell 2400	data1	3751	1802	8	8
Cell 2401	data1	8327	2380	4	4
Cell 2402	data1	1479	636	4	4
Cell 2403	data1	5895	1802	0	0
Cell 2404	data1	4386	1691	2	2
Cell 2405	data1	3071	1258	4	4
Cell 2406	data1	4087	1522	7	7
Cell 2407	data1	4391	1480	7	7
Cell 2408	data1	11154	3274	6	6
Cell 2409	data1	3757	1526	14	14
Cell 2410	data1	6335	1927	9	9
Cell 2411	data1	5496	1857	3	3
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Cell 2413	data1	4338	1710	7	7
Cell 2414	data1	1774	747	4	4
Cell 2416	data1	14803	2965	15	15
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Cell 2418	data1	2872	1402	2	2
Cell 2419	data1	9582	2499	6	6
Cell 2420	data1	14642	3516	18	18
Cell 2421	data1	9018	2313	12	12
Cell 2422	data1	4074	1539	7	7
Cell 2423	data1	4582	1439	9	9
Cell 2424	data1	5384	1655	0	0
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Cell 2426	data1	3087	1313	13	13
Cell 2427	data1	12528	2834	13	13
Cell 2428	data1	4112	1570	4	4
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Cell 2435	data1	5202	1503	9	9
Cell 2436	data1	3960	1522	1	1
Cell 2437	data1	4552	1834	7	7
Cell 2438	data1	4863	1369	0	0
Cell 2439	data1	5146	1799	1	1
Cell 2440	data1	2520	1257	2	2
Cell 2441	data1	5877	1795	1	1
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Cell 2445	data1	4286	1491	3	3
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Cell 2447	data1	1098	660	14	14
Cell 2449	data1	4081	1215	1	1
Cell 2451	data1	14774	2970	15	15
Cell 2452	data1	5635	1775	1	1
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Cell 2455	data1	11059	2859	18	18
Cell 2456	data1	3562	1277	6	6
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Cell 2458	data1	5782	1645	1	1
Cell 2459	data1	9693	2559	12	12
Cell 2460	data1	2848	1057	0	0
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Cell 2463	data1	3460	1415	4	4
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Cell 2466	data1	11269	2530	11	11
Cell 2467	data1	8299	2041	4	4
Cell 2468	data1	11273	2634	15	15
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Cell 2470	data1	1712	727	14	14
Cell 2471	data1	7661	2209	12	12
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Cell 2476	data1	5965	1811	6	6
Cell 2477	data1	3871	1226	4	4
Cell 2478	data1	6423	1903	0	0
Cell 2479	data1	5064	1614	1	1
Cell 2480	data1	6184	1399	6	6
Cell 2481	data1	1506	618	4	4
Cell 2482	data1	5856	2279	8	8
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Cell 2502	data1	2765	1193	13	13
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Cell 2506	data1	669	341	4	4
Cell 2507	data1	3103	1336	6	6
Cell 2508	data1	6398	1685	9	9
Cell 2509	data1	5546	1627	9	9
Cell 2510	data1	5634	1734	5	5
Cell 2511	data1	6101	1818	0	0
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Cell 2514	data1	3789	1477	7	7
Cell 2515	data1	2581	889	6	6
Cell 2516	data1	2882	1132	13	13
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Cell 2518	data1	3081	1025	6	6
Cell 2519	data1	9788	2507	13	13
Cell 2520	data1	5080	2060	8	8
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Cell 2591	data1	3900	1415	0	0
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Cell 2594	data1	2631	991	1	1
Cell 2595	data1	4456	1715	15	15
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Cell 2602	data1	10723	2773	16	16
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Cell 2605	data1	1228	776	14	14

Cell 2606	data1	4578	1411	5	5
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Cell 2608	data1	7188	2250	12	12
Cell 2609	data1	5249	2262	2	2
Cell 2610	data1	7384	2393	11	11
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Cell 2616	data1	5733	1717	0	0
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Cell 2620	data1	4424	1570	5	5
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Cell 2635	data1	5081	1518	5	5
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Cell 2637	data1	4903	1659	1	1
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Cell 2641	data1	9259	2665	12	12
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Cell 2648	data1	1596	943	14	14
Cell 2649	data1	4010	1095	1	1
Cell 2650	data1	8682	2265	3	3
Cell 2651	data1	4806	1307	9	9
Cell 2652	data1	5071	1672	17	17
Cell 2653	data1	3797	1391	7	7
Cell 2654	data1	2781	1225	2	2
Cell 2655	data1	4162	1512	6	6
Cell 2656	data1	8890	2199	3	3
Cell 2657	data1	6753	1945	0	0

Cell 2658	data1	9450	2662	12	12
Cell 2659	data1	11663	2689	0	0
Cell 2660	data1	4435	1379	1	1
Cell 2661	data1	5269	1881	13	13
Cell 2662	data1	1301	735	11	11
Cell 2663	data1	4987	1795	8	8
Cell 2664	data1	3974	1773	2	2
Cell 2665	data1	3585	1563	2	2
Cell 2666	data1	6932	2083	3	3
Cell 2667	data1	5647	1720	1	1
Cell 2668	data1	8417	2647	12	12
Cell 2669	data1	5732	2057	0	0
Cell 2670	data1	5800	2208	8	8
Cell 2671	data1	7056	1714	0	0
Cell 2672	data1	4098	1300	6	6
Cell 2673	data1	4982	1547	0	0
Cell 2675	data1	5457	1571	9	9
Cell 2676	data1	2665	1290	2	2
Cell 2677	data1	2765	1057	5	5
Cell 2678	data1	8796	2328	3	3
Cell 2679	data1	6136	1823	1	1
Cell 2680	data1	6195	1526	9	9
Cell 2681	data1	4018	1654	2	2
Cell 2682	data1	3462	1308	17	17
Cell 2683	data1	4121	1814	8	8
Cell 2684	data1	10884	2876	12	12
Cell 2685	data1	5469	1455	6	6
Cell 2686	data1	2491	1144	8	8
Cell 2687	data1	7303	2033	3	3
Cell 2688	data1	2973	1076	13	13
Cell 2689	data1	5410	1601	1	1
Cell 2691	data1	4680	1703	9	9
Cell 2692	data1	5420	1815	9	9
Cell 2693	data1	7830	2209	13	13
Cell 2694	data1	6454	1745	0	0
Cell 2695	data1	1667	865	14	14
Cell 2696	data1	7490	2427	4	4
Cell 2697	data1	5940	1721	16	16
Cell 2698	data1	5312	1536	9	9
Cell 2699	data1	4670	1457	6	6
Cell 2700	data1	4726	1580	3	3
Cell 2701	data1	4105	1296	6	6
Cell 2702	data1	5468	1583	0	0
Cell 2703	data1	3428	1395	8	8
Cell 2705	data1	7047	2072	0	0
Cell 2706	data1	6879	2046	16	16
Cell 2707	data1	4067	1338	13	13
Cell 2708	data1	2923	1248	1	1
Cell 2709	data1	4586	1901	8	8
Cell 2710	data1	5630	1984	3	3
Cell 2711	data1	5045	1870	7	7

Cell 2712	data1	3279	1231	5	5
Cell 2713	data1	4126	1560	5	5
Cell 2714	data1	5432	1543	9	9
Cell 2715	data1	6013	1635	1	1
Cell 2716	data1	5412	1533	10	10
Cell 2717	data1	3332	1332	7	7
Cell 2718	data1	795	526	14	14
Cell 2719	data1	3793	1248	6	6
Cell 2720	data1	4344	1710	8	8
Cell 2721	data1	4191	1532	7	7
Cell 2722	data1	3955	1586	6	6
Cell 2723	data1	8108	2752	2	2
Cell 2724	data1	2065	883	5	5
Cell 2725	data1	4722	1991	8	8
Cell 2726	data1	7558	2229	10	10
Cell 2727	data1	3983	1317	13	13
Cell 2728	data1	1678	965	19	19
Cell 2729	data1	6417	2000	16	16
Cell 2730	data1	5955	1672	0	0
Cell 2731	data1	4180	1374	4	4
Cell 2732	data1	5642	1842	3	3
Cell 2733	data1	4465	1753	2	2
Cell 2734	data1	5768	1776	1	1
Cell 2735	data1	7624	2470	11	11
Cell 2736	data1	3973	1791	2	2
Cell 2737	data1	3005	1200	5	5
Cell 2738	data1	4074	1615	6	6
Cell 2739	data1	8066	2203	3	3
Cell 2740	data1	2636	1217	2	2
Cell 2741	data1	7712	2310	16	16
Cell 2742	data1	1662	1062	19	19
Cell 2743	data1	10225	2438	13	13
Cell 2744	data1	4066	1390	6	6
Cell 2745	data1	3843	1633	8	8
Cell 2746	data1	4498	1855	8	8
Cell 2747	data1	5155	1805	3	3
Cell 2748	data1	3074	1240	4	4
Cell 2749	data1	3884	1419	7	7
Cell 2750	data1	1882	1211	15	15
Cell 2751	data1	10901	2859	15	15
Cell 2752	data1	14743	3291	18	18
Cell 2753	data1	3931	1354	4	4
Cell 2754	data1	4678	1471	15	15
Cell 2755	data1	2767	1087	4	4
Cell 2756	data1	3231	1249	5	5
Cell 2757	data1	5113	1534	10	10
Cell 2758	data1	4734	1811	11	11
Cell 2759	data1	3258	1144	17	17
Cell 2760	data1	3058	1144	11	11
Cell 2761	data1	9290	2326	3	3
Cell 2762	data1	3030	1344	5	5

Cell 2763	data1	3247	1397	17	17
Cell 2764	data1	3152	1051	6	6
Cell 2765	data1	1421	669	15	15
Cell 2766	data1	1583	820	7	7
Cell 2767	data1	4781	1714	3	3
Cell 2768	data1	3983	1489	7	7
Cell 2769	data1	8110	2186	3	3
Cell 2770	data1	4342	1514	5	5
Cell 2771	data1	6604	1936	10	10
Cell 2772	data1	6789	2217	0	0
Cell 2773	data1	9725	2799	16	16
Cell 2774	data1	4216	1635	2	2
Cell 2775	data1	8999	2278	3	3
Cell 2776	data1	12340	2767	18	18
Cell 2777	data1	3170	1209	6	6
Cell 2778	data1	4031	1509	2	2
Cell 2779	data1	3607	1633	2	2
Cell 2780	data1	647	449	14	14
Cell 2781	data1	4002	1441	10	10
Cell 2782	data1	10805	2704	3	3
Cell 2783	data1	6781	2479	2	2
Cell 2784	data1	3437	1541	4	4
Cell 2785	data1	4066	1584	7	7
Cell 2786	data1	3765	1465	8	8
Cell 2787	data1	3805	1168	6	6
Cell 2788	data1	5159	1564	9	9
Cell 2789	data1	5277	1803	5	5
Cell 2790	data1	5367	1667	5	5
Cell 2791	data1	5695	1833	0	0

## cell\_type

Cell 1	Lymphocyte cell
Cell 2	Myeloid progenitor
Cell 3	Natural killer cell
Cell 4	Mucosal-associated invariant T cell
Cell 5	Dendritic cell
Cell 6	Plasmacytoid dendritic cell
Cell 7	Natural killer cell
Cell 8	Natural killer cell
Cell 9	Dendritic cell
Cell 10	Plasmacytoid dendritic cell
Cell 11	Dendritic cell
Cell 12	Lymphocyte cell
Cell 13	Lymphocyte cell
Cell 14	Dendritic cell
Cell 15	Plasma cell
Cell 16	Lymphocyte cell
Cell 17	Dendritic cell
Cell 18	Natural killer cell
Cell 19	Plasmacytoid dendritic cell
Cell 20	Lymphocyte cell
Cell 21	Plasma cell

Cell 22	Natural killer cell
Cell 23	Lymphocyte cell
Cell 24	Plasmacytoid dendritic cell
Cell 25	Plasma cell
Cell 26	Mucosal-associated invariant T cell
Cell 27	Plasmacytoid dendritic cell
Cell 28	Lymphocyte cell
Cell 29	Dendritic cell
Cell 30	Dendritic cell
Cell 31	Lymphocyte cell
Cell 32	Dendritic cell
Cell 33	Dendritic cell
Cell 34	Lymphocyte cell
Cell 35	Natural killer cell
Cell 36	Lymphocyte cell
Cell 38	Plasmacytoid dendritic cell
Cell 39	Lymphocyte cell
Cell 40	Lymphocyte cell
Cell 41	CD8 T cell
Cell 42	Dendritic cell
Cell 43	Lymphocyte cell
Cell 44	Lymphocyte cell
Cell 45	Dendritic cell
Cell 46	Lymphocyte cell
Cell 47	Dendritic cell
Cell 48	Lymphocyte cell
Cell 49	Dendritic cell
Cell 50	Lymphocyte cell
Cell 51	Lymphocyte cell
Cell 52	Lymphocyte cell
Cell 53	Dendritic cell
Cell 54	Lymphocyte cell
Cell 55	Natural killer cell
Cell 56	Lymphocyte cell
Cell 57	Lymphocyte cell
Cell 58	CD8 T cell
Cell 59	Plasmacytoid dendritic cell
Cell 60	Dendritic cell
Cell 61	Lymphocyte cell
Cell 62	Lymphocyte cell
Cell 63	Natural killer cell
Cell 64	Plasma cell
Cell 65	Hematopoietic stem cell
Cell 66	Lymphocyte cell
Cell 67	Dendritic cell
Cell 68	Dendritic cell
Cell 69	Lymphocyte cell
Cell 70	Natural killer cell
Cell 71	Natural killer cell
Cell 72	Natural killer cell
Cell 73	Non-classical monocyte cell

Cell 74	Dendritic cell
Cell 75	CD8 T cell
Cell 76	Lymphocyte cell
Cell 77	CD8 T cell
Cell 78	Natural killer cell
Cell 79	Mucosal-associated invariant T cell
Cell 80	Dendritic cell
Cell 82	Natural killer cell
Cell 83	CD8 T cell
Cell 84	Dendritic cell
Cell 85	Mucosal-associated invariant T cell
Cell 86	Dendritic cell
Cell 87	CD8 T cell
Cell 88	Hematopoietic stem cell
Cell 89	Lymphocyte cell
Cell 90	Natural killer cell
Cell 91	Plasma cell
Cell 92	Lymphocyte cell
Cell 93	Dendritic cell
Cell 94	Lymphocyte cell
Cell 95	Plasma cell
Cell 96	CD8 T cell
Cell 97	Lymphocyte cell
Cell 98	CD8 T cell
Cell 99	Lymphocyte cell
Cell 100	Lymphocyte cell
Cell 101	Lymphocyte cell
Cell 102	Natural killer cell
Cell 103	Natural killer cell
Cell 104	Lymphocyte cell
Cell 105	Myeloid progenitor
Cell 106	Lymphocyte cell
Cell 107	Lymphocyte cell
Cell 108	Lymphocyte cell
Cell 109	Lymphocyte cell
Cell 110	Dendritic cell
Cell 111	Dendritic cell
Cell 112	Hematopoietic stem cell
Cell 113	Mucosal-associated invariant T cell
Cell 114	Lymphocyte cell
Cell 115	Lymphocyte cell
Cell 116	Lymphocyte cell
Cell 117	Natural killer cell
Cell 119	Lymphocyte cell
Cell 120	Natural killer cell
Cell 121	Dendritic cell
Cell 122	Lymphocyte cell
Cell 123	Lymphocyte cell
Cell 124	Lymphocyte cell
Cell 125	Dendritic cell
Cell 127	Dendritic cell

Cell 128	Lymphocyte cell
Cell 129	Hematopoietic stem cell
Cell 130	Natural killer cell
Cell 131	Lymphocyte cell
Cell 132	Hematopoietic stem cell
Cell 133	Natural killer cell
Cell 134	Dendritic cell
Cell 135	Dendritic cell
Cell 136	Dendritic cell
Cell 137	Myeloid progenitor
Cell 138	Mucosal-associated invariant T cell
Cell 139	Plasmacytoid dendritic cell
Cell 140	Natural killer cell
Cell 141	Natural killer cell
Cell 142	Lymphocyte cell
Cell 143	Mucosal-associated invariant T cell
Cell 144	Dendritic cell
Cell 145	Lymphocyte cell
Cell 146	Natural killer cell
Cell 147	Plasmacytoid dendritic cell
Cell 148	Lymphocyte cell
Cell 149	Dendritic cell
Cell 150	Lymphocyte cell
Cell 151	Plasma cell
Cell 152	Natural killer cell
Cell 153	Lymphocyte cell
Cell 154	Dendritic cell
Cell 155	Natural killer cell
Cell 156	Lymphocyte cell
Cell 157	Natural killer cell
Cell 158	Natural killer cell
Cell 159	Lymphocyte cell
Cell 160	Lymphocyte cell
Cell 161	CD8 T cell
Cell 162	Dendritic cell
Cell 163	Plasma cell
Cell 164	Natural killer cell
Cell 165	Lymphocyte cell
Cell 166	Dendritic cell
Cell 167	Natural killer cell
Cell 168	Lymphocyte cell
Cell 169	CD8 T cell
Cell 170	Lymphocyte cell
Cell 171	Lymphocyte cell
Cell 172	CD8 T cell
Cell 173	Lymphocyte cell
Cell 174	Plasma cell
Cell 175	Plasmacytoid dendritic cell
Cell 176	Natural killer cell
Cell 177	Dendritic cell
Cell 178	Natural killer cell



Cell 179	Dendritic cell
Cell 180	Natural killer cell
Cell 182	Dendritic cell
Cell 183	Dendritic cell
Cell 184	Lymphocyte cell
Cell 185	Lymphocyte cell
Cell 186	Plasma cell
Cell 187	Dendritic cell
Cell 188	Lymphocyte cell
Cell 190	Lymphocyte cell
Cell 191	Natural killer cell
Cell 192	Natural killer cell
Cell 193	Lymphocyte cell
Cell 194	Lymphocyte cell
Cell 195	Dendritic cell
Cell 196	Hematopoietic stem cell
Cell 197	Dendritic cell
Cell 198	Dendritic cell
Cell 199	CD8 T cell
Cell 200	Lymphocyte cell
Cell 201	Natural killer cell
Cell 202	Hematopoietic stem cell
Cell 203	Lymphocyte cell
Cell 204	Lymphocyte cell
Cell 205	Mucosal-associated invariant T cell
Cell 206	Lymphocyte cell
Cell 207	Mucosal-associated invariant T cell
Cell 208	Lymphocyte cell
Cell 209	Dendritic cell
Cell 210	CD8 T cell
Cell 211	Plasmacytoid dendritic cell
Cell 212	Mucosal-associated invariant T cell
Cell 213	CD8 T cell
Cell 214	CD8 T cell
Cell 215	Hematopoietic stem cell
Cell 216	CD8 T cell
Cell 217	Dendritic cell
Cell 218	Dendritic cell
Cell 219	Natural killer cell
Cell 220	Hematopoietic stem cell
Cell 221	Natural killer cell
Cell 222	Dendritic cell
Cell 223	CD8 T cell
Cell 224	Lymphocyte cell
Cell 225	Lymphocyte cell
Cell 226	Lymphocyte cell
Cell 227	Natural killer cell
Cell 229	Mucosal-associated invariant T cell
Cell 230	Plasma cell
Cell 231	Lymphocyte cell
Cell 232	Plasma cell

Cell 234	Natural killer cell
Cell 235	CD8 T cell
Cell 236	Lymphocyte cell
Cell 237	Natural killer cell
Cell 238	CD8 T cell
Cell 239	CD8 T cell
Cell 240	Lymphocyte cell
Cell 241	Lymphocyte cell
Cell 242	Natural killer cell
Cell 243	Lymphocyte cell
Cell 244	Dendritic cell
Cell 245	Plasma cell
Cell 246	Lymphocyte cell
Cell 247	Non-classical monocyte cell
Cell 248	Hematopoietic stem cell
Cell 249	CD8 T cell
Cell 250	Lymphocyte cell
Cell 251	Hematopoietic stem cell
Cell 252	Lymphocyte cell
Cell 253	Lymphocyte cell
Cell 254	CD8 T cell
Cell 255	Lymphocyte cell
Cell 256	Hematopoietic stem cell
Cell 257	Mucosal-associated invariant T cell
Cell 258	Mucosal-associated invariant T cell
Cell 259	Plasma cell
Cell 260	CD8 T cell
Cell 261	Lymphocyte cell
Cell 262	Plasma cell
Cell 263	Hematopoietic stem cell
Cell 264	Lymphocyte cell
Cell 265	CD8 T cell
Cell 266	Plasma cell
Cell 267	CD8 T cell
Cell 268	CD8 T cell
Cell 269	Dendritic cell
Cell 270	Lymphocyte cell
Cell 271	CD8 T cell
Cell 272	Natural killer cell
Cell 273	Plasmacytoid dendritic cell
Cell 274	CD8 T cell
Cell 275	Dendritic cell
Cell 276	Dendritic cell
Cell 277	Dendritic cell
Cell 278	Dendritic cell
Cell 279	Lymphocyte cell
Cell 280	Dendritic cell
Cell 281	Natural killer cell
Cell 282	Lymphocyte cell
Cell 283	Mucosal-associated invariant T cell
Cell 284	Natural killer cell

Cell 285	Natural killer cell
Cell 286	Plasma cell
Cell 287	Natural killer cell
Cell 288	Natural killer cell
Cell 289	Natural killer cell
Cell 290	Dendritic cell
Cell 291	Lymphocyte cell
Cell 292	Plasma cell
Cell 293	Lymphocyte cell
Cell 294	Dendritic cell
Cell 295	Natural killer cell
Cell 296	Dendritic cell
Cell 297	Mucosal-associated invariant T cell
Cell 298	Natural killer cell
Cell 299	CD8 T cell
Cell 300	Plasmacytoid dendritic cell
Cell 301	Plasmacytoid dendritic cell
Cell 302	Dendritic cell
Cell 303	Natural killer cell
Cell 304	Plasma cell
Cell 305	Lymphocyte cell
Cell 306	Natural killer cell
Cell 307	Mucosal-associated invariant T cell
Cell 308	Plasmacytoid dendritic cell
Cell 309	Mucosal-associated invariant T cell
Cell 310	Natural killer cell
Cell 311	Natural killer cell
Cell 312	Lymphocyte cell
Cell 314	Natural killer cell
Cell 315	Mucosal-associated invariant T cell
Cell 317	Dendritic cell
Cell 318	Natural killer cell
Cell 319	CD8 T cell
Cell 320	CD8 T cell
Cell 321	Plasmacytoid dendritic cell
Cell 322	Dendritic cell
Cell 323	Lymphocyte cell
Cell 324	Lymphocyte cell
Cell 325	Myeloid progenitor
Cell 326	Plasmacytoid dendritic cell
Cell 327	Mucosal-associated invariant T cell
Cell 328	Natural killer cell
Cell 329	Lymphocyte cell
Cell 330	Lymphocyte cell
Cell 331	Dendritic cell
Cell 332	Lymphocyte cell
Cell 333	CD8 T cell
Cell 334	Lymphocyte cell
Cell 335	Plasmacytoid dendritic cell
Cell 336	Dendritic cell
Cell 337	Lymphocyte cell

Cell 338	Mucosal-associated invariant T cell
Cell 339	Plasmacytoid dendritic cell
Cell 340	Dendritic cell
Cell 341	Lymphocyte cell
Cell 342	Natural killer cell
Cell 343	Plasma cell
Cell 344	Dendritic cell
Cell 345	CD8 T cell
Cell 346	Lymphocyte cell
Cell 347	CD8 T cell
Cell 348	Lymphocyte cell
Cell 349	Natural killer cell
Cell 350	Dendritic cell
Cell 351	Lymphocyte cell
Cell 352	CD8 T cell
Cell 353	CD8 T cell
Cell 354	Natural killer cell
Cell 355	Lymphocyte cell
Cell 356	Dendritic cell
Cell 357	Natural killer cell
Cell 358	Plasma cell
Cell 359	Lymphocyte cell
Cell 360	Non-classical monocyte cell
Cell 361	Dendritic cell
Cell 362	Dendritic cell
Cell 363	CD8 T cell
Cell 364	Plasmacytoid dendritic cell
Cell 365	Natural killer cell
Cell 366	CD8 T cell
Cell 367	Hematopoietic stem cell
Cell 368	Plasmacytoid dendritic cell
Cell 369	Lymphocyte cell
Cell 370	Natural killer cell
Cell 371	Lymphocyte cell
Cell 372	Plasma cell
Cell 373	Natural killer cell
Cell 374	CD8 T cell
Cell 375	CD8 T cell
Cell 376	CD8 T cell
Cell 377	CD8 T cell
Cell 378	Natural killer cell
Cell 379	Plasma cell
Cell 380	Natural killer cell
Cell 381	Lymphocyte cell
Cell 382	Plasma cell
Cell 383	Dendritic cell
Cell 384	Plasmacytoid dendritic cell
Cell 385	Lymphocyte cell
Cell 386	Plasmacytoid dendritic cell
Cell 387	CD8 T cell
Cell 389	Plasma cell

Cell 390	Dendritic cell
Cell 391	Plasma cell
Cell 392	Lymphocyte cell
Cell 393	Dendritic cell
Cell 394	Lymphocyte cell
Cell 395	Plasma cell
Cell 396	Mucosal-associated invariant T cell
Cell 397	Plasma cell
Cell 398	Lymphocyte cell
Cell 399	Natural killer cell
Cell 400	Lymphocyte cell
Cell 401	Lymphocyte cell
Cell 403	Lymphocyte cell
Cell 404	Natural killer cell
Cell 406	Lymphocyte cell
Cell 407	Lymphocyte cell
Cell 408	Hematopoietic stem cell
Cell 409	Natural killer cell
Cell 410	Dendritic cell
Cell 411	Natural killer cell
Cell 412	Natural killer cell
Cell 413	CD8 T cell
Cell 414	Hematopoietic stem cell
Cell 415	Natural killer cell
Cell 416	Lymphocyte cell
Cell 417	Lymphocyte cell
Cell 418	Lymphocyte cell
Cell 419	Lymphocyte cell
Cell 420	CD8 T cell
Cell 421	Plasmacytoid dendritic cell
Cell 422	Hematopoietic stem cell
Cell 423	Natural killer cell
Cell 424	Plasma cell
Cell 425	CD8 T cell
Cell 426	Natural killer cell
Cell 427	Plasmacytoid dendritic cell
Cell 428	Dendritic cell
Cell 429	Dendritic cell
Cell 430	Natural killer cell
Cell 431	Mucosal-associated invariant T cell
Cell 432	Lymphocyte cell
Cell 433	Hematopoietic stem cell
Cell 434	Natural killer cell
Cell 435	Natural killer cell
Cell 436	Mucosal-associated invariant T cell
Cell 437	Natural killer cell
Cell 438	CD8 T cell
Cell 439	Dendritic cell
Cell 440	Natural killer cell
Cell 441	Dendritic cell
Cell 442	Lymphocyte cell

Cell 443	Mucosal-associated invariant T cell
Cell 444	Natural killer cell
Cell 445	CD8 T cell
Cell 446	Lymphocyte cell
Cell 447	Hematopoietic stem cell
Cell 448	Natural killer cell
Cell 449	Natural killer cell
Cell 450	Lymphocyte cell
Cell 451	Plasma cell
Cell 452	Lymphocyte cell
Cell 453	Hematopoietic stem cell
Cell 454	Natural killer cell
Cell 455	Dendritic cell
Cell 456	Lymphocyte cell
Cell 457	CD8 T cell
Cell 458	Dendritic cell
Cell 459	Natural killer cell
Cell 460	Dendritic cell
Cell 461	Plasma cell
Cell 462	Hematopoietic stem cell
Cell 463	Lymphocyte cell
Cell 465	Natural killer cell
Cell 466	Dendritic cell
Cell 467	Natural killer cell
Cell 468	CD8 T cell
Cell 469	Natural killer cell
Cell 470	CD8 T cell
Cell 471	Lymphocyte cell
Cell 472	Hematopoietic stem cell
Cell 473	Natural killer cell
Cell 474	Natural killer cell
Cell 475	Natural killer cell
Cell 476	CD8 T cell
Cell 477	Dendritic cell
Cell 478	Natural killer cell
Cell 479	Natural killer cell
Cell 480	Natural killer cell
Cell 481	Lymphocyte cell
Cell 482	Natural killer cell
Cell 483	Natural killer cell
Cell 484	Natural killer cell
Cell 486	Plasmacytoid dendritic cell
Cell 487	Dendritic cell
Cell 488	Lymphocyte cell
Cell 489	Dendritic cell
Cell 490	CD8 T cell
Cell 491	Lymphocyte cell
Cell 492	Hematopoietic stem cell
Cell 493	Lymphocyte cell
Cell 494	Plasma cell
Cell 495	Hematopoietic stem cell

Cell 496	Natural killer cell
Cell 497	Plasma cell
Cell 498	CD8 T cell
Cell 499	Plasmacytoid dendritic cell
Cell 500	Dendritic cell
Cell 501	Dendritic cell
Cell 502	CD8 T cell
Cell 503	Plasma cell
Cell 504	Plasmacytoid dendritic cell
Cell 505	Dendritic cell
Cell 506	CD8 T cell
Cell 507	Lymphocyte cell
Cell 508	Mucosal-associated invariant T cell
Cell 509	Lymphocyte cell
Cell 510	Natural killer cell
Cell 511	Hematopoietic stem cell
Cell 512	Lymphocyte cell
Cell 514	Plasma cell
Cell 516	Lymphocyte cell
Cell 517	Lymphocyte cell
Cell 518	Natural killer cell
Cell 519	Plasma cell
Cell 520	Mucosal-associated invariant T cell
Cell 521	Natural killer cell
Cell 522	Mucosal-associated invariant T cell
Cell 523	Natural killer cell
Cell 524	Dendritic cell
Cell 525	Plasma cell
Cell 526	Plasma cell
Cell 527	Plasmacytoid dendritic cell
Cell 529	Plasma cell
Cell 530	Lymphocyte cell
Cell 532	Lymphocyte cell
Cell 533	CD8 T cell
Cell 534	Plasma cell
Cell 535	Lymphocyte cell
Cell 536	Dendritic cell
Cell 537	Mucosal-associated invariant T cell
Cell 538	Non-classical monocyte cell
Cell 539	Lymphocyte cell
Cell 540	Natural killer cell
Cell 541	Lymphocyte cell
Cell 542	CD8 T cell
Cell 543	Dendritic cell
Cell 544	Dendritic cell
Cell 545	Plasmacytoid dendritic cell
Cell 546	Mucosal-associated invariant T cell
Cell 547	Plasmacytoid dendritic cell
Cell 548	Lymphocyte cell
Cell 549	Plasma cell
Cell 550	Natural killer cell

Cell 551	Lymphocyte cell
Cell 552	Lymphocyte cell
Cell 553	Lymphocyte cell
Cell 554	Lymphocyte cell
Cell 555	Dendritic cell
Cell 556	Dendritic cell
Cell 557	CD8 T cell
Cell 558	Mucosal-associated invariant T cell
Cell 559	Hematopoietic stem cell
Cell 560	Natural killer cell
Cell 561	Hematopoietic stem cell
Cell 562	CD8 T cell
Cell 563	Natural killer cell
Cell 564	Lymphocyte cell
Cell 565	Plasma cell
Cell 566	Hematopoietic stem cell
Cell 567	Plasma cell
Cell 568	Plasmacytoid dendritic cell
Cell 569	Mucosal-associated invariant T cell
Cell 570	Hematopoietic stem cell
Cell 572	Natural killer cell
Cell 573	Lymphocyte cell
Cell 575	CD8 T cell
Cell 576	Dendritic cell
Cell 577	Myeloid progenitor
Cell 578	Mucosal-associated invariant T cell
Cell 579	Natural killer cell
Cell 580	Natural killer cell
Cell 581	Dendritic cell
Cell 582	Hematopoietic stem cell
Cell 583	Lymphocyte cell
Cell 584	Natural killer cell
Cell 585	Lymphocyte cell
Cell 586	Lymphocyte cell
Cell 587	Lymphocyte cell
Cell 588	Hematopoietic stem cell
Cell 589	Natural killer cell
Cell 590	Natural killer cell
Cell 591	Plasmacytoid dendritic cell
Cell 592	Dendritic cell
Cell 593	Dendritic cell
Cell 594	Natural killer cell
Cell 595	CD8 T cell
Cell 596	Myeloid progenitor
Cell 597	Natural killer cell
Cell 598	Natural killer cell
Cell 599	Lymphocyte cell
Cell 600	Lymphocyte cell
Cell 601	Lymphocyte cell
Cell 602	Hematopoietic stem cell
Cell 603	Natural killer cell



Cell 604	Lymphocyte cell
Cell 605	Hematopoietic stem cell
Cell 606	Natural killer cell
Cell 607	Hematopoietic stem cell
Cell 608	CD8 T cell
Cell 609	Lymphocyte cell
Cell 610	Lymphocyte cell
Cell 611	Natural killer cell
Cell 612	Hematopoietic stem cell
Cell 613	Dendritic cell
Cell 614	Lymphocyte cell
Cell 616	Plasma cell
Cell 617	Lymphocyte cell
Cell 618	Dendritic cell
Cell 619	Natural killer cell
Cell 620	Mucosal-associated invariant T cell
Cell 621	Plasma cell
Cell 622	Lymphocyte cell
Cell 624	Natural killer cell
Cell 625	Dendritic cell
Cell 626	Hematopoietic stem cell
Cell 627	Hematopoietic stem cell
Cell 629	Natural killer cell
Cell 630	Natural killer cell
Cell 631	Natural killer cell
Cell 632	Lymphocyte cell
Cell 633	Hematopoietic stem cell
Cell 634	Lymphocyte cell
Cell 635	Dendritic cell
Cell 637	Plasma cell
Cell 638	Natural killer cell
Cell 639	Natural killer cell
Cell 640	Lymphocyte cell
Cell 641	Plasma cell
Cell 642	Plasma cell
Cell 643	CD8 T cell
Cell 644	Plasmacytoid dendritic cell
Cell 645	Lymphocyte cell
Cell 646	Plasma cell
Cell 647	CD8 T cell
Cell 648	Lymphocyte cell
Cell 649	Natural killer cell
Cell 650	Dendritic cell
Cell 651	Natural killer cell
Cell 652	Hematopoietic stem cell
Cell 653	Non-classical monocyte cell
Cell 654	Natural killer cell
Cell 655	Dendritic cell
Cell 656	Natural killer cell
Cell 657	Mucosal-associated invariant T cell
Cell 658	Plasmacytoid dendritic cell

Cell 659	Plasma cell
Cell 660	Natural killer cell
Cell 661	Dendritic cell
Cell 662	Lymphocyte cell
Cell 663	Mucosal-associated invariant T cell
Cell 664	Dendritic cell
Cell 665	Lymphocyte cell
Cell 666	Natural killer cell
Cell 668	Lymphocyte cell
Cell 669	CD8 T cell
Cell 670	Lymphocyte cell
Cell 671	Lymphocyte cell
Cell 672	CD8 T cell
Cell 673	Lymphocyte cell
Cell 674	Natural killer cell
Cell 675	Dendritic cell
Cell 676	Natural killer cell
Cell 677	Dendritic cell
Cell 678	Non-classical monocyte cell
Cell 679	Hematopoietic stem cell
Cell 680	Plasmacytoid dendritic cell
Cell 681	Dendritic cell
Cell 684	Lymphocyte cell
Cell 685	Lymphocyte cell
Cell 686	Natural killer cell
Cell 687	Lymphocyte cell
Cell 688	Hematopoietic stem cell
Cell 689	Natural killer cell
Cell 690	Natural killer cell
Cell 691	Natural killer cell
Cell 692	Lymphocyte cell
Cell 693	Natural killer cell
Cell 694	Lymphocyte cell
Cell 695	Dendritic cell
Cell 696	Dendritic cell
Cell 697	Natural killer cell
Cell 698	CD8 T cell
Cell 699	Natural killer cell
Cell 700	CD8 T cell
Cell 701	Dendritic cell
Cell 702	Natural killer cell
Cell 703	Dendritic cell
Cell 704	Plasma cell
Cell 705	Natural killer cell
Cell 706	Lymphocyte cell
Cell 707	Natural killer cell
Cell 708	Dendritic cell
Cell 709	Dendritic cell
Cell 710	Natural killer cell
Cell 711	Lymphocyte cell
Cell 712	Lymphocyte cell

Cell 713	Natural killer cell
Cell 714	Lymphocyte cell
Cell 715	Hematopoietic stem cell
Cell 716	Mucosal-associated invariant T cell
Cell 717	Dendritic cell
Cell 718	Lymphocyte cell
Cell 719	Lymphocyte cell
Cell 720	Lymphocyte cell
Cell 721	Lymphocyte cell
Cell 722	Lymphocyte cell
Cell 723	Plasma cell
Cell 724	Dendritic cell
Cell 725	Dendritic cell
Cell 726	Mucosal-associated invariant T cell
Cell 727	CD8 T cell
Cell 728	Natural killer cell
Cell 729	Lymphocyte cell
Cell 730	Dendritic cell
Cell 731	Dendritic cell
Cell 732	Lymphocyte cell
Cell 733	Hematopoietic stem cell
Cell 734	Plasma cell
Cell 735	Lymphocyte cell
Cell 736	Plasma cell
Cell 737	Plasmacytoid dendritic cell
Cell 738	Plasma cell
Cell 739	Lymphocyte cell
Cell 740	Hematopoietic stem cell
Cell 742	Plasmacytoid dendritic cell
Cell 743	Lymphocyte cell
Cell 744	Dendritic cell
Cell 745	Lymphocyte cell
Cell 746	Natural killer cell
Cell 747	Plasma cell
Cell 748	Dendritic cell
Cell 749	Dendritic cell
Cell 750	Hematopoietic stem cell
Cell 751	Hematopoietic stem cell
Cell 752	Hematopoietic stem cell
Cell 753	Plasma cell
Cell 754	Hematopoietic stem cell
Cell 755	Dendritic cell
Cell 756	Dendritic cell
Cell 757	Hematopoietic stem cell
Cell 758	Lymphocyte cell
Cell 759	Natural killer cell
Cell 760	Lymphocyte cell
Cell 761	Natural killer cell
Cell 762	Lymphocyte cell
Cell 763	Natural killer cell
Cell 764	Mucosal-associated invariant T cell

Cell 765	Dendritic cell
Cell 766	Lymphocyte cell
Cell 767	Hematopoietic stem cell
Cell 768	Natural killer cell
Cell 769	Lymphocyte cell
Cell 770	Mucosal-associated invariant T cell
Cell 771	Mucosal-associated invariant T cell
Cell 772	Natural killer cell
Cell 773	Lymphocyte cell
Cell 774	Lymphocyte cell
Cell 775	Lymphocyte cell
Cell 776	Natural killer cell
Cell 777	Dendritic cell
Cell 778	Plasmacytoid dendritic cell
Cell 779	Natural killer cell
Cell 780	Plasma cell
Cell 781	Hematopoietic stem cell
Cell 782	Natural killer cell
Cell 783	Lymphocyte cell
Cell 784	Natural killer cell
Cell 785	Lymphocyte cell
Cell 786	Dendritic cell
Cell 787	CD8 T cell
Cell 788	Natural killer cell
Cell 789	Plasma cell
Cell 790	Plasmacytoid dendritic cell
Cell 791	CD8 T cell
Cell 792	Dendritic cell
Cell 793	Natural killer cell
Cell 794	Natural killer cell
Cell 795	Lymphocyte cell
Cell 796	Natural killer cell
Cell 798	Natural killer cell
Cell 799	Dendritic cell
Cell 800	Lymphocyte cell
Cell 801	Plasmacytoid dendritic cell
Cell 802	Natural killer cell
Cell 804	Lymphocyte cell
Cell 805	Lymphocyte cell
Cell 806	Lymphocyte cell
Cell 807	Plasma cell
Cell 808	Dendritic cell
Cell 809	Dendritic cell
Cell 810	CD8 T cell
Cell 811	Dendritic cell
Cell 812	Hematopoietic stem cell
Cell 813	Natural killer cell
Cell 814	Natural killer cell
Cell 815	Natural killer cell
Cell 816	Lymphocyte cell
Cell 817	Lymphocyte cell

Cell 818	Dendritic cell
Cell 819	Hematopoietic stem cell
Cell 820	Dendritic cell
Cell 821	Hematopoietic stem cell
Cell 822	Natural killer cell
Cell 823	Natural killer cell
Cell 824	Dendritic cell
Cell 825	Natural killer cell
Cell 826	Natural killer cell
Cell 827	CD8 T cell
Cell 828	CD8 T cell
Cell 829	Plasma cell
Cell 830	Plasma cell
Cell 831	Lymphocyte cell
Cell 832	Plasma cell
Cell 833	Plasma cell
Cell 834	Plasmacytoid dendritic cell
Cell 835	Lymphocyte cell
Cell 836	Lymphocyte cell
Cell 837	CD8 T cell
Cell 838	CD8 T cell
Cell 839	Non-classical monocyte cell
Cell 840	Lymphocyte cell
Cell 841	Dendritic cell
Cell 842	Hematopoietic stem cell
Cell 843	CD8 T cell
Cell 844	Plasmacytoid dendritic cell
Cell 845	Dendritic cell
Cell 846	Natural killer cell
Cell 847	Natural killer cell
Cell 848	Plasma cell
Cell 849	Lymphocyte cell
Cell 851	CD8 T cell
Cell 852	Lymphocyte cell
Cell 853	Natural killer cell
Cell 854	Dendritic cell
Cell 855	Lymphocyte cell
Cell 856	Lymphocyte cell
Cell 857	Dendritic cell
Cell 858	Natural killer cell
Cell 859	Plasmacytoid dendritic cell
Cell 860	Dendritic cell
Cell 861	Plasmacytoid dendritic cell
Cell 862	Lymphocyte cell
Cell 863	Lymphocyte cell
Cell 864	CD8 T cell
Cell 865	Dendritic cell
Cell 866	Dendritic cell
Cell 867	CD8 T cell
Cell 868	Hematopoietic stem cell
Cell 869	Lymphocyte cell

Cell 870	Plasma cell
Cell 871	Natural killer cell
Cell 872	Lymphocyte cell
Cell 873	Hematopoietic stem cell
Cell 874	Plasma cell
Cell 875	Dendritic cell
Cell 876	Dendritic cell
Cell 877	Mucosal-associated invariant T cell
Cell 878	Natural killer cell
Cell 879	Dendritic cell
Cell 880	Hematopoietic stem cell
Cell 881	Natural killer cell
Cell 882	Natural killer cell
Cell 883	Lymphocyte cell
Cell 884	Mucosal-associated invariant T cell
Cell 885	Lymphocyte cell
Cell 886	Hematopoietic stem cell
Cell 887	Dendritic cell
Cell 888	Hematopoietic stem cell
Cell 889	Plasma cell
Cell 890	Dendritic cell
Cell 891	CD8 T cell
Cell 892	Lymphocyte cell
Cell 893	Natural killer cell
Cell 894	Dendritic cell
Cell 895	Lymphocyte cell
Cell 896	Plasmacytoid dendritic cell
Cell 897	Natural killer cell
Cell 898	Lymphocyte cell
Cell 899	Lymphocyte cell
Cell 900	Dendritic cell
Cell 901	Non-classical monocyte cell
Cell 902	Lymphocyte cell
Cell 903	Plasmacytoid dendritic cell
Cell 905	Hematopoietic stem cell
Cell 906	Natural killer cell
Cell 907	Dendritic cell
Cell 908	Lymphocyte cell
Cell 909	CD8 T cell
Cell 910	Natural killer cell
Cell 911	Mucosal-associated invariant T cell
Cell 912	Plasma cell
Cell 913	Natural killer cell
Cell 914	CD8 T cell
Cell 915	CD8 T cell
Cell 916	Dendritic cell
Cell 917	Lymphocyte cell
Cell 918	Lymphocyte cell
Cell 919	Dendritic cell
Cell 920	Natural killer cell
Cell 921	Lymphocyte cell

Cell 922	Natural killer cell
Cell 923	Hematopoietic stem cell
Cell 924	Natural killer cell
Cell 925	Natural killer cell
Cell 926	Plasmacytoid dendritic cell
Cell 927	CD8 T cell
Cell 928	Hematopoietic stem cell
Cell 929	Natural killer cell
Cell 930	Hematopoietic stem cell
Cell 931	Dendritic cell
Cell 932	CD8 T cell
Cell 933	Natural killer cell
Cell 934	CD8 T cell
Cell 935	CD8 T cell
Cell 936	Dendritic cell
Cell 937	Lymphocyte cell
Cell 938	Hematopoietic stem cell
Cell 939	Lymphocyte cell
Cell 940	Natural killer cell
Cell 941	Lymphocyte cell
Cell 942	Plasmacytoid dendritic cell
Cell 943	Natural killer cell
Cell 944	Dendritic cell
Cell 945	Lymphocyte cell
Cell 946	Non-classical monocyte cell
Cell 947	Dendritic cell
Cell 948	Hematopoietic stem cell
Cell 949	Lymphocyte cell
Cell 950	Natural killer cell
Cell 951	Lymphocyte cell
Cell 952	Dendritic cell
Cell 953	Mucosal-associated invariant T cell
Cell 954	Mucosal-associated invariant T cell
Cell 955	Mucosal-associated invariant T cell
Cell 956	Dendritic cell
Cell 957	Plasma cell
Cell 958	Lymphocyte cell
Cell 959	Lymphocyte cell
Cell 960	Lymphocyte cell
Cell 961	Hematopoietic stem cell
Cell 962	Dendritic cell
Cell 964	Dendritic cell
Cell 965	Hematopoietic stem cell
Cell 966	Natural killer cell
Cell 967	Dendritic cell
Cell 968	Natural killer cell
Cell 969	Dendritic cell
Cell 970	CD8 T cell
Cell 971	Plasma cell
Cell 972	Lymphocyte cell
Cell 973	Dendritic cell

Cell 974	Dendritic cell
Cell 975	Hematopoietic stem cell
Cell 977	Lymphocyte cell
Cell 978	Hematopoietic stem cell
Cell 979	Natural killer cell
Cell 980	Natural killer cell
Cell 981	Natural killer cell
Cell 982	Dendritic cell
Cell 983	Dendritic cell
Cell 984	Plasma cell
Cell 985	Dendritic cell
Cell 986	Mucosal-associated invariant T cell
Cell 987	Natural killer cell
Cell 988	Lymphocyte cell
Cell 989	Lymphocyte cell
Cell 990	Dendritic cell
Cell 991	Dendritic cell
Cell 992	Lymphocyte cell
Cell 993	Lymphocyte cell
Cell 994	Dendritic cell
Cell 995	Lymphocyte cell
Cell 996	Plasmacytoid dendritic cell
Cell 997	Dendritic cell
Cell 998	Dendritic cell
Cell 999	Plasmacytoid dendritic cell
Cell 1000	Natural killer cell
Cell 1001	Hematopoietic stem cell
Cell 1002	Dendritic cell
Cell 1003	Lymphocyte cell
Cell 1004	Natural killer cell
Cell 1005	Dendritic cell
Cell 1006	Natural killer cell
Cell 1007	CD8 T cell
Cell 1008	Plasma cell
Cell 1009	Lymphocyte cell
Cell 1010	Dendritic cell
Cell 1011	Lymphocyte cell
Cell 1012	Hematopoietic stem cell
Cell 1013	Lymphocyte cell
Cell 1014	Natural killer cell
Cell 1015	Lymphocyte cell
Cell 1016	Natural killer cell
Cell 1017	Hematopoietic stem cell
Cell 1018	Hematopoietic stem cell
Cell 1019	Plasmacytoid dendritic cell
Cell 1020	Dendritic cell
Cell 1021	Natural killer cell
Cell 1022	Lymphocyte cell
Cell 1023	Natural killer cell
Cell 1025	Natural killer cell
Cell 1026	Lymphocyte cell



Cell 1027	Natural killer cell
Cell 1028	Dendritic cell
Cell 1029	Lymphocyte cell
Cell 1030	Plasmacytoid dendritic cell
Cell 1031	Plasma cell
Cell 1032	Dendritic cell
Cell 1033	Lymphocyte cell
Cell 1034	Hematopoietic stem cell
Cell 1035	Natural killer cell
Cell 1036	Natural killer cell
Cell 1037	Plasma cell
Cell 1038	CD8 T cell
Cell 1039	Natural killer cell
Cell 1040	Lymphocyte cell
Cell 1041	Natural killer cell
Cell 1042	Lymphocyte cell
Cell 1043	CD8 T cell
Cell 1044	Natural killer cell
Cell 1045	CD8 T cell
Cell 1047	Natural killer cell
Cell 1048	Dendritic cell
Cell 1049	Lymphocyte cell
Cell 1050	Lymphocyte cell
Cell 1051	Natural killer cell
Cell 1052	CD8 T cell
Cell 1053	CD8 T cell
Cell 1054	Hematopoietic stem cell
Cell 1055	Plasma cell
Cell 1056	Lymphocyte cell
Cell 1057	Plasma cell
Cell 1058	CD8 T cell
Cell 1059	Hematopoietic stem cell
Cell 1060	Plasmacytoid dendritic cell
Cell 1061	Plasma cell
Cell 1062	Plasma cell
Cell 1063	CD8 T cell
Cell 1064	Hematopoietic stem cell
Cell 1065	Dendritic cell
Cell 1066	Dendritic cell
Cell 1068	Hematopoietic stem cell
Cell 1069	CD8 T cell
Cell 1070	CD8 T cell
Cell 1071	Hematopoietic stem cell
Cell 1072	Natural killer cell
Cell 1073	Natural killer cell
Cell 1074	Lymphocyte cell
Cell 1075	Dendritic cell
Cell 1076	CD8 T cell
Cell 1078	Dendritic cell
Cell 1079	Mucosal-associated invariant T cell
Cell 1080	Natural killer cell

Cell 1081	Natural killer cell
Cell 1082	Dendritic cell
Cell 1083	Plasma cell
Cell 1084	CD8 T cell
Cell 1085	Dendritic cell
Cell 1086	Natural killer cell
Cell 1087	Plasma cell
Cell 1088	Lymphocyte cell
Cell 1089	Lymphocyte cell
Cell 1090	Lymphocyte cell
Cell 1091	Hematopoietic stem cell
Cell 1092	Dendritic cell
Cell 1093	CD8 T cell
Cell 1094	Lymphocyte cell
Cell 1095	CD8 T cell
Cell 1096	Natural killer cell
Cell 1097	Plasma cell
Cell 1098	Lymphocyte cell
Cell 1099	Hematopoietic stem cell
Cell 1100	Natural killer cell
Cell 1101	CD8 T cell
Cell 1102	Plasma cell
Cell 1103	Mucosal-associated invariant T cell
Cell 1104	Plasmacytoid dendritic cell
Cell 1106	Mucosal-associated invariant T cell
Cell 1107	Natural killer cell
Cell 1108	Lymphocyte cell
Cell 1109	Natural killer cell
Cell 1110	Myeloid progenitor
Cell 1111	Lymphocyte cell
Cell 1112	CD8 T cell
Cell 1113	Lymphocyte cell
Cell 1114	Lymphocyte cell
Cell 1115	CD8 T cell
Cell 1116	Lymphocyte cell
Cell 1117	Mucosal-associated invariant T cell
Cell 1118	Lymphocyte cell
Cell 1119	Lymphocyte cell
Cell 1120	Mucosal-associated invariant T cell
Cell 1121	Dendritic cell
Cell 1123	Dendritic cell
Cell 1124	CD8 T cell
Cell 1125	Hematopoietic stem cell
Cell 1126	Hematopoietic stem cell
Cell 1127	Lymphocyte cell
Cell 1128	Plasma cell
Cell 1129	Natural killer cell
Cell 1130	Lymphocyte cell
Cell 1131	Hematopoietic stem cell
Cell 1132	Natural killer cell
Cell 1133	Non-classical monocyte cell

Cell 1134	Natural killer cell
Cell 1135	Natural killer cell
Cell 1136	Dendritic cell
Cell 1137	CD8 T cell
Cell 1138	CD8 T cell
Cell 1139	Lymphocyte cell
Cell 1140	Lymphocyte cell
Cell 1141	Dendritic cell
Cell 1142	CD8 T cell
Cell 1143	Lymphocyte cell
Cell 1144	Lymphocyte cell
Cell 1145	Natural killer cell
Cell 1146	Non-classical monocyte cell
Cell 1147	Dendritic cell
Cell 1149	CD8 T cell
Cell 1150	Lymphocyte cell
Cell 1151	CD8 T cell
Cell 1152	Dendritic cell
Cell 1153	Hematopoietic stem cell
Cell 1154	Mucosal-associated invariant T cell
Cell 1155	Dendritic cell
Cell 1156	Natural killer cell
Cell 1157	Natural killer cell
Cell 1159	Plasmacytoid dendritic cell
Cell 1160	Plasmacytoid dendritic cell
Cell 1161	Natural killer cell
Cell 1162	Lymphocyte cell
Cell 1163	Lymphocyte cell
Cell 1164	Mucosal-associated invariant T cell
Cell 1165	Lymphocyte cell
Cell 1166	Natural killer cell
Cell 1167	Plasma cell
Cell 1168	Lymphocyte cell
Cell 1169	Plasma cell
Cell 1170	Natural killer cell
Cell 1171	Natural killer cell
Cell 1172	CD8 T cell
Cell 1173	CD8 T cell
Cell 1174	Plasmacytoid dendritic cell
Cell 1175	Natural killer cell
Cell 1176	Dendritic cell
Cell 1177	Plasma cell
Cell 1178	Dendritic cell
Cell 1179	Natural killer cell
Cell 1180	Lymphocyte cell
Cell 1181	Plasma cell
Cell 1182	Natural killer cell
Cell 1183	Hematopoietic stem cell
Cell 1184	Natural killer cell
Cell 1185	Dendritic cell
Cell 1186	CD8 T cell

Cell 1187	Natural killer cell
Cell 1188	CD8 T cell
Cell 1189	Hematopoietic stem cell
Cell 1190	Natural killer cell
Cell 1191	Natural killer cell
Cell 1192	Dendritic cell
Cell 1193	Natural killer cell
Cell 1194	Dendritic cell
Cell 1195	Natural killer cell
Cell 1196	Dendritic cell
Cell 1197	Natural killer cell
Cell 1198	Lymphocyte cell
Cell 1199	Dendritic cell
Cell 1200	Lymphocyte cell
Cell 1201	Lymphocyte cell
Cell 1202	Natural killer cell
Cell 1203	Lymphocyte cell
Cell 1204	Lymphocyte cell
Cell 1205	Dendritic cell
Cell 1206	CD8 T cell
Cell 1207	Plasma cell
Cell 1208	CD8 T cell
Cell 1209	Dendritic cell
Cell 1210	Hematopoietic stem cell
Cell 1211	Dendritic cell
Cell 1212	CD8 T cell
Cell 1213	Lymphocyte cell
Cell 1214	Dendritic cell
Cell 1215	Natural killer cell
Cell 1216	Natural killer cell
Cell 1217	Mucosal-associated invariant T cell
Cell 1218	Lymphocyte cell
Cell 1219	Hematopoietic stem cell
Cell 1220	Dendritic cell
Cell 1221	Lymphocyte cell
Cell 1222	Dendritic cell
Cell 1223	Dendritic cell
Cell 1224	Dendritic cell
Cell 1225	Lymphocyte cell
Cell 1226	Lymphocyte cell
Cell 1227	Mucosal-associated invariant T cell
Cell 1228	Hematopoietic stem cell
Cell 1229	CD8 T cell
Cell 1230	Lymphocyte cell
Cell 1231	Hematopoietic stem cell
Cell 1232	Plasma cell
Cell 1233	Mucosal-associated invariant T cell
Cell 1234	Dendritic cell
Cell 1235	Hematopoietic stem cell
Cell 1236	Plasmacytoid dendritic cell
Cell 1237	Natural killer cell

Cell 1238	Dendritic cell
Cell 1239	Lymphocyte cell
Cell 1240	Natural killer cell
Cell 1241	Lymphocyte cell
Cell 1242	Lymphocyte cell
Cell 1243	Dendritic cell
Cell 1244	Natural killer cell
Cell 1245	CD8 T cell
Cell 1246	Natural killer cell
Cell 1247	Mucosal-associated invariant T cell
Cell 1248	Lymphocyte cell
Cell 1249	Natural killer cell
Cell 1250	Hematopoietic stem cell
Cell 1251	Plasma cell
Cell 1252	Lymphocyte cell
Cell 1253	Dendritic cell
Cell 1254	Natural killer cell
Cell 1255	Lymphocyte cell
Cell 1256	Plasmacytoid dendritic cell
Cell 1257	Natural killer cell
Cell 1258	Dendritic cell
Cell 1259	CD8 T cell
Cell 1260	Lymphocyte cell
Cell 1261	Hematopoietic stem cell
Cell 1262	CD8 T cell
Cell 1263	Lymphocyte cell
Cell 1264	Mucosal-associated invariant T cell
Cell 1265	CD8 T cell
Cell 1266	Natural killer cell
Cell 1267	Plasma cell
Cell 1268	Non-classical monocyte cell
Cell 1269	Dendritic cell
Cell 1270	Natural killer cell
Cell 1271	Lymphocyte cell
Cell 1272	Lymphocyte cell
Cell 1273	Natural killer cell
Cell 1274	Plasma cell
Cell 1275	CD8 T cell
Cell 1276	Natural killer cell
Cell 1277	Mucosal-associated invariant T cell
Cell 1278	Lymphocyte cell
Cell 1279	Natural killer cell
Cell 1280	Lymphocyte cell
Cell 1281	Natural killer cell
Cell 1282	CD8 T cell
Cell 1283	Lymphocyte cell
Cell 1284	Lymphocyte cell
Cell 1285	Natural killer cell
Cell 1286	Dendritic cell
Cell 1287	CD8 T cell
Cell 1288	Dendritic cell

Cell 1289	Natural killer cell
Cell 1290	Plasma cell
Cell 1291	Hematopoietic stem cell
Cell 1292	Mucosal-associated invariant T cell
Cell 1293	Dendritic cell
Cell 1294	Lymphocyte cell
Cell 1295	Dendritic cell
Cell 1296	Natural killer cell
Cell 1297	CD8 T cell
Cell 1298	Plasma cell
Cell 1301	Dendritic cell
Cell 1302	Natural killer cell
Cell 1303	Dendritic cell
Cell 1304	Lymphocyte cell
Cell 1305	Mucosal-associated invariant T cell
Cell 1306	Mucosal-associated invariant T cell
Cell 1307	Hematopoietic stem cell
Cell 1308	Natural killer cell
Cell 1311	Natural killer cell
Cell 1312	Plasma cell
Cell 1313	Lymphocyte cell
Cell 1314	Dendritic cell
Cell 1315	Dendritic cell
Cell 1316	Lymphocyte cell
Cell 1317	Dendritic cell
Cell 1318	Natural killer cell
Cell 1319	Lymphocyte cell
Cell 1320	Hematopoietic stem cell
Cell 1321	Dendritic cell
Cell 1322	Lymphocyte cell
Cell 1323	Hematopoietic stem cell
Cell 1324	Lymphocyte cell
Cell 1325	Lymphocyte cell
Cell 1326	Dendritic cell
Cell 1327	Lymphocyte cell
Cell 1328	Natural killer cell
Cell 1329	Lymphocyte cell
Cell 1330	Hematopoietic stem cell
Cell 1331	Mucosal-associated invariant T cell
Cell 1332	Plasmacytoid dendritic cell
Cell 1333	Dendritic cell
Cell 1334	Natural killer cell
Cell 1335	Natural killer cell
Cell 1336	Hematopoietic stem cell
Cell 1337	Mucosal-associated invariant T cell
Cell 1338	Dendritic cell
Cell 1339	Mucosal-associated invariant T cell
Cell 1340	Lymphocyte cell
Cell 1341	Lymphocyte cell
Cell 1342	CD8 T cell
Cell 1343	Plasma cell

Cell 1344	Lymphocyte cell
Cell 1345	Plasma cell
Cell 1346	Plasmacytoid dendritic cell
Cell 1347	Hematopoietic stem cell
Cell 1348	Hematopoietic stem cell
Cell 1349	Non-classical monocyte cell
Cell 1350	Dendritic cell
Cell 1351	Lymphocyte cell
Cell 1352	Dendritic cell
Cell 1353	CD8 T cell
Cell 1354	CD8 T cell
Cell 1355	Lymphocyte cell
Cell 1356	Natural killer cell
Cell 1357	Dendritic cell
Cell 1358	Natural killer cell
Cell 1359	Dendritic cell
Cell 1360	Dendritic cell
Cell 1361	Plasma cell
Cell 1362	Natural killer cell
Cell 1363	Plasma cell
Cell 1364	Lymphocyte cell
Cell 1365	Dendritic cell
Cell 1366	CD8 T cell
Cell 1367	Lymphocyte cell
Cell 1368	Hematopoietic stem cell
Cell 1369	Plasma cell
Cell 1370	Non-classical monocyte cell
Cell 1371	Natural killer cell
Cell 1372	CD8 T cell
Cell 1373	Natural killer cell
Cell 1374	Non-classical monocyte cell
Cell 1375	CD8 T cell
Cell 1376	Lymphocyte cell
Cell 1378	Lymphocyte cell
Cell 1379	Mucosal-associated invariant T cell
Cell 1380	Hematopoietic stem cell
Cell 1381	Natural killer cell
Cell 1382	CD8 T cell
Cell 1383	Mucosal-associated invariant T cell
Cell 1384	Natural killer cell
Cell 1385	Mucosal-associated invariant T cell
Cell 1386	CD8 T cell
Cell 1387	Dendritic cell
Cell 1388	Hematopoietic stem cell
Cell 1389	Natural killer cell
Cell 1390	Mucosal-associated invariant T cell
Cell 1391	CD8 T cell
Cell 1392	Natural killer cell
Cell 1393	Natural killer cell
Cell 1394	CD8 T cell
Cell 1397	Plasma cell

Cell 1398	Dendritic cell
Cell 1399	Natural killer cell
Cell 1400	CD8 T cell
Cell 1401	Dendritic cell
Cell 1402	Dendritic cell
Cell 1404	Hematopoietic stem cell
Cell 1405	Lymphocyte cell
Cell 1406	Lymphocyte cell
Cell 1407	Dendritic cell
Cell 1408	Dendritic cell
Cell 1409	Natural killer cell
Cell 1410	Lymphocyte cell
Cell 1411	Plasmacytoid dendritic cell
Cell 1412	Plasma cell
Cell 1413	Plasma cell
Cell 1414	Natural killer cell
Cell 1415	Plasma cell
Cell 1416	Lymphocyte cell
Cell 1417	Dendritic cell
Cell 1418	CD8 T cell
Cell 1419	Lymphocyte cell
Cell 1420	Dendritic cell
Cell 1421	Dendritic cell
Cell 1422	Natural killer cell
Cell 1423	Hematopoietic stem cell
Cell 1424	Lymphocyte cell
Cell 1425	Lymphocyte cell
Cell 1426	Natural killer cell
Cell 1427	CD8 T cell
Cell 1428	CD8 T cell
Cell 1429	Natural killer cell
Cell 1430	Lymphocyte cell
Cell 1431	Dendritic cell
Cell 1432	Dendritic cell
Cell 1433	Dendritic cell
Cell 1434	Plasma cell
Cell 1435	Mucosal-associated invariant T cell
Cell 1436	Dendritic cell
Cell 1437	Natural killer cell
Cell 1438	Plasma cell
Cell 1439	Hematopoietic stem cell
Cell 1440	Hematopoietic stem cell
Cell 1442	Plasma cell
Cell 1443	Dendritic cell
Cell 1444	CD8 T cell
Cell 1445	Hematopoietic stem cell
Cell 1446	Lymphocyte cell
Cell 1447	Natural killer cell
Cell 1448	CD8 T cell
Cell 1449	Plasma cell
Cell 1450	CD8 T cell



Cell 1451	Dendritic cell
Cell 1452	Lymphocyte cell
Cell 1455	Lymphocyte cell
Cell 1456	Natural killer cell
Cell 1457	Lymphocyte cell
Cell 1458	Plasma cell
Cell 1459	Plasmacytoid dendritic cell
Cell 1460	Lymphocyte cell
Cell 1461	Dendritic cell
Cell 1462	Lymphocyte cell
Cell 1463	Hematopoietic stem cell
Cell 1464	Dendritic cell
Cell 1465	Mucosal-associated invariant T cell
Cell 1466	Natural killer cell
Cell 1467	CD8 T cell
Cell 1468	CD8 T cell
Cell 1469	Lymphocyte cell
Cell 1470	Lymphocyte cell
Cell 1471	Plasma cell
Cell 1473	Natural killer cell
Cell 1475	Mucosal-associated invariant T cell
Cell 1476	CD8 T cell
Cell 1477	Plasma cell
Cell 1478	Dendritic cell
Cell 1479	Hematopoietic stem cell
Cell 1480	Lymphocyte cell
Cell 1481	Lymphocyte cell
Cell 1482	Dendritic cell
Cell 1483	Plasma cell
Cell 1484	Mucosal-associated invariant T cell
Cell 1485	Lymphocyte cell
Cell 1486	Natural killer cell
Cell 1487	Hematopoietic stem cell
Cell 1488	Lymphocyte cell
Cell 1489	Hematopoietic stem cell
Cell 1490	Dendritic cell
Cell 1491	Dendritic cell
Cell 1492	Lymphocyte cell
Cell 1493	Lymphocyte cell
Cell 1494	Lymphocyte cell
Cell 1495	Dendritic cell
Cell 1497	Dendritic cell
Cell 1498	Dendritic cell
Cell 1499	Hematopoietic stem cell
Cell 1500	Natural killer cell
Cell 1501	Natural killer cell
Cell 1502	CD8 T cell
Cell 1503	Lymphocyte cell
Cell 1505	Dendritic cell
Cell 1506	Lymphocyte cell
Cell 1507	Natural killer cell

Cell 1508	Lymphocyte cell
Cell 1509	Hematopoietic stem cell
Cell 1510	Non-classical monocyte cell
Cell 1511	Dendritic cell
Cell 1512	CD8 T cell
Cell 1513	Dendritic cell
Cell 1514	Plasma cell
Cell 1515	Dendritic cell
Cell 1516	Lymphocyte cell
Cell 1517	Lymphocyte cell
Cell 1518	Natural killer cell
Cell 1520	Lymphocyte cell
Cell 1521	Lymphocyte cell
Cell 1522	Lymphocyte cell
Cell 1523	Hematopoietic stem cell
Cell 1524	Hematopoietic stem cell
Cell 1525	Lymphocyte cell
Cell 1526	CD8 T cell
Cell 1527	Dendritic cell
Cell 1528	Dendritic cell
Cell 1529	CD8 T cell
Cell 1530	Lymphocyte cell
Cell 1531	Lymphocyte cell
Cell 1532	Plasma cell
Cell 1533	Dendritic cell
Cell 1534	Dendritic cell
Cell 1535	Lymphocyte cell
Cell 1536	CD8 T cell
Cell 1537	Natural killer cell
Cell 1538	Natural killer cell
Cell 1539	Hematopoietic stem cell
Cell 1540	Dendritic cell
Cell 1541	Mucosal-associated invariant T cell
Cell 1543	Natural killer cell
Cell 1544	Lymphocyte cell
Cell 1545	Natural killer cell
Cell 1546	Lymphocyte cell
Cell 1547	Lymphocyte cell
Cell 1548	Dendritic cell
Cell 1549	Lymphocyte cell
Cell 1550	Lymphocyte cell
Cell 1551	Lymphocyte cell
Cell 1552	Dendritic cell
Cell 1553	Lymphocyte cell
Cell 1554	CD8 T cell
Cell 1555	Hematopoietic stem cell
Cell 1556	Natural killer cell
Cell 1557	Lymphocyte cell
Cell 1558	Natural killer cell
Cell 1559	Dendritic cell
Cell 1560	CD8 T cell

Cell 1561	Plasma cell
Cell 1562	CD8 T cell
Cell 1563	Dendritic cell
Cell 1564	Lymphocyte cell
Cell 1565	Non-classical monocyte cell
Cell 1566	Lymphocyte cell
Cell 1567	Lymphocyte cell
Cell 1568	CD8 T cell
Cell 1569	Plasmacytoid dendritic cell
Cell 1570	Natural killer cell
Cell 1571	Natural killer cell
Cell 1572	Hematopoietic stem cell
Cell 1573	Hematopoietic stem cell
Cell 1574	Lymphocyte cell
Cell 1575	Lymphocyte cell
Cell 1576	Lymphocyte cell
Cell 1577	Plasmacytoid dendritic cell
Cell 1578	Hematopoietic stem cell
Cell 1579	Plasma cell
Cell 1580	Natural killer cell
Cell 1581	Myeloid progenitor
Cell 1582	CD8 T cell
Cell 1583	Natural killer cell
Cell 1584	CD8 T cell
Cell 1585	CD8 T cell
Cell 1586	CD8 T cell
Cell 1587	Natural killer cell
Cell 1588	Dendritic cell
Cell 1589	CD8 T cell
Cell 1590	Lymphocyte cell
Cell 1591	Dendritic cell
Cell 1592	Natural killer cell
Cell 1593	CD8 T cell
Cell 1594	Lymphocyte cell
Cell 1595	Plasma cell
Cell 1596	Hematopoietic stem cell
Cell 1597	Dendritic cell
Cell 1598	Lymphocyte cell
Cell 1599	Dendritic cell
Cell 1600	Lymphocyte cell
Cell 1601	Dendritic cell
Cell 1602	CD8 T cell
Cell 1603	Lymphocyte cell
Cell 1604	Natural killer cell
Cell 1605	Natural killer cell
Cell 1606	Dendritic cell
Cell 1607	Natural killer cell
Cell 1608	Plasma cell
Cell 1609	CD8 T cell
Cell 1610	Lymphocyte cell
Cell 1611	Lymphocyte cell

Cell 1612	Dendritic cell
Cell 1613	Plasmacytoid dendritic cell
Cell 1614	Dendritic cell
Cell 1615	Plasma cell
Cell 1616	Hematopoietic stem cell
Cell 1617	CD8 T cell
Cell 1618	Plasmacytoid dendritic cell
Cell 1619	Dendritic cell
Cell 1620	Lymphocyte cell
Cell 1621	Lymphocyte cell
Cell 1622	Plasmacytoid dendritic cell
Cell 1623	Natural killer cell
Cell 1624	Natural killer cell
Cell 1625	Natural killer cell
Cell 1626	Lymphocyte cell
Cell 1627	Dendritic cell
Cell 1628	Lymphocyte cell
Cell 1629	Natural killer cell
Cell 1630	Dendritic cell
Cell 1631	Hematopoietic stem cell
Cell 1632	Natural killer cell
Cell 1633	Lymphocyte cell
Cell 1634	Dendritic cell
Cell 1635	Dendritic cell
Cell 1636	Lymphocyte cell
Cell 1637	Non-classical monocyte cell
Cell 1638	Dendritic cell
Cell 1639	Plasma cell
Cell 1640	Dendritic cell
Cell 1641	Mucosal-associated invariant T cell
Cell 1642	Mucosal-associated invariant T cell
Cell 1643	Lymphocyte cell
Cell 1644	Lymphocyte cell
Cell 1645	CD8 T cell
Cell 1646	Non-classical monocyte cell
Cell 1647	Plasma cell
Cell 1648	Lymphocyte cell
Cell 1649	Lymphocyte cell
Cell 1650	Natural killer cell
Cell 1651	Mucosal-associated invariant T cell
Cell 1652	Lymphocyte cell
Cell 1654	Lymphocyte cell
Cell 1655	Mucosal-associated invariant T cell
Cell 1656	Lymphocyte cell
Cell 1657	Lymphocyte cell
Cell 1658	Natural killer cell
Cell 1659	Dendritic cell
Cell 1660	Natural killer cell
Cell 1661	Plasma cell
Cell 1662	Plasmacytoid dendritic cell
Cell 1663	Hematopoietic stem cell

Cell 1664	Lymphocyte cell
Cell 1665	Lymphocyte cell
Cell 1666	Dendritic cell
Cell 1667	Dendritic cell
Cell 1668	Lymphocyte cell
Cell 1669	Lymphocyte cell
Cell 1670	Natural killer cell
Cell 1671	Natural killer cell
Cell 1672	Dendritic cell
Cell 1673	Natural killer cell
Cell 1674	Natural killer cell
Cell 1675	Dendritic cell
Cell 1676	Lymphocyte cell
Cell 1677	Natural killer cell
Cell 1678	Dendritic cell
Cell 1679	Dendritic cell
Cell 1680	Natural killer cell
Cell 1681	Hematopoietic stem cell
Cell 1682	Natural killer cell
Cell 1683	Dendritic cell
Cell 1684	Hematopoietic stem cell
Cell 1685	Lymphocyte cell
Cell 1686	CD8 T cell
Cell 1687	CD8 T cell
Cell 1688	Dendritic cell
Cell 1689	Hematopoietic stem cell
Cell 1690	CD8 T cell
Cell 1691	Lymphocyte cell
Cell 1692	Lymphocyte cell
Cell 1693	Dendritic cell
Cell 1694	Lymphocyte cell
Cell 1695	CD8 T cell
Cell 1696	Dendritic cell
Cell 1697	Lymphocyte cell
Cell 1698	Lymphocyte cell
Cell 1699	CD8 T cell
Cell 1700	Lymphocyte cell
Cell 1701	Dendritic cell
Cell 1702	Plasma cell
Cell 1704	Dendritic cell
Cell 1705	Natural killer cell
Cell 1706	Natural killer cell
Cell 1707	Lymphocyte cell
Cell 1708	Hematopoietic stem cell
Cell 1709	Lymphocyte cell
Cell 1710	Natural killer cell
Cell 1711	Lymphocyte cell
Cell 1712	Plasmacytoid dendritic cell
Cell 1713	Lymphocyte cell
Cell 1714	Dendritic cell
Cell 1715	Lymphocyte cell

Cell 1716	Dendritic cell
Cell 1717	Dendritic cell
Cell 1718	Dendritic cell
Cell 1719	Lymphocyte cell
Cell 1720	Lymphocyte cell
Cell 1721	Lymphocyte cell
Cell 1722	Hematopoietic stem cell
Cell 1723	Natural killer cell
Cell 1724	Plasma cell
Cell 1725	CD8 T cell
Cell 1726	Natural killer cell
Cell 1727	Dendritic cell
Cell 1728	Plasma cell
Cell 1729	Lymphocyte cell
Cell 1730	Plasma cell
Cell 1731	Plasmacytoid dendritic cell
Cell 1732	Natural killer cell
Cell 1733	Dendritic cell
Cell 1734	Dendritic cell
Cell 1735	Lymphocyte cell
Cell 1736	Mucosal-associated invariant T cell
Cell 1737	Dendritic cell
Cell 1739	Natural killer cell
Cell 1740	Lymphocyte cell
Cell 1741	Lymphocyte cell
Cell 1742	Natural killer cell
Cell 1743	Lymphocyte cell
Cell 1744	Dendritic cell
Cell 1745	Natural killer cell
Cell 1746	CD8 T cell
Cell 1747	CD8 T cell
Cell 1748	Dendritic cell
Cell 1749	Lymphocyte cell
Cell 1750	Mucosal-associated invariant T cell
Cell 1751	Natural killer cell
Cell 1753	Natural killer cell
Cell 1754	Natural killer cell
Cell 1755	Natural killer cell
Cell 1756	Natural killer cell
Cell 1757	Lymphocyte cell
Cell 1758	CD8 T cell
Cell 1759	Dendritic cell
Cell 1760	Hematopoietic stem cell
Cell 1761	Dendritic cell
Cell 1762	Plasma cell
Cell 1763	Natural killer cell
Cell 1764	Lymphocyte cell
Cell 1765	Dendritic cell
Cell 1766	CD8 T cell
Cell 1767	Lymphocyte cell
Cell 1768	Lymphocyte cell

Cell 1769	CD8 T cell
Cell 1770	Dendritic cell
Cell 1771	Dendritic cell
Cell 1772	Dendritic cell
Cell 1773	Natural killer cell
Cell 1774	Dendritic cell
Cell 1775	Dendritic cell
Cell 1776	Natural killer cell
Cell 1777	CD8 T cell
Cell 1778	Plasma cell
Cell 1779	Plasmacytoid dendritic cell
Cell 1780	Plasmacytoid dendritic cell
Cell 1781	Dendritic cell
Cell 1782	Lymphocyte cell
Cell 1783	Lymphocyte cell
Cell 1784	Natural killer cell
Cell 1785	Natural killer cell
Cell 1787	Natural killer cell
Cell 1788	Hematopoietic stem cell
Cell 1789	CD8 T cell
Cell 1790	Lymphocyte cell
Cell 1791	Dendritic cell
Cell 1792	Natural killer cell
Cell 1793	Mucosal-associated invariant T cell
Cell 1794	Natural killer cell
Cell 1795	Dendritic cell
Cell 1796	Natural killer cell
Cell 1797	Natural killer cell
Cell 1798	Lymphocyte cell
Cell 1799	Natural killer cell
Cell 1800	CD8 T cell
Cell 1801	Dendritic cell
Cell 1802	Dendritic cell
Cell 1803	Natural killer cell
Cell 1804	CD8 T cell
Cell 1805	Lymphocyte cell
Cell 1806	Dendritic cell
Cell 1807	Lymphocyte cell
Cell 1808	Natural killer cell
Cell 1809	Lymphocyte cell
Cell 1810	Dendritic cell
Cell 1811	Natural killer cell
Cell 1812	Mucosal-associated invariant T cell
Cell 1813	Plasma cell
Cell 1814	Dendritic cell
Cell 1815	Plasmacytoid dendritic cell
Cell 1816	Lymphocyte cell
Cell 1817	Dendritic cell
Cell 1818	Natural killer cell
Cell 1819	Natural killer cell
Cell 1820	Dendritic cell

Cell 1821	Lymphocyte cell
Cell 1822	Plasma cell
Cell 1823	Natural killer cell
Cell 1824	Natural killer cell
Cell 1825	Natural killer cell
Cell 1826	Lymphocyte cell
Cell 1827	CD8 T cell
Cell 1828	Hematopoietic stem cell
Cell 1829	Dendritic cell
Cell 1830	Hematopoietic stem cell
Cell 1831	Lymphocyte cell
Cell 1832	Natural killer cell
Cell 1833	Lymphocyte cell
Cell 1834	Non-classical monocyte cell
Cell 1835	Dendritic cell
Cell 1836	Natural killer cell
Cell 1837	Lymphocyte cell
Cell 1838	Lymphocyte cell
Cell 1839	Lymphocyte cell
Cell 1840	Dendritic cell
Cell 1841	Dendritic cell
Cell 1842	Lymphocyte cell
Cell 1843	Dendritic cell
Cell 1844	Hematopoietic stem cell
Cell 1845	Non-classical monocyte cell
Cell 1847	Natural killer cell
Cell 1848	Dendritic cell
Cell 1849	Lymphocyte cell
Cell 1850	Lymphocyte cell
Cell 1851	Mucosal-associated invariant T cell
Cell 1852	Plasmacytoid dendritic cell
Cell 1853	Natural killer cell
Cell 1854	Natural killer cell
Cell 1855	Natural killer cell
Cell 1856	Lymphocyte cell
Cell 1857	Mucosal-associated invariant T cell
Cell 1858	Hematopoietic stem cell
Cell 1859	Plasmacytoid dendritic cell
Cell 1860	Natural killer cell
Cell 1861	Lymphocyte cell
Cell 1863	Dendritic cell
Cell 1864	Hematopoietic stem cell
Cell 1865	Dendritic cell
Cell 1866	Dendritic cell
Cell 1867	Mucosal-associated invariant T cell
Cell 1868	Dendritic cell
Cell 1870	CD8 T cell
Cell 1871	Natural killer cell
Cell 1872	CD8 T cell
Cell 1873	Lymphocyte cell
Cell 1874	Dendritic cell



Cell 1876	Natural killer cell
Cell 1877	Lymphocyte cell
Cell 1878	Natural killer cell
Cell 1879	Plasma cell
Cell 1880	Hematopoietic stem cell
Cell 1881	Dendritic cell
Cell 1882	Dendritic cell
Cell 1883	Dendritic cell
Cell 1884	Lymphocyte cell
Cell 1885	Lymphocyte cell
Cell 1886	Natural killer cell
Cell 1887	CD8 T cell
Cell 1888	Dendritic cell
Cell 1889	CD8 T cell
Cell 1890	Natural killer cell
Cell 1891	Natural killer cell
Cell 1892	Dendritic cell
Cell 1893	Dendritic cell
Cell 1894	Lymphocyte cell
Cell 1895	Lymphocyte cell
Cell 1896	Natural killer cell
Cell 1897	Lymphocyte cell
Cell 1898	Natural killer cell
Cell 1899	Plasmacytoid dendritic cell
Cell 1900	Dendritic cell
Cell 1901	Lymphocyte cell
Cell 1902	Natural killer cell
Cell 1903	Plasma cell
Cell 1904	Dendritic cell
Cell 1905	Plasmacytoid dendritic cell
Cell 1906	CD8 T cell
Cell 1907	CD8 T cell
Cell 1908	Natural killer cell
Cell 1909	Lymphocyte cell
Cell 1910	CD8 T cell
Cell 1911	Dendritic cell
Cell 1912	Dendritic cell
Cell 1913	Natural killer cell
Cell 1914	Lymphocyte cell
Cell 1915	Mucosal-associated invariant T cell
Cell 1916	Plasma cell
Cell 1917	Lymphocyte cell
Cell 1918	Hematopoietic stem cell
Cell 1919	Dendritic cell
Cell 1920	Dendritic cell
Cell 1921	Natural killer cell
Cell 1922	Natural killer cell
Cell 1923	Dendritic cell
Cell 1924	Natural killer cell
Cell 1925	Natural killer cell
Cell 1926	Dendritic cell

Cell 1927	Natural killer cell
Cell 1928	Dendritic cell
Cell 1929	Lymphocyte cell
Cell 1930	Hematopoietic stem cell
Cell 1931	Hematopoietic stem cell
Cell 1932	Hematopoietic stem cell
Cell 1933	Dendritic cell
Cell 1934	Lymphocyte cell
Cell 1935	Hematopoietic stem cell
Cell 1936	Natural killer cell
Cell 1937	Natural killer cell
Cell 1938	Lymphocyte cell
Cell 1939	Mucosal-associated invariant T cell
Cell 1940	Lymphocyte cell
Cell 1941	Dendritic cell
Cell 1942	CD8 T cell
Cell 1943	Lymphocyte cell
Cell 1944	Plasma cell
Cell 1945	Plasmacytoid dendritic cell
Cell 1946	Dendritic cell
Cell 1947	Plasma cell
Cell 1948	Lymphocyte cell
Cell 1949	Dendritic cell
Cell 1950	Natural killer cell
Cell 1951	Lymphocyte cell
Cell 1952	Lymphocyte cell
Cell 1953	Plasma cell
Cell 1954	Lymphocyte cell
Cell 1955	CD8 T cell
Cell 1956	Lymphocyte cell
Cell 1957	Mucosal-associated invariant T cell
Cell 1958	Hematopoietic stem cell
Cell 1959	Natural killer cell
Cell 1960	Hematopoietic stem cell
Cell 1961	Dendritic cell
Cell 1962	Plasmacytoid dendritic cell
Cell 1963	Dendritic cell
Cell 1964	Plasma cell
Cell 1965	Natural killer cell
Cell 1966	CD8 T cell
Cell 1967	Lymphocyte cell
Cell 1968	Natural killer cell
Cell 1969	Lymphocyte cell
Cell 1970	Lymphocyte cell
Cell 1971	Dendritic cell
Cell 1972	Natural killer cell
Cell 1973	Natural killer cell
Cell 1974	Plasmacytoid dendritic cell
Cell 1975	Plasma cell
Cell 1976	Lymphocyte cell
Cell 1977	Mucosal-associated invariant T cell

Cell 1978	Natural killer cell
Cell 1979	Dendritic cell
Cell 1980	Non-classical monocyte cell
Cell 1981	Hematopoietic stem cell
Cell 1982	CD8 T cell
Cell 1983	Hematopoietic stem cell
Cell 1984	Hematopoietic stem cell
Cell 1985	Natural killer cell
Cell 1986	Hematopoietic stem cell
Cell 1987	Natural killer cell
Cell 1988	Dendritic cell
Cell 1989	Natural killer cell
Cell 1990	Lymphocyte cell
Cell 1991	Hematopoietic stem cell
Cell 1992	Dendritic cell
Cell 1993	Lymphocyte cell
Cell 1994	Dendritic cell
Cell 1995	Natural killer cell
Cell 1996	Hematopoietic stem cell
Cell 1997	Natural killer cell
Cell 1998	Natural killer cell
Cell 1999	Dendritic cell
Cell 2000	Lymphocyte cell
Cell 2001	Lymphocyte cell
Cell 2002	Dendritic cell
Cell 2003	Mucosal-associated invariant T cell
Cell 2004	Plasmacytoid dendritic cell
Cell 2005	Natural killer cell
Cell 2006	Dendritic cell
Cell 2007	Dendritic cell
Cell 2008	Natural killer cell
Cell 2009	Hematopoietic stem cell
Cell 2010	Dendritic cell
Cell 2011	Lymphocyte cell
Cell 2012	CD8 T cell
Cell 2013	Natural killer cell
Cell 2014	Mucosal-associated invariant T cell
Cell 2015	Natural killer cell
Cell 2016	CD8 T cell
Cell 2018	Plasma cell
Cell 2019	Lymphocyte cell
Cell 2020	Plasma cell
Cell 2022	Lymphocyte cell
Cell 2023	Dendritic cell
Cell 2024	Mucosal-associated invariant T cell
Cell 2025	Lymphocyte cell
Cell 2026	Natural killer cell
Cell 2027	Lymphocyte cell
Cell 2028	CD8 T cell
Cell 2029	Lymphocyte cell
Cell 2030	Natural killer cell

Cell 2031	Lymphocyte cell
Cell 2032	Natural killer cell
Cell 2033	Dendritic cell
Cell 2034	Plasma cell
Cell 2035	CD8 T cell
Cell 2036	Hematopoietic stem cell
Cell 2037	Natural killer cell
Cell 2038	Lymphocyte cell
Cell 2039	CD8 T cell
Cell 2040	Non-classical monocyte cell
Cell 2041	Lymphocyte cell
Cell 2042	Lymphocyte cell
Cell 2043	Plasmacytoid dendritic cell
Cell 2044	Natural killer cell
Cell 2045	Natural killer cell
Cell 2046	CD8 T cell
Cell 2047	Non-classical monocyte cell
Cell 2048	Natural killer cell
Cell 2049	CD8 T cell
Cell 2050	Lymphocyte cell
Cell 2051	Mucosal-associated invariant T cell
Cell 2052	Dendritic cell
Cell 2053	Lymphocyte cell
Cell 2054	Lymphocyte cell
Cell 2055	Dendritic cell
Cell 2056	Hematopoietic stem cell
Cell 2057	Mucosal-associated invariant T cell
Cell 2058	Plasma cell
Cell 2059	Natural killer cell
Cell 2060	Hematopoietic stem cell
Cell 2061	Lymphocyte cell
Cell 2062	Mucosal-associated invariant T cell
Cell 2063	Dendritic cell
Cell 2064	CD8 T cell
Cell 2066	Natural killer cell
Cell 2068	Lymphocyte cell
Cell 2070	Mucosal-associated invariant T cell
Cell 2071	Lymphocyte cell
Cell 2073	Lymphocyte cell
Cell 2075	Hematopoietic stem cell
Cell 2076	Lymphocyte cell
Cell 2077	Lymphocyte cell
Cell 2078	Hematopoietic stem cell
Cell 2079	Lymphocyte cell
Cell 2080	Mucosal-associated invariant T cell
Cell 2081	Lymphocyte cell
Cell 2082	Natural killer cell
Cell 2084	CD8 T cell
Cell 2085	Hematopoietic stem cell
Cell 2086	Lymphocyte cell
Cell 2087	CD8 T cell

Cell 2088	Plasma cell
Cell 2089	Dendritic cell
Cell 2090	Natural killer cell
Cell 2091	Hematopoietic stem cell
Cell 2092	Natural killer cell
Cell 2093	Hematopoietic stem cell
Cell 2094	Natural killer cell
Cell 2095	Lymphocyte cell
Cell 2096	Hematopoietic stem cell
Cell 2097	Natural killer cell
Cell 2098	Natural killer cell
Cell 2099	CD8 T cell
Cell 2100	Natural killer cell
Cell 2101	Lymphocyte cell
Cell 2102	Hematopoietic stem cell
Cell 2103	Lymphocyte cell
Cell 2104	Hematopoietic stem cell
Cell 2105	Mucosal-associated invariant T cell
Cell 2106	Plasma cell
Cell 2107	CD8 T cell
Cell 2108	Mucosal-associated invariant T cell
Cell 2109	Natural killer cell
Cell 2110	Natural killer cell
Cell 2111	CD8 T cell
Cell 2112	Plasma cell
Cell 2113	Hematopoietic stem cell
Cell 2114	Hematopoietic stem cell
Cell 2115	Lymphocyte cell
Cell 2116	Dendritic cell
Cell 2118	Mucosal-associated invariant T cell
Cell 2119	Natural killer cell
Cell 2120	Hematopoietic stem cell
Cell 2121	Natural killer cell
Cell 2122	Hematopoietic stem cell
Cell 2123	Natural killer cell
Cell 2124	Natural killer cell
Cell 2125	Natural killer cell
Cell 2127	Lymphocyte cell
Cell 2128	Natural killer cell
Cell 2129	Lymphocyte cell
Cell 2131	Dendritic cell
Cell 2132	Plasmacytoid dendritic cell
Cell 2133	Natural killer cell
Cell 2134	Natural killer cell
Cell 2135	Dendritic cell
Cell 2136	Hematopoietic stem cell
Cell 2137	Plasmacytoid dendritic cell
Cell 2138	Lymphocyte cell
Cell 2139	Dendritic cell
Cell 2140	Dendritic cell
Cell 2141	Dendritic cell

Cell 2142	Dendritic cell
Cell 2143	Natural killer cell
Cell 2144	Dendritic cell
Cell 2145	CD8 T cell
Cell 2146	Hematopoietic stem cell
Cell 2147	Natural killer cell
Cell 2148	Lymphocyte cell
Cell 2149	Natural killer cell
Cell 2150	Natural killer cell
Cell 2151	Natural killer cell
Cell 2152	CD8 T cell
Cell 2153	Mucosal-associated invariant T cell
Cell 2154	Lymphocyte cell
Cell 2155	Plasmacytoid dendritic cell
Cell 2157	Dendritic cell
Cell 2158	Plasma cell
Cell 2159	Dendritic cell
Cell 2160	Natural killer cell
Cell 2161	CD8 T cell
Cell 2162	Mucosal-associated invariant T cell
Cell 2163	Lymphocyte cell
Cell 2164	Dendritic cell
Cell 2165	Lymphocyte cell
Cell 2167	Natural killer cell
Cell 2168	Natural killer cell
Cell 2169	Dendritic cell
Cell 2170	Dendritic cell
Cell 2171	Plasmacytoid dendritic cell
Cell 2172	Natural killer cell
Cell 2173	Lymphocyte cell
Cell 2174	Natural killer cell
Cell 2175	Lymphocyte cell
Cell 2176	CD8 T cell
Cell 2177	Lymphocyte cell
Cell 2178	CD8 T cell
Cell 2181	Plasma cell
Cell 2182	Dendritic cell
Cell 2183	Lymphocyte cell
Cell 2184	Dendritic cell
Cell 2185	Natural killer cell
Cell 2186	Natural killer cell
Cell 2187	Lymphocyte cell
Cell 2188	Mucosal-associated invariant T cell
Cell 2189	Natural killer cell
Cell 2190	Lymphocyte cell
Cell 2191	Natural killer cell
Cell 2192	Plasma cell
Cell 2193	Lymphocyte cell
Cell 2194	Mucosal-associated invariant T cell
Cell 2195	Plasma cell
Cell 2196	Dendritic cell

Cell 2197	Myeloid progenitor
Cell 2198	Dendritic cell
Cell 2199	Lymphocyte cell
Cell 2200	Lymphocyte cell
Cell 2201	Natural killer cell
Cell 2202	Hematopoietic stem cell
Cell 2203	Lymphocyte cell
Cell 2204	Dendritic cell
Cell 2205	Lymphocyte cell
Cell 2206	Non-classical monocyte cell
Cell 2207	Hematopoietic stem cell
Cell 2208	Natural killer cell
Cell 2209	Plasmacytoid dendritic cell
Cell 2210	Plasmacytoid dendritic cell
Cell 2211	Plasma cell
Cell 2212	Plasma cell
Cell 2213	Lymphocyte cell
Cell 2214	Plasmacytoid dendritic cell
Cell 2215	Dendritic cell
Cell 2216	Hematopoietic stem cell
Cell 2217	Dendritic cell
Cell 2219	Dendritic cell
Cell 2220	CD8 T cell
Cell 2221	CD8 T cell
Cell 2222	Hematopoietic stem cell
Cell 2223	Plasmacytoid dendritic cell
Cell 2224	CD8 T cell
Cell 2225	Lymphocyte cell
Cell 2226	Natural killer cell
Cell 2227	Plasmacytoid dendritic cell
Cell 2228	Lymphocyte cell
Cell 2229	Dendritic cell
Cell 2230	Hematopoietic stem cell
Cell 2231	Lymphocyte cell
Cell 2232	Lymphocyte cell
Cell 2233	Natural killer cell
Cell 2234	Natural killer cell
Cell 2235	Plasma cell
Cell 2237	Lymphocyte cell
Cell 2239	Dendritic cell
Cell 2240	Dendritic cell
Cell 2241	Natural killer cell
Cell 2242	Mucosal-associated invariant T cell
Cell 2243	Mucosal-associated invariant T cell
Cell 2245	Lymphocyte cell
Cell 2246	Lymphocyte cell
Cell 2247	CD8 T cell
Cell 2248	Dendritic cell
Cell 2249	Plasma cell
Cell 2250	Dendritic cell
Cell 2251	Dendritic cell

Cell 2252	Natural killer cell
Cell 2253	Natural killer cell
Cell 2254	Natural killer cell
Cell 2255	Lymphocyte cell
Cell 2256	Dendritic cell
Cell 2257	Lymphocyte cell
Cell 2258	Lymphocyte cell
Cell 2259	Natural killer cell
Cell 2260	Lymphocyte cell
Cell 2261	Natural killer cell
Cell 2262	Lymphocyte cell
Cell 2263	Lymphocyte cell
Cell 2264	Lymphocyte cell
Cell 2265	Dendritic cell
Cell 2266	Natural killer cell
Cell 2267	Dendritic cell
Cell 2268	Lymphocyte cell
Cell 2269	Plasma cell
Cell 2270	CD8 T cell
Cell 2271	CD8 T cell
Cell 2272	Plasma cell
Cell 2274	Dendritic cell
Cell 2275	Lymphocyte cell
Cell 2276	Plasmacytoid dendritic cell
Cell 2277	Lymphocyte cell
Cell 2278	Plasma cell
Cell 2279	CD8 T cell
Cell 2280	Lymphocyte cell
Cell 2281	Lymphocyte cell
Cell 2282	Lymphocyte cell
Cell 2283	Dendritic cell
Cell 2284	Dendritic cell
Cell 2285	Dendritic cell
Cell 2286	Lymphocyte cell
Cell 2287	Natural killer cell
Cell 2288	Lymphocyte cell
Cell 2289	Natural killer cell
Cell 2290	Lymphocyte cell
Cell 2291	Natural killer cell
Cell 2292	Dendritic cell
Cell 2293	Dendritic cell
Cell 2294	Plasma cell
Cell 2295	Plasmacytoid dendritic cell
Cell 2296	Natural killer cell
Cell 2297	Lymphocyte cell
Cell 2298	CD8 T cell
Cell 2299	Lymphocyte cell
Cell 2301	Mucosal-associated invariant T cell
Cell 2302	Plasma cell
Cell 2303	Dendritic cell
Cell 2304	Natural killer cell



Cell 2305	Hematopoietic stem cell
Cell 2306	Dendritic cell
Cell 2307	Hematopoietic stem cell
Cell 2308	Hematopoietic stem cell
Cell 2309	Natural killer cell
Cell 2310	Dendritic cell
Cell 2311	Lymphocyte cell
Cell 2312	Lymphocyte cell
Cell 2313	Lymphocyte cell
Cell 2314	Natural killer cell
Cell 2315	Plasmacytoid dendritic cell
Cell 2316	Natural killer cell
Cell 2317	Plasmacytoid dendritic cell
Cell 2318	CD8 T cell
Cell 2319	Dendritic cell
Cell 2320	Hematopoietic stem cell
Cell 2321	Hematopoietic stem cell
Cell 2322	Plasma cell
Cell 2323	Hematopoietic stem cell
Cell 2325	Natural killer cell
Cell 2326	Plasmacytoid dendritic cell
Cell 2327	Natural killer cell
Cell 2328	Plasma cell
Cell 2329	Plasmacytoid dendritic cell
Cell 2330	Natural killer cell
Cell 2331	Dendritic cell
Cell 2332	Lymphocyte cell
Cell 2333	Natural killer cell
Cell 2334	Lymphocyte cell
Cell 2335	Lymphocyte cell
Cell 2336	Natural killer cell
Cell 2337	CD8 T cell
Cell 2338	Dendritic cell
Cell 2339	Natural killer cell
Cell 2340	Dendritic cell
Cell 2341	Dendritic cell
Cell 2342	Mucosal-associated invariant T cell
Cell 2343	Natural killer cell
Cell 2344	CD8 T cell
Cell 2345	Lymphocyte cell
Cell 2346	Lymphocyte cell
Cell 2347	Plasma cell
Cell 2348	Natural killer cell
Cell 2349	Plasma cell
Cell 2350	Dendritic cell
Cell 2351	Hematopoietic stem cell
Cell 2352	Natural killer cell
Cell 2353	Lymphocyte cell
Cell 2354	Dendritic cell
Cell 2356	Hematopoietic stem cell
Cell 2357	Lymphocyte cell

Cell 2358	Lymphocyte cell
Cell 2359	Non-classical monocyte cell
Cell 2360	Lymphocyte cell
Cell 2361	Plasma cell
Cell 2362	Mucosal-associated invariant T cell
Cell 2363	Natural killer cell
Cell 2364	Lymphocyte cell
Cell 2365	Lymphocyte cell
Cell 2366	Natural killer cell
Cell 2367	Mucosal-associated invariant T cell
Cell 2368	CD8 T cell
Cell 2369	Natural killer cell
Cell 2370	Dendritic cell
Cell 2371	Mucosal-associated invariant T cell
Cell 2372	Dendritic cell
Cell 2373	Lymphocyte cell
Cell 2374	Lymphocyte cell
Cell 2375	Hematopoietic stem cell
Cell 2376	Natural killer cell
Cell 2377	Dendritic cell
Cell 2378	Dendritic cell
Cell 2379	CD8 T cell
Cell 2380	Hematopoietic stem cell
Cell 2381	Mucosal-associated invariant T cell
Cell 2383	Plasma cell
Cell 2384	Plasma cell
Cell 2385	Plasma cell
Cell 2386	Lymphocyte cell
Cell 2387	CD8 T cell
Cell 2388	Dendritic cell
Cell 2389	Natural killer cell
Cell 2390	Lymphocyte cell
Cell 2391	Lymphocyte cell
Cell 2392	Natural killer cell
Cell 2393	CD8 T cell
Cell 2394	Natural killer cell
Cell 2395	CD8 T cell
Cell 2396	Dendritic cell
Cell 2397	Natural killer cell
Cell 2398	Natural killer cell
Cell 2400	Natural killer cell
Cell 2401	Dendritic cell
Cell 2402	Dendritic cell
Cell 2403	Lymphocyte cell
Cell 2404	Natural killer cell
Cell 2405	Dendritic cell
Cell 2406	Natural killer cell
Cell 2407	Natural killer cell
Cell 2408	Plasma cell
Cell 2409	CD8 T cell
Cell 2410	Lymphocyte cell

Cell 2411	Dendritic cell
Cell 2412	CD8 T cell
Cell 2413	Natural killer cell
Cell 2414	Dendritic cell
Cell 2416	Hematopoietic stem cell
Cell 2417	Natural killer cell
Cell 2418	Natural killer cell
Cell 2419	Plasma cell
Cell 2420	Hematopoietic stem cell
Cell 2421	Plasmacytoid dendritic cell
Cell 2422	Natural killer cell
Cell 2423	Lymphocyte cell
Cell 2424	Lymphocyte cell
Cell 2425	CD8 T cell
Cell 2426	Dendritic cell
Cell 2427	Dendritic cell
Cell 2428	Dendritic cell
Cell 2429	Dendritic cell
Cell 2430	Dendritic cell
Cell 2431	Lymphocyte cell
Cell 2432	Dendritic cell
Cell 2434	Plasma cell
Cell 2435	Lymphocyte cell
Cell 2436	Lymphocyte cell
Cell 2437	Natural killer cell
Cell 2438	Lymphocyte cell
Cell 2439	Lymphocyte cell
Cell 2440	Natural killer cell
Cell 2441	Lymphocyte cell
Cell 2442	Dendritic cell
Cell 2443	Lymphocyte cell
Cell 2444	Lymphocyte cell
Cell 2445	Dendritic cell
Cell 2446	Dendritic cell
Cell 2447	CD8 T cell
Cell 2449	Lymphocyte cell
Cell 2451	Hematopoietic stem cell
Cell 2452	Lymphocyte cell
Cell 2453	Lymphocyte cell
Cell 2454	Dendritic cell
Cell 2455	Hematopoietic stem cell
Cell 2456	Plasma cell
Cell 2457	Mucosal-associated invariant T cell
Cell 2458	Lymphocyte cell
Cell 2459	Plasmacytoid dendritic cell
Cell 2460	Lymphocyte cell
Cell 2461	Natural killer cell
Cell 2462	Natural killer cell
Cell 2463	Dendritic cell
Cell 2464	Lymphocyte cell
Cell 2465	Hematopoietic stem cell

Cell 2466	Hematopoietic stem cell
Cell 2467	Dendritic cell
Cell 2468	Hematopoietic stem cell
Cell 2469	Hematopoietic stem cell
Cell 2470	CD8 T cell
Cell 2471	Plasmacytoid dendritic cell
Cell 2472	Natural killer cell
Cell 2473	Natural killer cell
Cell 2474	Natural killer cell
Cell 2475	Natural killer cell
Cell 2476	Plasma cell
Cell 2477	Dendritic cell
Cell 2478	Lymphocyte cell
Cell 2479	Lymphocyte cell
Cell 2480	Plasma cell
Cell 2481	Dendritic cell
Cell 2482	Natural killer cell
Cell 2483	Lymphocyte cell
Cell 2484	Natural killer cell
Cell 2485	Hematopoietic stem cell
Cell 2486	Natural killer cell
Cell 2487	Plasma cell
Cell 2488	Mucosal-associated invariant T cell
Cell 2489	Plasma cell
Cell 2490	Plasmacytoid dendritic cell
Cell 2491	Dendritic cell
Cell 2492	CD8 T cell
Cell 2493	Natural killer cell
Cell 2494	Hematopoietic stem cell
Cell 2495	Natural killer cell
Cell 2496	Natural killer cell
Cell 2497	Dendritic cell
Cell 2498	CD8 T cell
Cell 2499	Plasmacytoid dendritic cell
Cell 2500	Lymphocyte cell
Cell 2501	Lymphocyte cell
Cell 2502	Dendritic cell
Cell 2503	Lymphocyte cell
Cell 2504	Lymphocyte cell
Cell 2506	Dendritic cell
Cell 2507	Plasma cell
Cell 2508	Lymphocyte cell
Cell 2509	Lymphocyte cell
Cell 2510	CD8 T cell
Cell 2511	Lymphocyte cell
Cell 2512	Lymphocyte cell
Cell 2513	CD8 T cell
Cell 2514	Natural killer cell
Cell 2515	Plasma cell
Cell 2516	Dendritic cell
Cell 2517	CD8 T cell

Cell 2518	Plasma cell
Cell 2519	Dendritic cell
Cell 2520	Natural killer cell
Cell 2521	Natural killer cell
Cell 2522	Natural killer cell
Cell 2523	Dendritic cell
Cell 2524	Lymphocyte cell
Cell 2525	Natural killer cell
Cell 2526	Dendritic cell
Cell 2527	Dendritic cell
Cell 2528	Dendritic cell
Cell 2529	Dendritic cell
Cell 2530	Plasma cell
Cell 2531	Mucosal-associated invariant T cell
Cell 2532	Natural killer cell
Cell 2533	Plasma cell
Cell 2534	Natural killer cell
Cell 2535	Natural killer cell
Cell 2536	CD8 T cell
Cell 2537	Dendritic cell
Cell 2538	Dendritic cell
Cell 2539	Natural killer cell
Cell 2540	Mucosal-associated invariant T cell
Cell 2541	Mucosal-associated invariant T cell
Cell 2542	Hematopoietic stem cell
Cell 2543	Non-classical monocyte cell
Cell 2544	Dendritic cell
Cell 2546	Dendritic cell
Cell 2547	Plasma cell
Cell 2548	CD8 T cell
Cell 2549	Natural killer cell
Cell 2550	Plasmacytoid dendritic cell
Cell 2551	Plasmacytoid dendritic cell
Cell 2552	Lymphocyte cell
Cell 2553	Dendritic cell
Cell 2554	Plasma cell
Cell 2555	Dendritic cell
Cell 2556	Myeloid progenitor
Cell 2557	Plasmacytoid dendritic cell
Cell 2558	Dendritic cell
Cell 2560	CD8 T cell
Cell 2561	Lymphocyte cell
Cell 2562	Natural killer cell
Cell 2564	Plasmacytoid dendritic cell
Cell 2565	Plasmacytoid dendritic cell
Cell 2566	Lymphocyte cell
Cell 2567	Natural killer cell
Cell 2568	Lymphocyte cell
Cell 2569	CD8 T cell
Cell 2570	Lymphocyte cell
Cell 2572	Hematopoietic stem cell

Cell 2573	Natural killer cell
Cell 2574	Hematopoietic stem cell
Cell 2575	Plasmacytoid dendritic cell
Cell 2576	Natural killer cell
Cell 2577	Dendritic cell
Cell 2578	Dendritic cell
Cell 2579	Dendritic cell
Cell 2580	Lymphocyte cell
Cell 2581	Natural killer cell
Cell 2582	Myeloid progenitor
Cell 2583	Plasma cell
Cell 2584	Lymphocyte cell
Cell 2585	CD8 T cell
Cell 2586	Dendritic cell
Cell 2587	Plasma cell
Cell 2588	Mucosal-associated invariant T cell
Cell 2589	Plasma cell
Cell 2590	Dendritic cell
Cell 2591	Lymphocyte cell
Cell 2592	Lymphocyte cell
Cell 2593	Natural killer cell
Cell 2594	Lymphocyte cell
Cell 2595	Hematopoietic stem cell
Cell 2596	Natural killer cell
Cell 2597	Plasma cell
Cell 2598	Natural killer cell
Cell 2599	CD8 T cell
Cell 2600	Natural killer cell
Cell 2602	Non-classical monocyte cell
Cell 2603	Dendritic cell
Cell 2604	Plasma cell
Cell 2605	CD8 T cell
Cell 2606	CD8 T cell
Cell 2607	Plasma cell
Cell 2608	Plasmacytoid dendritic cell
Cell 2609	Natural killer cell
Cell 2610	Hematopoietic stem cell
Cell 2611	Hematopoietic stem cell
Cell 2612	Lymphocyte cell
Cell 2613	Natural killer cell
Cell 2614	Natural killer cell
Cell 2615	Natural killer cell
Cell 2616	Lymphocyte cell
Cell 2617	Lymphocyte cell
Cell 2618	CD8 T cell
Cell 2619	Plasmacytoid dendritic cell
Cell 2620	CD8 T cell
Cell 2621	Dendritic cell
Cell 2622	Natural killer cell
Cell 2623	Hematopoietic stem cell
Cell 2624	Mucosal-associated invariant T cell

Cell 2625	CD8 T cell
Cell 2626	Hematopoietic stem cell
Cell 2627	Plasmacytoid dendritic cell
Cell 2628	Plasma cell
Cell 2630	Lymphocyte cell
Cell 2631	Lymphocyte cell
Cell 2632	Natural killer cell
Cell 2633	Lymphocyte cell
Cell 2634	Non-classical monocyte cell
Cell 2635	CD8 T cell
Cell 2636	Mucosal-associated invariant T cell
Cell 2637	Lymphocyte cell
Cell 2638	CD8 T cell
Cell 2639	Hematopoietic stem cell
Cell 2640	Mucosal-associated invariant T cell
Cell 2641	Plasmacytoid dendritic cell
Cell 2642	Dendritic cell
Cell 2643	Lymphocyte cell
Cell 2644	Natural killer cell
Cell 2645	Natural killer cell
Cell 2646	Hematopoietic stem cell
Cell 2647	CD8 T cell
Cell 2648	CD8 T cell
Cell 2649	Lymphocyte cell
Cell 2650	Dendritic cell
Cell 2651	Lymphocyte cell
Cell 2652	Plasma cell
Cell 2653	Natural killer cell
Cell 2654	Natural killer cell
Cell 2655	Plasma cell
Cell 2656	Dendritic cell
Cell 2657	Lymphocyte cell
Cell 2658	Plasmacytoid dendritic cell
Cell 2659	Lymphocyte cell
Cell 2660	Lymphocyte cell
Cell 2661	Dendritic cell
Cell 2662	Hematopoietic stem cell
Cell 2663	Natural killer cell
Cell 2664	Natural killer cell
Cell 2665	Natural killer cell
Cell 2666	Dendritic cell
Cell 2667	Lymphocyte cell
Cell 2668	Plasmacytoid dendritic cell
Cell 2669	Lymphocyte cell
Cell 2670	Natural killer cell
Cell 2671	Lymphocyte cell
Cell 2672	Plasma cell
Cell 2673	Lymphocyte cell
Cell 2675	Lymphocyte cell
Cell 2676	Natural killer cell
Cell 2677	CD8 T cell

Cell 2678	Dendritic cell
Cell 2679	Lymphocyte cell
Cell 2680	Lymphocyte cell
Cell 2681	Natural killer cell
Cell 2682	Plasma cell
Cell 2683	Natural killer cell
Cell 2684	Plasmacytoid dendritic cell
Cell 2685	Plasma cell
Cell 2686	Natural killer cell
Cell 2687	Dendritic cell
Cell 2688	Dendritic cell
Cell 2689	Lymphocyte cell
Cell 2691	Lymphocyte cell
Cell 2692	Lymphocyte cell
Cell 2693	Dendritic cell
Cell 2694	Lymphocyte cell
Cell 2695	CD8 T cell
Cell 2696	Dendritic cell
Cell 2697	Non-classical monocyte cell
Cell 2698	Lymphocyte cell
Cell 2699	Plasma cell
Cell 2700	Dendritic cell
Cell 2701	Plasma cell
Cell 2702	Lymphocyte cell
Cell 2703	Natural killer cell
Cell 2705	Lymphocyte cell
Cell 2706	Non-classical monocyte cell
Cell 2707	Dendritic cell
Cell 2708	Lymphocyte cell
Cell 2709	Natural killer cell
Cell 2710	Dendritic cell
Cell 2711	Natural killer cell
Cell 2712	CD8 T cell
Cell 2713	CD8 T cell
Cell 2714	Lymphocyte cell
Cell 2715	Lymphocyte cell
Cell 2716	Mucosal-associated invariant T cell
Cell 2717	Natural killer cell
Cell 2718	CD8 T cell
Cell 2719	Plasma cell
Cell 2720	Natural killer cell
Cell 2721	Natural killer cell
Cell 2722	Plasma cell
Cell 2723	Natural killer cell
Cell 2724	CD8 T cell
Cell 2725	Natural killer cell
Cell 2726	Mucosal-associated invariant T cell
Cell 2727	Dendritic cell
Cell 2728	Natural killer cell
Cell 2729	Non-classical monocyte cell
Cell 2730	Lymphocyte cell



Cell 2731	Dendritic cell
Cell 2732	Dendritic cell
Cell 2733	Natural killer cell
Cell 2734	Lymphocyte cell
Cell 2735	Hematopoietic stem cell
Cell 2736	Natural killer cell
Cell 2737	CD8 T cell
Cell 2738	Plasma cell
Cell 2739	Dendritic cell
Cell 2740	Natural killer cell
Cell 2741	Non-classical monocyte cell
Cell 2742	Natural killer cell
Cell 2743	Dendritic cell
Cell 2744	Plasma cell
Cell 2745	Natural killer cell
Cell 2746	Natural killer cell
Cell 2747	Dendritic cell
Cell 2748	Dendritic cell
Cell 2749	Natural killer cell
Cell 2750	Hematopoietic stem cell
Cell 2751	Hematopoietic stem cell
Cell 2752	Hematopoietic stem cell
Cell 2753	Dendritic cell
Cell 2754	Hematopoietic stem cell
Cell 2755	Dendritic cell
Cell 2756	CD8 T cell
Cell 2757	Mucosal-associated invariant T cell
Cell 2758	Hematopoietic stem cell
Cell 2759	Plasma cell
Cell 2760	Hematopoietic stem cell
Cell 2761	Dendritic cell
Cell 2762	CD8 T cell
Cell 2763	Plasma cell
Cell 2764	Plasma cell
Cell 2765	Hematopoietic stem cell
Cell 2766	Natural killer cell
Cell 2767	Dendritic cell
Cell 2768	Natural killer cell
Cell 2769	Dendritic cell
Cell 2770	CD8 T cell
Cell 2771	Mucosal-associated invariant T cell
Cell 2772	Lymphocyte cell
Cell 2773	Non-classical monocyte cell
Cell 2774	Natural killer cell
Cell 2775	Dendritic cell
Cell 2776	Hematopoietic stem cell
Cell 2777	Plasma cell
Cell 2778	Natural killer cell
Cell 2779	Natural killer cell
Cell 2780	CD8 T cell
Cell 2781	Mucosal-associated invariant T cell

Cell 2782	Dendritic cell
Cell 2783	Natural killer cell
Cell 2784	Dendritic cell
Cell 2785	Natural killer cell
Cell 2786	Natural killer cell
Cell 2787	Plasma cell
Cell 2788	Lymphocyte cell
Cell 2789	CD8 T cell
Cell 2790	CD8 T cell
Cell 2791	Lymphocyte cell

```
saveRDS(metadata, "data1_meta_data.rds")
```