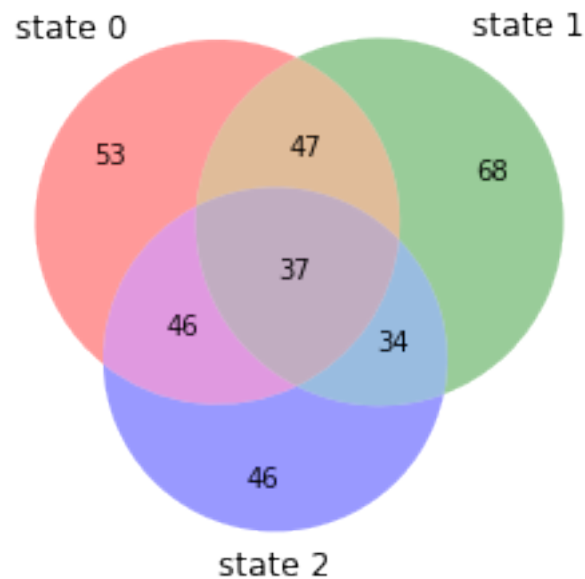


## Supplementary 5 - Venn diagram of intersection of targets

March 31, 2020

Ncoa2

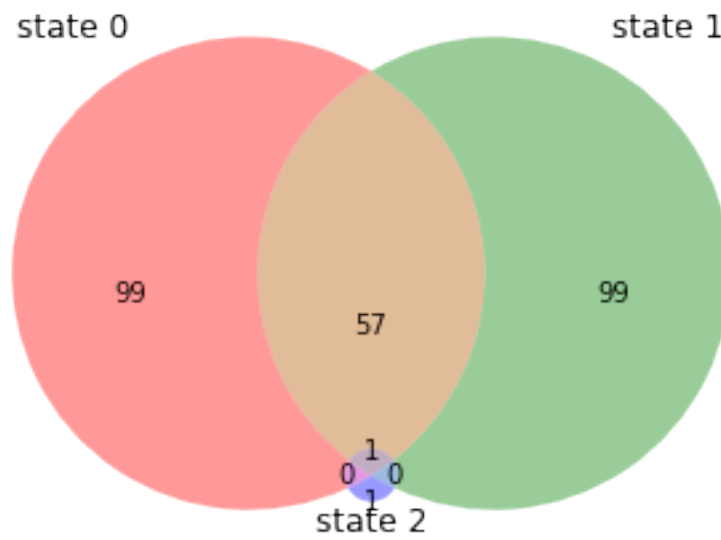


intersected genes of three states:

```
['C6', 'Acs14', 'Cyp2c37', 'Saa3', 'Gys2', 'Alas2', 'Rad23b', 'Abhd2', 'Aplp2',  
'Hbb-bt', 'Nhp2', 'Bnip3l', '1110008P14Rik', 'Gm2a', 'Gulo', 'Msra', 'Mia3',  
'Copz1', 'Ces3b', 'Gjb1', 'Tax1bp1', 'Fkbp11', 'Copa', 'Hsd17b12', 'Nme2',  
'Cyp4a14', 'Cdkn1c', 'F13b', 'G6pc', 'Hspb8', 'Tmed5', 'Ywhaz', 'Sdc2', 'Eif3i',  
'Ftl1-ps1', 'Iqgap2', 'Serinc3']
```

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Stat1



intersected genes of three states:

['Snrpg']

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Lrrfip1



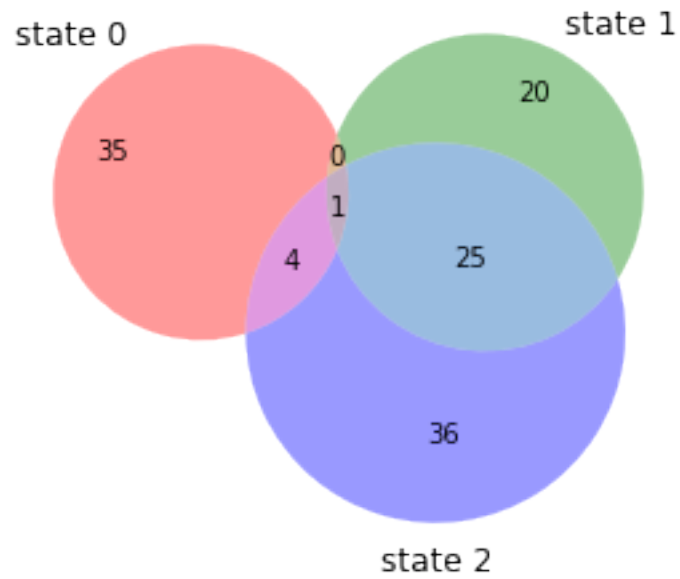
intersected genes of three states:

['C6', 'Cyp2a12', 'Chp1', 'Cyp2c37', 'Pdcd4', '1300017J02Rik', 'Alas2',

'1810008I18Rik', 'Anxa5', 'Mup18', 'Mup21', 'Hba-a1', 'Nat8f1', 'Gm2a',  
 'Tgoln1', 'Slc16a2', 'Slc22a30', 'Cdkn1c', 'Por', 'Grn', 'Ly6d', 'Afp',  
 'Ugt2b35', 'Ugt3a2', 'Gsr', 'H6pd', 'Lpin1', 'Defb1', 'Stmn1']

-----

Hes6

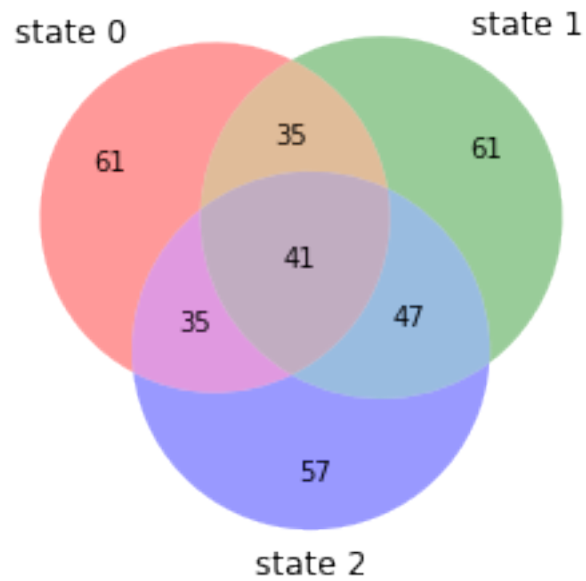


intersected genes of three states:

['Tfr2']

-----

Elk4

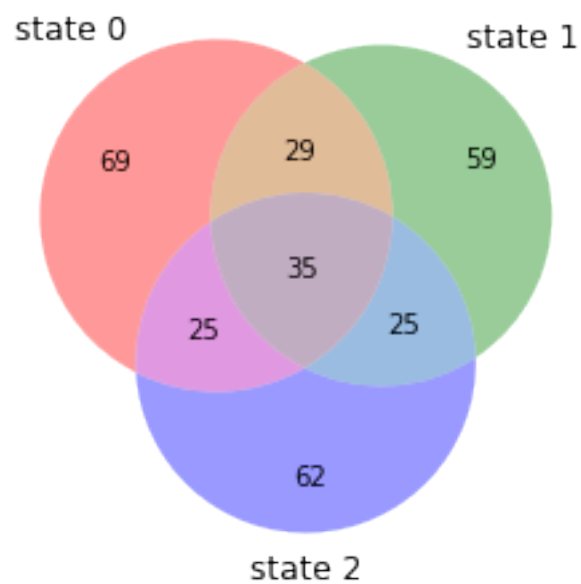


intersected genes of three states:

```
['C6', 'Ssr1', 'Sult2a2', '2200002D01Rik', 'Avpi1', 'Cyp2c67', 'Pdcd4',
'1300017J02Rik', 'Acad11', 'Slc27a5', 'March5', 'Saa3', '1810008I18Rik',
'Gabarapl1', 'Clec2d', 'Hba-a1', 'Hba-a2', 'Cyp2j5', 'Tgoln1', 'Ctsb', 'Acsml',
'Slc22a30', 'Slc35d1', 'Mettl7a1', 'Atp11c', 'Nme2', 'Elov13', 'Cyp2d10',
'Tmprss6', 'Ldhd', 'Ube2l6', 'Ptprf', 'Ddx3x', 'Ly6d', 'S100a9', 'Slc25a4',
'Steap4', 'Ragef4', 'Lpin1', 'Defb1', 'Hsd3b5']
```

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Nr5a2

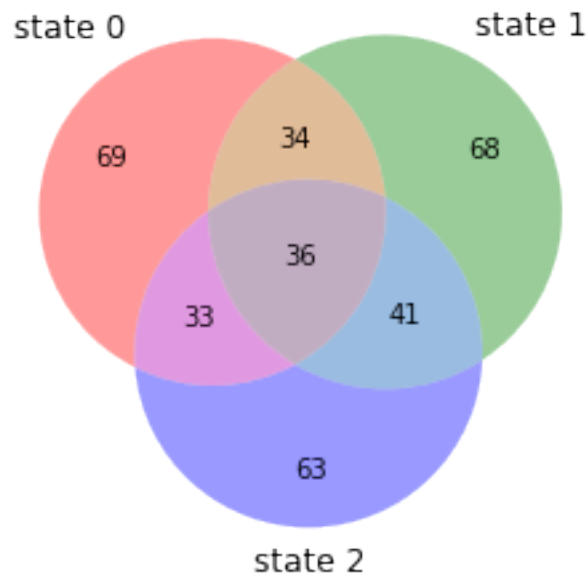


intersected genes of three states:

```
['Ssr1', 'Sult2a2', 'Lrp1', '2200002D01Rik', 'Aqp9', 'Cyp2a12', 'Hamp2',
'Tmem30a', 'Pnrc1', 'Prdx4', 'Gys2', 'I11rap', 'Clec2d', 'Cyp4a12a', 'Ranbp1',
'Hba-a1', 'Gm4952', 'Gjb1', 'Slc35d1', 'C8b', 'Adh4', 'Gstp3', 'Cyp4a14',
'Elovl3', 'Gm4788', 'Serinc1', 'Tmed5', 'Ugt2b35', 'S100a9', 'F12', 'Txnrd1',
'Serpina6', 'Lpin2', 'Defb1', 'Hao2']
```

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Atf6

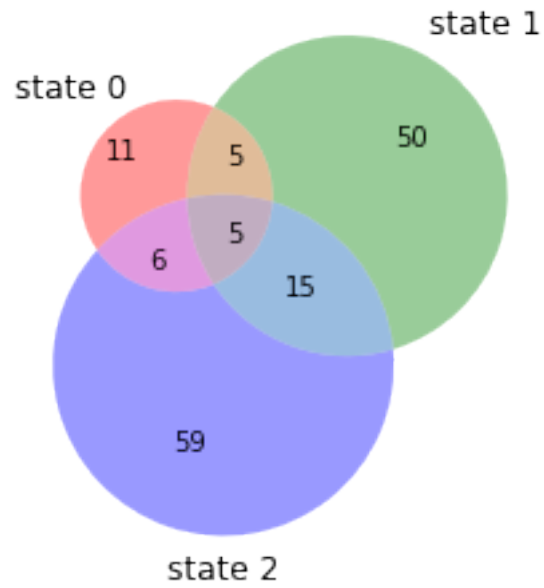


intersected genes of three states:

```
['C6', 'Sult2a2', 'Bckdha', 'Pnrc1', '1300017J02Rik', 'Saa3', 'Abhd2', 'Hba-a2',
'Hbb-bt', 'AW112010', 'Nat8f1', 'Mia3', 'Gk', 'Hsd17b12', 'Nsdhl', 'Vmp1',
'Nme2', 'Elovl3', 'Tfr2', 'Acly', 'Tmprss6', 'Lman1', 'Kynu', 'Man1a', 'Hspb8',
'Tmem56', 'Afp', 'Spp2', 'F12', 'Slc25a4', 'Ssu72', 'Serpina6', 'Lpin2',
'Tmem19', 'Prkd3', 'Hsd3b5']
```

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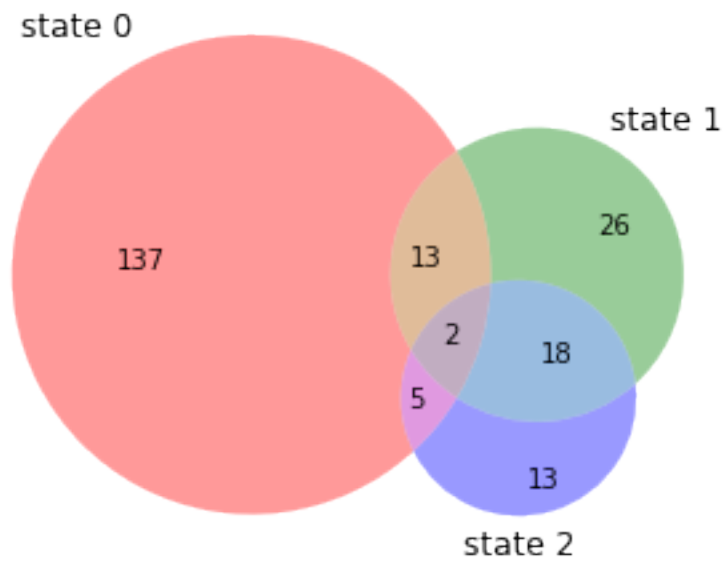
Nr1i3



intersected genes of three states:  
 ['Mup18', 'Mup21', 'Krtcap2', 'Actg1', 'Ndufb7']

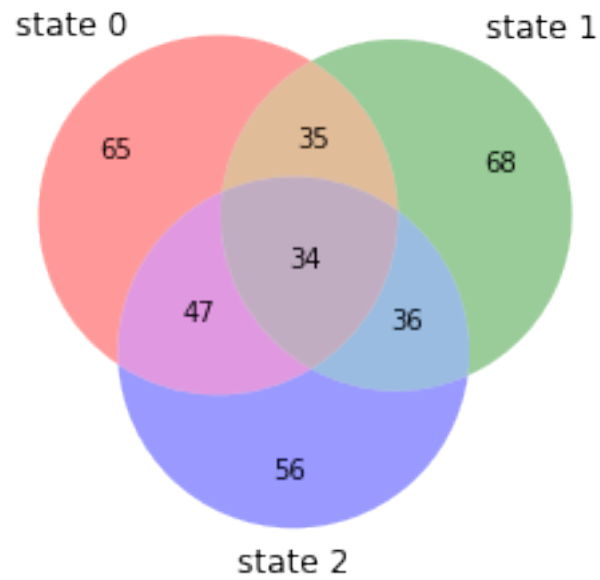
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Prox1



intersected genes of three states:  
 ['Sult2a2', 'Ly6d']

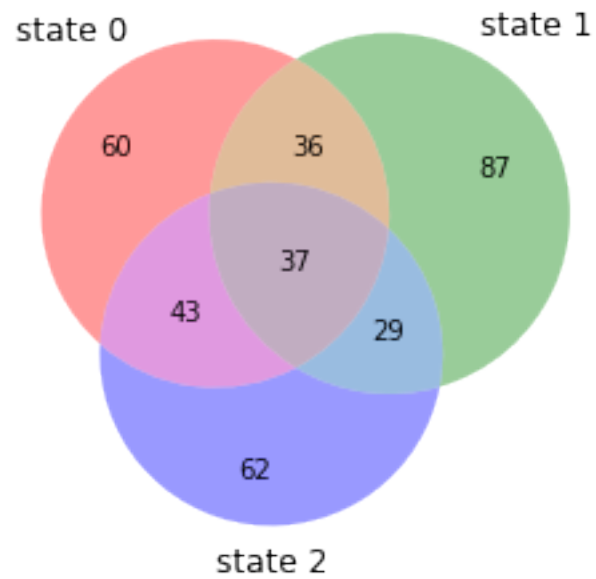
-----  
Irf6



intersected genes of three states:

```
['C6', 'Ssr1', 'Mup9', 'Hamp2', 'Pnrc1', '1300017J02Rik', 'Sult2a6', 'Slc2a2',  
'Saa3', 'Cib1', 'Bnip3l', 'Leap2', 'Tgoln1', 'Ces3b', 'Sppl2a', 'C8b', 'Dph3',  
'Acadsb', 'Nme2', 'F13b', 'Ldhd', 'Cd164', 'Ly6d', 'Man1a', 'Afp', 'Lifr',  
'Cst3', 'Cyp51', 'Serinc3', 'H6pd', 'Rapgef4', 'Rpn2', 'Snrpd1', 'Tram1']
```

-----  
Dnajc1

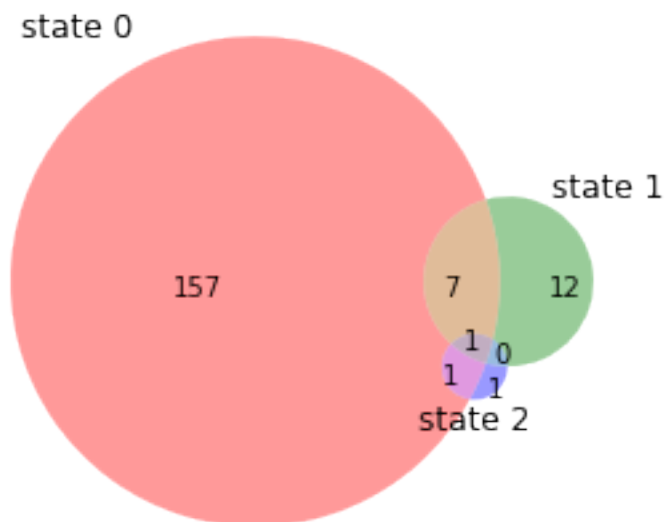


intersected genes of three states:

```
['Sult2a2', 'Polr2i', 'Cyp2c23', 'Ube2r2', 'Tm9sf3', 'Slc38a3', 'Acaa1a',
'Gys2', 'Uroc1', 'Rpn1', 'Gm2a', 'Tgoln1', 'Mettl7a1', 'Atp6v0e', 'Hsd17b12',
'Acadsb', 'Mttp', 'U2af1', 'Cyp4f14', 'Cdk2ap2', 'Cyp2d10', 'F13b', 'G6pc',
'Grn', 'Tmprss6', 'Ube2l6', 'Man1a', 'Tubb5', 'Serinc1', 'Fasn', 'Ywhaz',
'Ugt2b1', 'Gadd45g', 'Raph1', 'Ftl1-ps1', 'Serpina6', 'Serinc3']
```

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Rxra



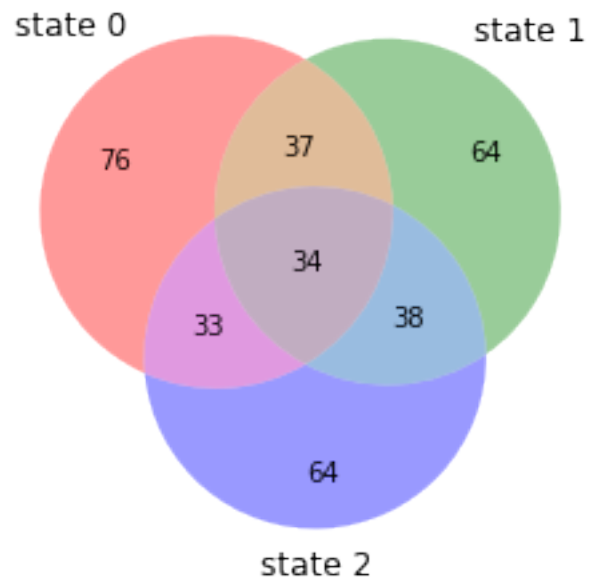


intersected genes of three states:

['Iqgap2']

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Rc3h2

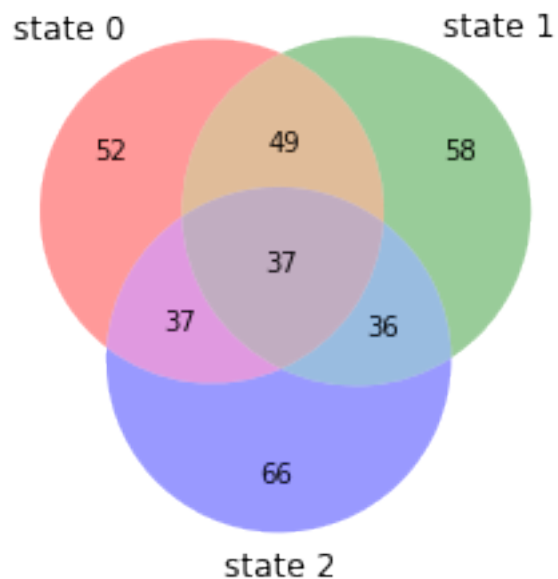


intersected genes of three states:

['Ssr1', 'Mup9', 'Clpx', 'Cyp1a2', 'Cyp2c37', 'Pdcd4', 'Il1rap', 'Kng2',  
'Abhd2', 'Eif4g1', 'Hba-a1', 'Gm4952', 'Slc39a14', 'Bnip3l', 'Coq8a', 'Bet1',  
'Cyp4a14', 'Tfr2', 'Apol9a', 'Cd164', 'Ly6d', 'Man1a', 'Tubb5', 'Fech', 'Fasn',  
'Afp', 'Cers2', 'Crip2', 'Gstm2', 'Raph1', 'Serpina10', 'Serinc3', 'H6pd',  
'Pdia6']

-----

Sp3

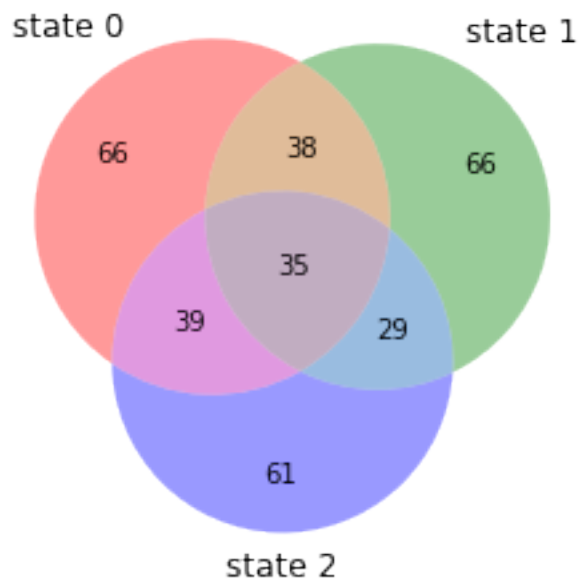


intersected genes of three states:

```
['Sult2a2', 'Mup9', 'Cyp2c37', 'Slc27a5', 'Prdx4', 'Saa3', 'Tmem126a', 'Dgat2',
'Tgoln1', 'Gjb1', 'Tuba1c', 'Tmem59', 'Copa', 'Acadsb', 'Neat1', 'Creg1',
'Nme2', 'Cyp4f14', 'Gstp3', 'Cyp4a14', 'Aprt', 'Gm4788', 'F13b', 'Cd164',
'Ly6d', 'Lifr', 'Gadd45g', 'Cers2', 'Raph1', 'Srp19', 'Tmem243', 'Serpina6',
'H6pd', 'Pdia6', 'Defb1', 'Stmn1', 'Lypla1']
```

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Atf2

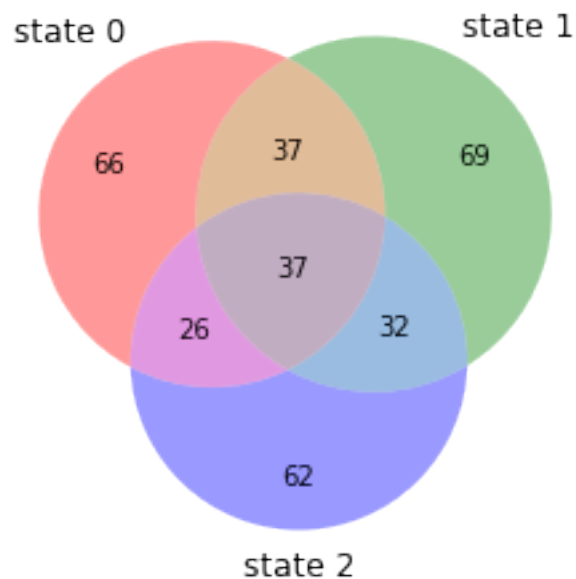


intersected genes of three states:

['C6', 'Ddx3y', 'Sult2a2', 'Mup9', 'Lrp1', 'Me1', 'Cyp2c37', 'Surf4', 'Abhd2',  
 'Mup14', 'Cyp4a12a', 'Dnajc3', 'AW112010', 'Gm2a', 'Tgoln1', 'Gjb1', 'Tuba1c',  
 'Atp6v0e', 'F5', 'Atp11c', 'Nme2', 'Cyp4a14', 'Cfhr1', 'Tmprss6', 'Ldhd',  
 'Ptprf', 'Ly6d', 'Psap', 'Akr1c19', 'Gadd45g', 'Serpina6', 'Serinc3', 'Btg1',  
 'Sdc1', 'Ddi2']

-----

Nfe2l2

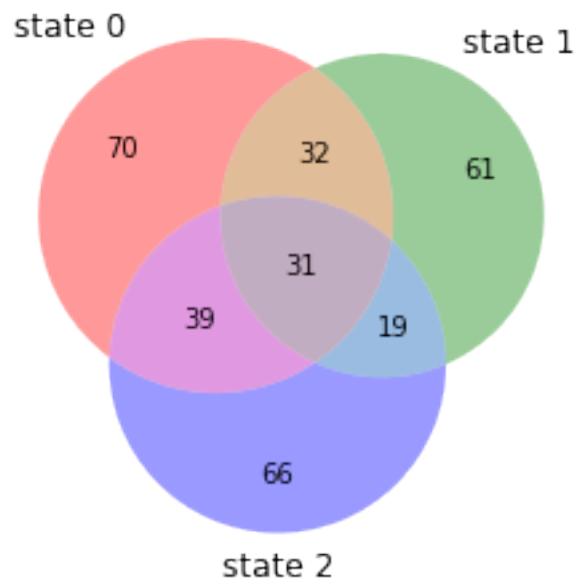


intersected genes of three states:

['C6', 'Sult2a2', 'Cyp2c23', 'Ube2r2', 'Sult2a6', 'Slc27a5', 'Saa3', 'Iil1rap',  
 'Slc39a14', 'Fads1', 'Tgoln1', 'Mia3', 'Ces3b', 'Mettl7a1', 'Atp6v0e', 'Acadsb',  
 'Neat1', 'Tob1', 'Cfhr1', 'G6pc', 'Grn', 'Aars', 'Apol9a', 'Serinc1', 'Cmah',  
 'Ugt2b35', 'Tmem14c', 'Gadd45g', 'Crip2', 'Msmo1', 'Slc25a4', 'Cyp4v3', 'Cyp51',  
 'Serpina3m', 'Serinc3', 'Rnf149', 'Defb1']

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Ssrp1

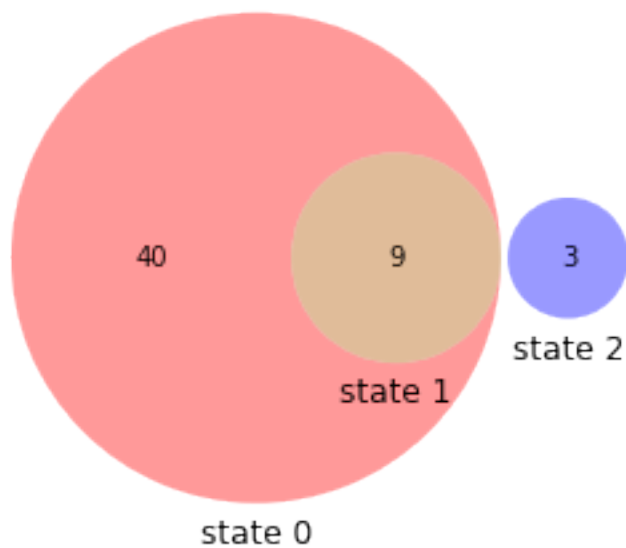


intersected genes of three states:

```
['Sult2a2', 'Abcc2', 'Tmem30a', 'Cyp1a2', 'Snrpd2', 'Prdx4', 'Cib1', 'Mup14',
'Cyp4a12a', 'Pdia3', 'Rpn1', 'Lpgat1', 'Gm2a', 'Tgoln1', 'Mia3', 'Ces3b',
'Tuba1b', 'Acadsb', 'Elov13', 'Pnpo', 'Grn', 'Ly6d', 'Serinc1', 'Akr1c19',
'Msmo1', 'Chpt1', 'Cyp51', 'Serinc3', 'Ddi2', 'Stmn1', 'Tmem19']
```

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Nr1h3

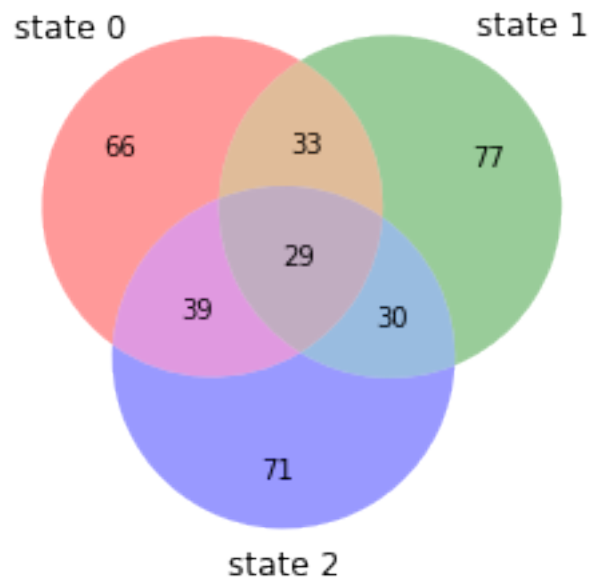


intersected genes of three states:

[]

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Mga

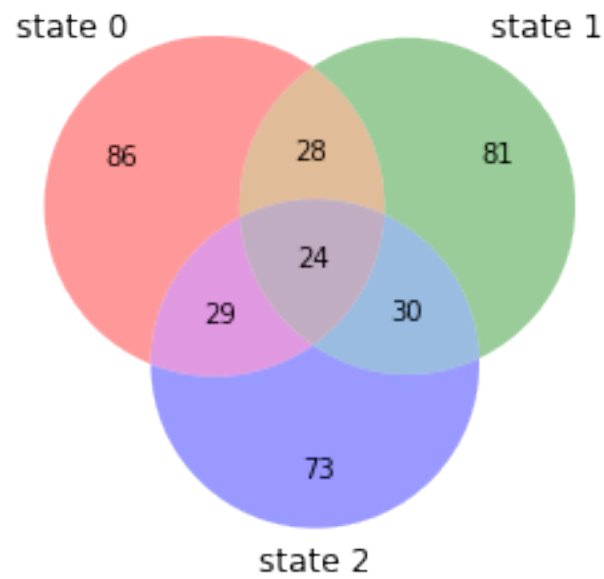


intersected genes of three states:

['C6', 'Acs14', 'Lipa', 'Sult2a2', 'Aqp9', 'Nlrp12', 'Gys2', 'Il1rap', 'Gulo',  
'Mia3', 'Ces3b', 'Slc22a30', 'Coq8a', 'Gk', 'Fkbp11', 'Srsf3', 'Mttp', 'Bri3',  
'Cyp2d10', 'Ptprf', 'Ly6d', 'Cxcl1', 'Cmah', 'Spp2', 'Cdc34', 'Insig1',  
'Iqgap2', 'H6pd', 'Rnf149']

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Foxa2

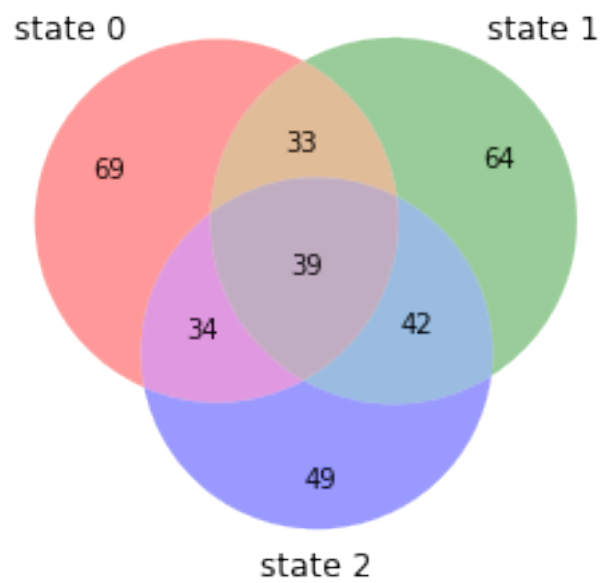


intersected genes of three states:

```
['Ssr1', 'Mup9', 'Hamp2', 'Me1', 'Rad23b', 'Mup12', 'Cyp4a12a', 'Hba-a2',
'Nat8f1', 'Gm2a', 'Tgoln1', 'Aldh9a1', 'Nme2', 'Cyp4a14', 'Apol9a', 'Ddx3x',
'Afp', 'S100a9', 'Steap4', 'Iqgap2', 'H6pd', 'Defb1', 'Rpn2', 'Ddi2']
```

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Gzfl

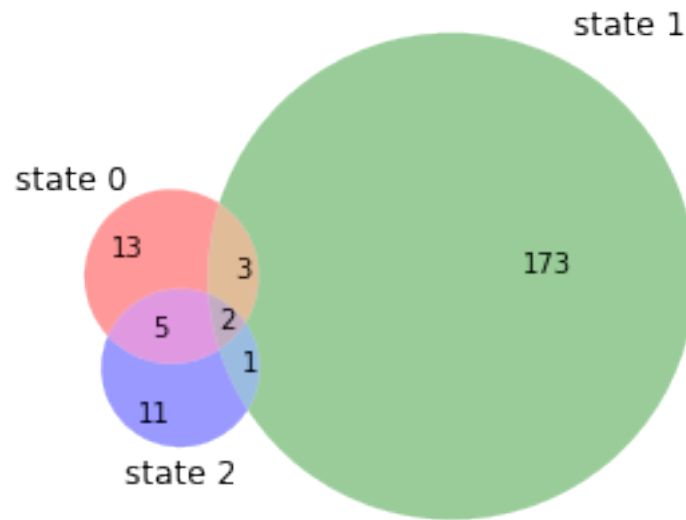


intersected genes of three states:

```
['C6', 'Sult2a2', 'Ube2r2', 'Psmc4', 'Hamp2', 'Me1', 'Cyp2c37', '1300017J02Rik',  
'Prdx4', 'Nlrp12', 'Gys2', 'Kng2', 'Mup12', 'Mup21', 'Cyp4a12a', 'Pdia3',  
'Hba-a1', 'Hbb-bt', 'Mia3', 'Ces3b', 'Copa', 'F5', 'Elov13', 'Grn', 'Tmprss6',  
'Atp2a2', 'Lman1', 'Fech', 'Akr1c19', 'Hsd17b13', 'Afp', 'Ugdh', 'Gadd45g',  
'Serpina12', 'Serinc3', 'H6pd', 'Rapgef4', 'Laptn4a', 'Proz']
```

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Id1

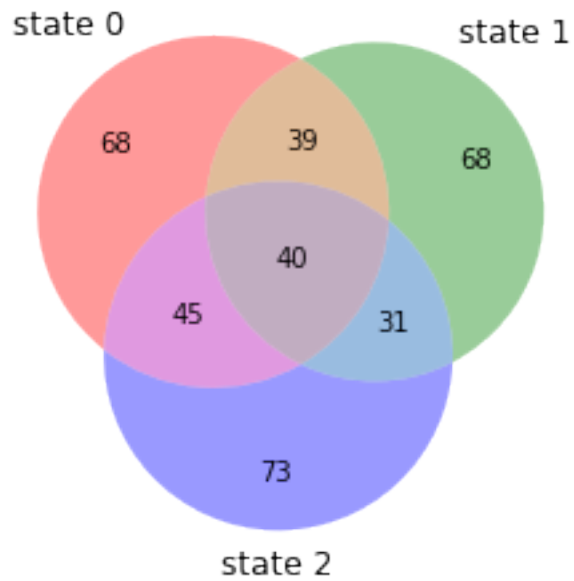


intersected genes of three states:

```
['Tob1', 'Ywhaz']
```

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E2f1

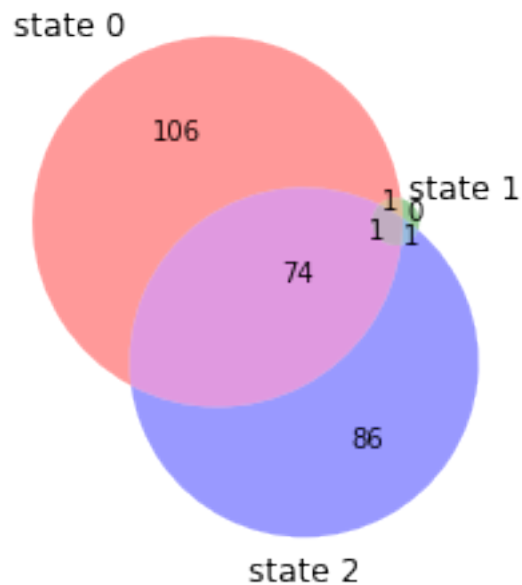


intersected genes of three states:

```
['Ssr1', 'Lipa', 'Acss2', 'Ube2r2', 'Sult2a6', 'Acad11', 'Saa3', 'Mup14',
'Hba-a1', 'Litaf', 'Abat', 'Tgoln1', 'Ces3b', 'Slc35d1', 'C8b', 'Bola2',
'Tmem59', 'Acadsb', 'Zcrb1', 'Vmp1', 'Nme2', 'Cyp4a14', 'Tfr2', 'F13b',
'1810037I17Rik', 'Ly6d', 'Mtss1', 'Fasn', 'Ywhaz', 'Cxcl1', 'Gadd45g', 'Mrps21',
'Txnrd1', 'Srp19', 'Ssu72', 'Serpina6', 'Ragef4', 'Lpin1', 'Pdia6', 'Tmem19']
```

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Mafb



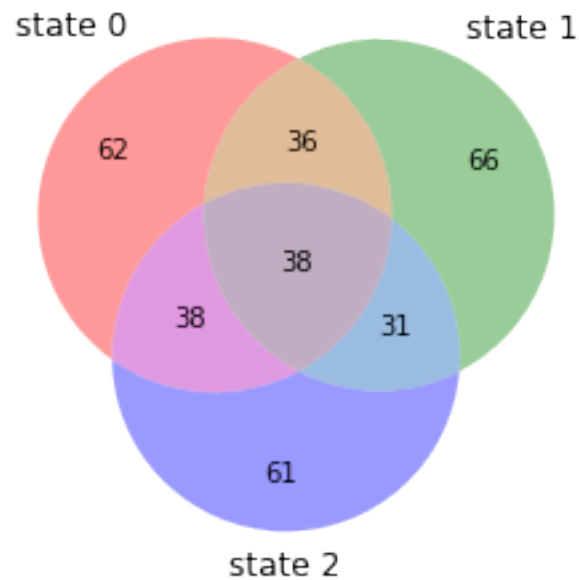


intersected genes of three states:

['Pbld1']

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Zhx3

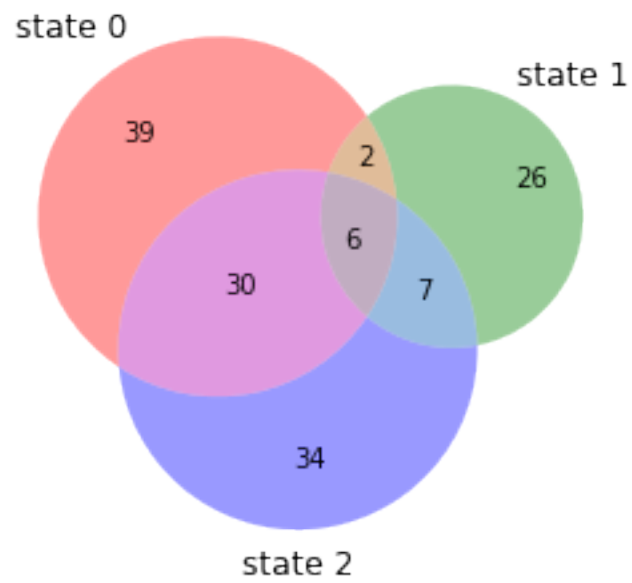


intersected genes of three states:

['C6', 'Larp4b', 'Abcc2', 'Polr2i', 'Aco1', 'Hamp2', 'Pnrc1', 'Slc2a2', 'Abhd2', 'Anxa5', 'Hba-a2', 'Timm10b', '1110008P14Rik', 'Gm2a', 'Slc16a2', 'Sppl2a', 'Acadsb', 'Adh4', 'Atp11c', 'Cyp4a14', 'Elov13', 'Cyp2d10', 'Cdkn1c', 'Cpt1a', 'Ldhd', 'Ly6d', 'Serinc1', 'Psap', 'Cmah', 'Ugt2b35', 'Gadd45g', 'Cst3', 'Atpif1', 'Myl12b', 'Lpin2', 'Tmem19', 'Prkd3', 'Abcb11']

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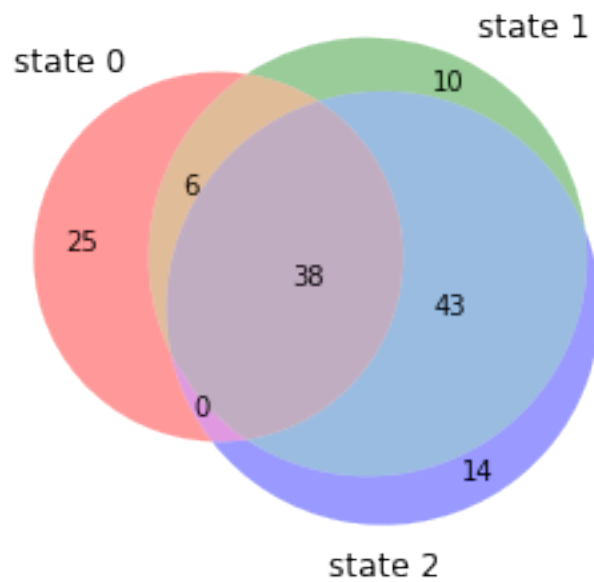
Hnf4a



intersected genes of three states:  
 ['Eif4g1', 'Cib1', 'Ube2b', 'Tob1', 'Klkb1', 'Hsd3b5']

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Cebpb

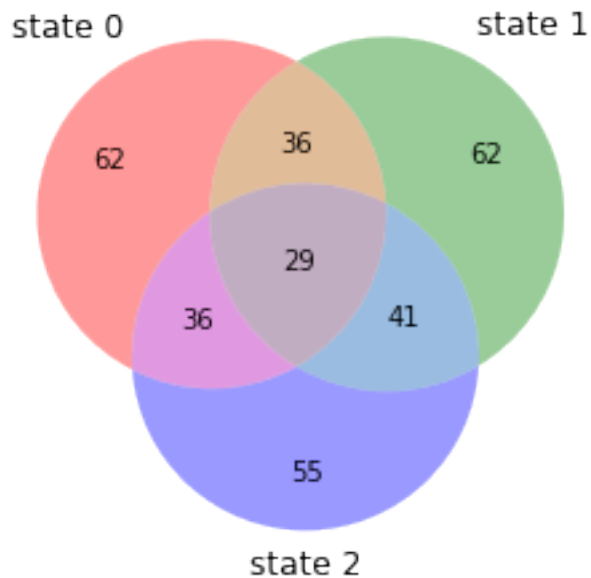


intersected genes of three states:  
 ['2200002D01Rik', '1810022K09Rik', 'Cox17', 'Manf', 'Cbr1', 'Surf4', 'Cpn2',

'Mup18', 'Mup21', 'Slc22a30', 'Coq8a', 'C8b', 'Tmem176a', 'Dhcr24', 'Atp6v0e',  
 'Tmem59', 'Akr1d1', 'Acadsb', 'Cdk2ap2', 'Cd81', 'Cdkn1c', 'Acly', 'Krtcap2',  
 'Ube2l6', 'Atp2a2', 'Ddx3x', 'Sds', 'Actg1', 'Man1a', 'Acads', 'Rrbp1',  
 'Ugt2b35', 'Gadd45gip1', 'Srp19', 'Iqgap2', 'Man2a1', 'Agmat', 'Snrpd1']

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Tfe3

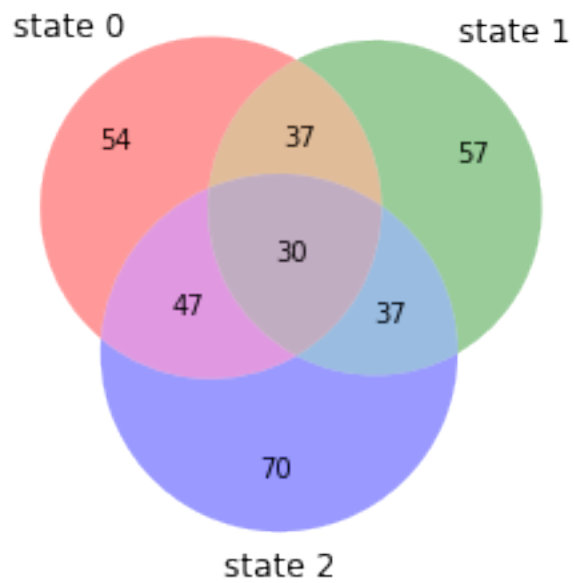


intersected genes of three states:

['C6', 'Acsl4', 'Sult2a2', 'Mup9', 'Hamp2', 'Me1', 'Pnrc1', 'Saa3', 'Clec2d',  
 'Mup14', 'Mup18', 'Ogdh', '1110008P14Rik', 'Mia3', 'Vmp1', 'Atp11c', 'Gstp3',  
 'Pnpo', 'Cpt1a', 'Gm4788', 'Mtss1', 'Tmed5', 'Mut', 'Ugt2b35', 'Gstm2',  
 'Serinc3', 'Defb1', 'Ddi2', 'Snrpd1']

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Zbtb33

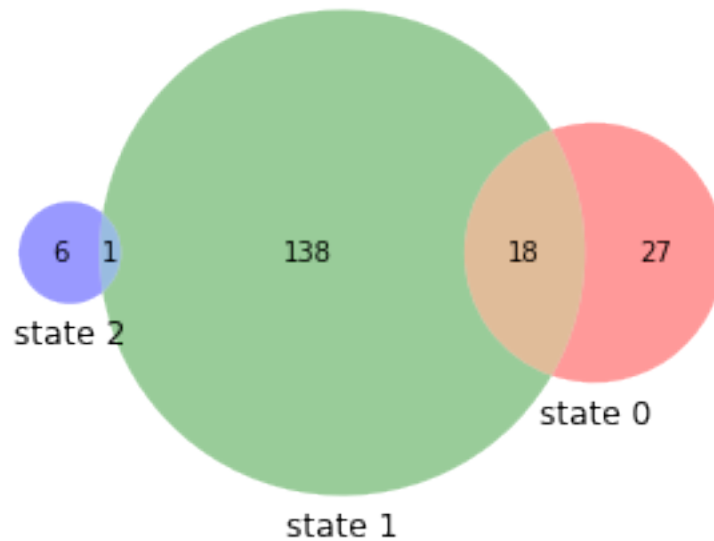


intersected genes of three states:

```
['Ssr1', 'Smlr1', 'Sult2a2', 'Abcc2', '1810022K09Rik', 'Aqp9', 'Cyp1a2',
'Cyp4a12a', 'C1s1', 'Rpn1', 'Gulo', 'Mia3', 'Ces3b', 'Hsd17b12', 'Neat1',
'Nsdhl', 'Tfr2', 'Grn', 'Aars', 'Man1a', 'Fech', 'Tmed5', 'Mut', 'Afp',
'Col18a1', 'Prtn3', 'Slc25a4', 'Sdc1', 'Defb1', 'Tmem19']
```

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Nono

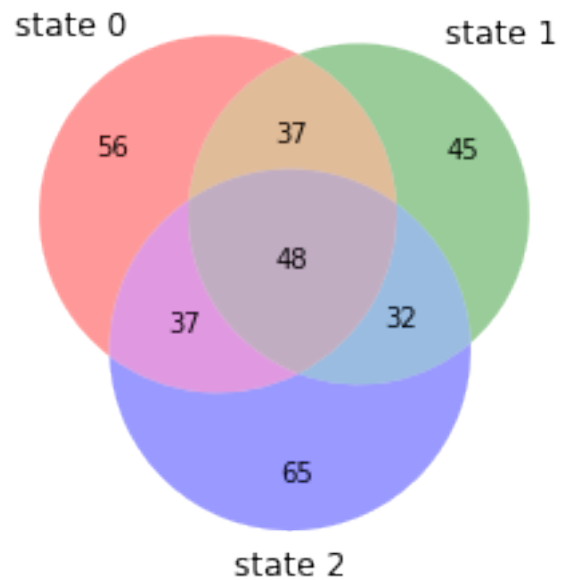


intersected genes of three states:

[]

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Atrx

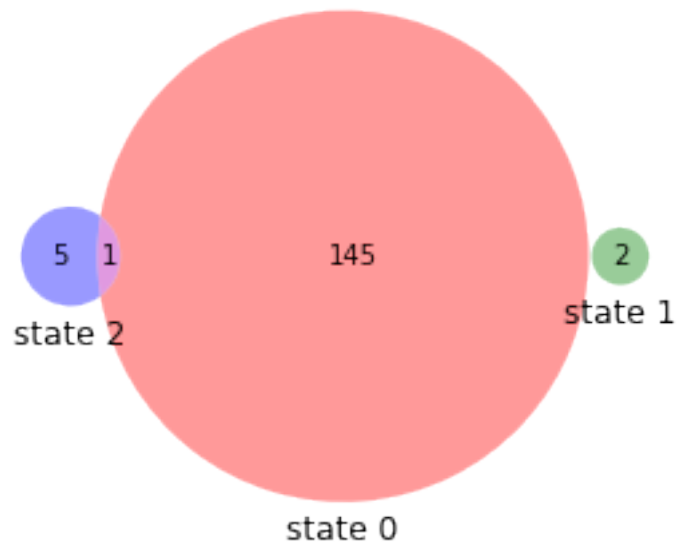


intersected genes of three states:

```
['Zbtb8os', 'Acsl4', 'Mup9', 'Me1', 'Cyp1a2', 'Pnrc1', 'Cyp2c37', 'Cyp2c67',  
'Pdcd4', '1300017J02Rik', 'Sult2a6', 'Il1rap', 'Mup18', 'Mup21', 'Ranbp1',  
'Hba-a2', 'Litaf', 'Hbb-bt', 'Rpn1', 'Gm2a', 'Gulo', 'Slc16a2', 'Mia3', 'Ces3b',  
'Sppl2a', 'Hsd17b12', 'Neat1', 'Mttp', 'Psmc11', 'Nsdhl', 'Vmp1', 'F5', 'Nme2',  
'Cyp4a14', 'Cpt1a', 'Tfr2', 'Grn', 'Aars', 'Serinc1', 'Mut', 'Afp', 'Txnrd1',  
'Rnf149', 'Btg1', 'Defb1', 'Hsd3b5', 'Snrpd1', 'Lypla1']
```

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Tsc22d3

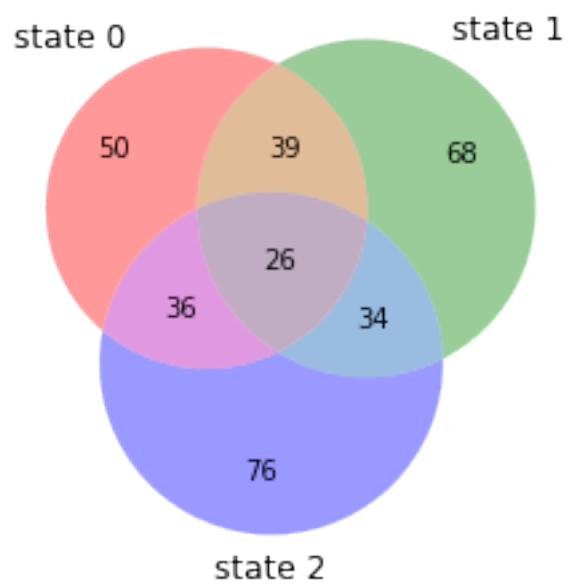


intersected genes of three states:

[]

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Foxo1



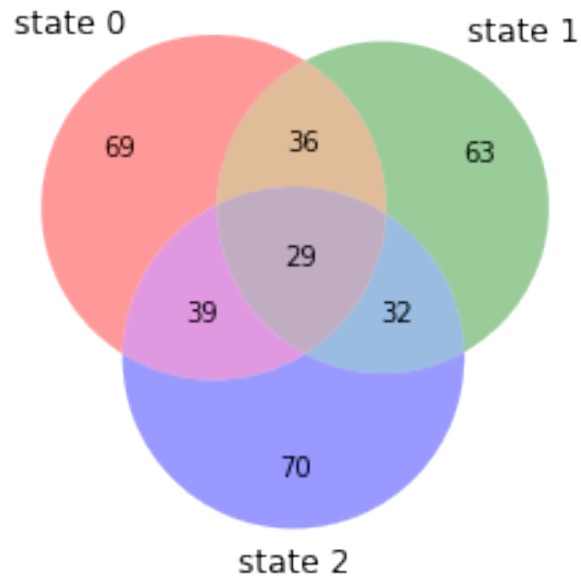
intersected genes of three states:

['Sult2a2', 'Mup9', 'Lrp1', 'Hamp2', 'Cyp2c67', '1300017J02Rik', 'Abhd2',

'Mup14', 'Hsd11b1', 'Mia3', 'Atp6v0e', 'Fkbp11', 'Neat1', 'Mttp', 'Cyp4a14',  
'Elovl3', 'G6pc', 'Xiap', 'Ldhd', 'Apol9a', 'Mut', 'Ugt2b35', 'Gadd45g',  
'Serpina6', 'Snrpd1', 'Zfp3611']

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Rfxap

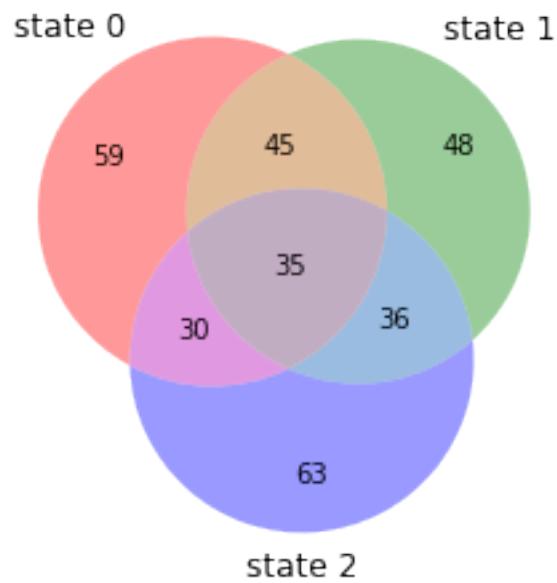


intersected genes of three states:

['Larp4b', 'Sult2a2', 'Acss2', 'Lrp1', '2200002D01Rik', 'Prodh2', 'Hamp2',  
'Pdcd4', 'Sult2a6', 'Saa3', 'Ogdh', 'Hba-a1', 'Abat', 'Slc39a14', 'Adh4',  
'Cyp4f14', 'Cdkn1c', 'Ldhd', 'Ptprf', 'Atp2a2', 'Ddx3x', 'Ly6d', 'Deptor',  
'F12', 'Serpina6', 'Btg1', 'Defb1', 'Hsd3b5', 'Apon']

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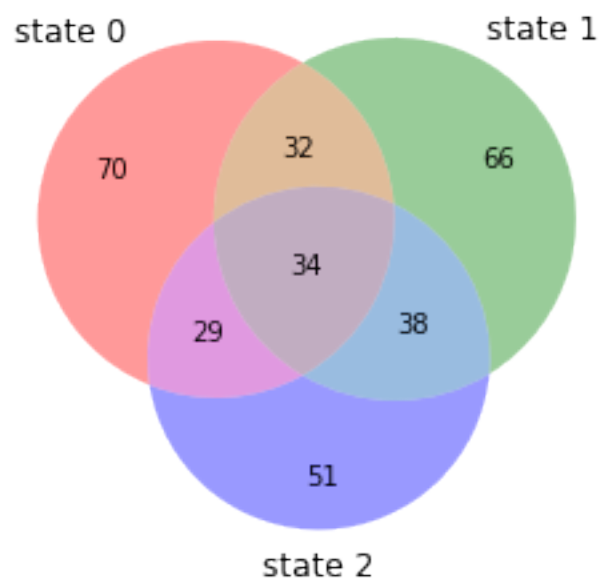
Tsc22d2



intersected genes of three states:

```
['Ddx3y', 'Ssr1', 'Sult2a2', 'Mup9', 'Cyp2c37', 'Sult2a6', 'Acad11', 'Cbr1',
'Prdx4', 'Cpn2', 'Il1rap', 'Cyp4a12a', 'Commd3', 'Selenot', 'Abat', 'Slc16a2',
'Mia3', 'Sppl2a', 'Cdk2ap2', 'Cdkn1c', 'Cpt1a', 'Aars', 'Apol9b', 'Etnk2',
'Ly6d', 'Rrbp1', 'Gadd45g', 'Raph1', 'Slc25a4', 'Srp19', 'Myo1b', 'Serpina6',
'Rapgef4', 'Hsd3b5', 'Lactb2']
```

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Zbtb7b



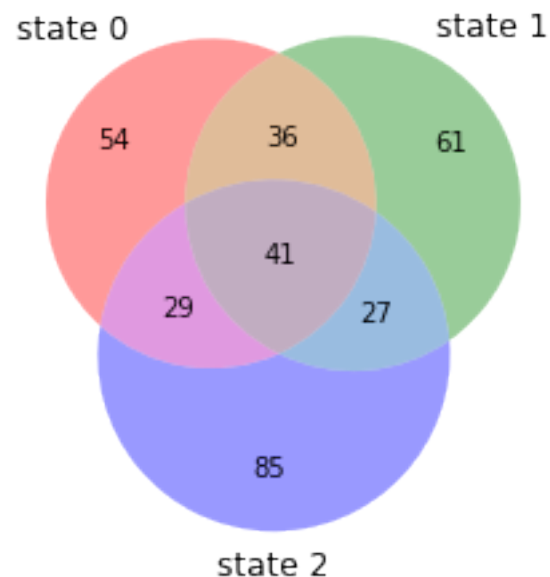


intersected genes of three states:

```
['Lipa', 'Sult2a2', 'Lrp1', 'Hamp2', '1300017J02Rik', 'Saa3', 'Gys2', 'Ufm1',
'Hba-a2', 'Gm4952', 'Litaf', '1110008P14Rik', 'Tmem258', 'Gm2a', 'Slc35d1',
'Gk', 'Tuba1c', 'Copa', 'Nsdh1', 'Cyp4f14', 'Cyp4a14', 'Cdkn1c', 'F13b', 'Grn',
'Apol9b', 'Ptprf', 'Cmah', 'Ugt2b35', 'S100a9', 'F12', 'Raph1', 'Btg1', 'Defb1',
'Snrpd1']
```

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Gatad2b

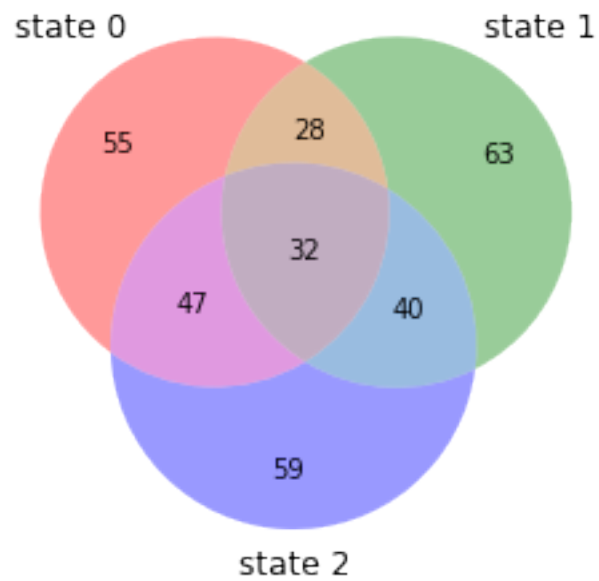


intersected genes of three states:

```
['Zbtb8os', 'Acsl4', 'Larp4b', 'Fam96a', 'Prodh2', 'Cyp2a12', 'Hamp2', 'Cyp1a2',
'Ube2s', 'Saa3', 'Il1rap', 'Clec2d', 'Mup14', 'Cyp4a12a', 'Hba-a2', 'Slc22a30',
'Slc35d1', 'Tuba1b', 'Hsd17b12', 'Acadsb', 'Neat1', 'Atp11c', 'Gstp3', 'Por',
'Ptprf', 'Lman1', 'Ly6d', 'Man1a', 'Fasn', 'Psap', 'Slc17a2', 'Cmah', 'Afp',
'Ugt2b35', 'S100a9', 'Lifr', 'Msmo1', 'Slc25a4', 'Defb1', 'Rpn2', 'Hao2']
```

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Nfx1

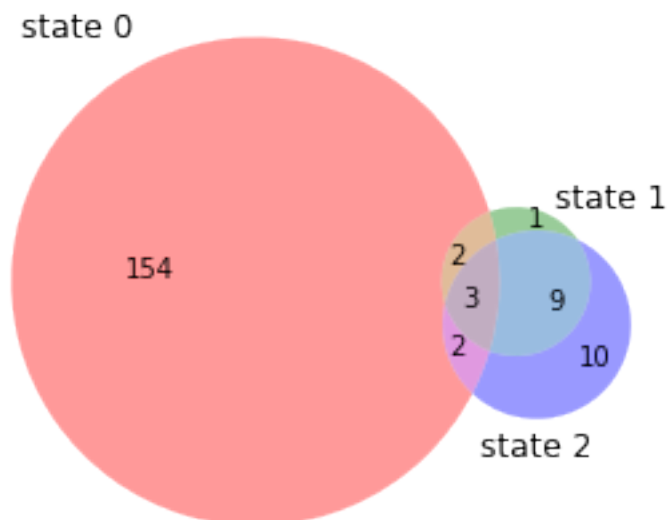


intersected genes of three states:

```
['C6', 'Ddx3y', 'Acss2', 'Hamp2', 'Me1', 'Anp32a', 'Sult2a6', 'Alas2', 'Abhd2',
'Eif4g1', 'Selenot', 'Hba-a2', 'Gm4952', 'Rpn1', 'Mia3', 'Slc35d1', 'Mettl7a1',
'Nsdhl', 'Cyp4a14', 'Cdkn1c', 'F13b', 'Ddx3x', 'Fasn', 'Deptor', 'Slc17a2',
'Afp', 'Raph1', 'Txnrd1', 'Serpina12', 'Snrpf', 'Hsd3b5', 'Hao2']
```

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Nfib

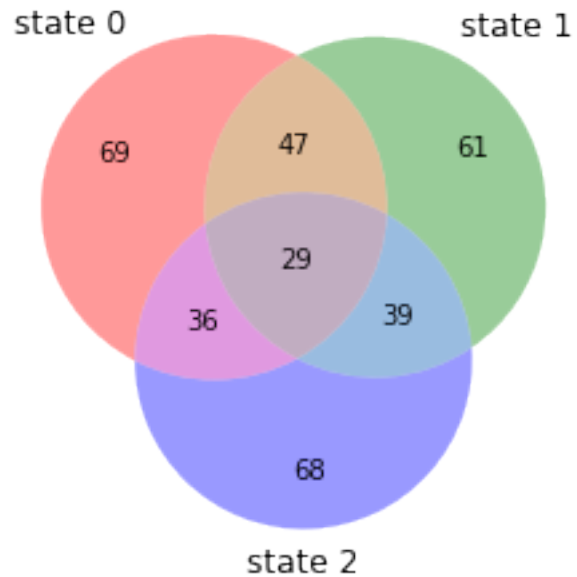


intersected genes of three states:

['1810008I18Rik', 'Hypk', 'Ctsb']

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Jun

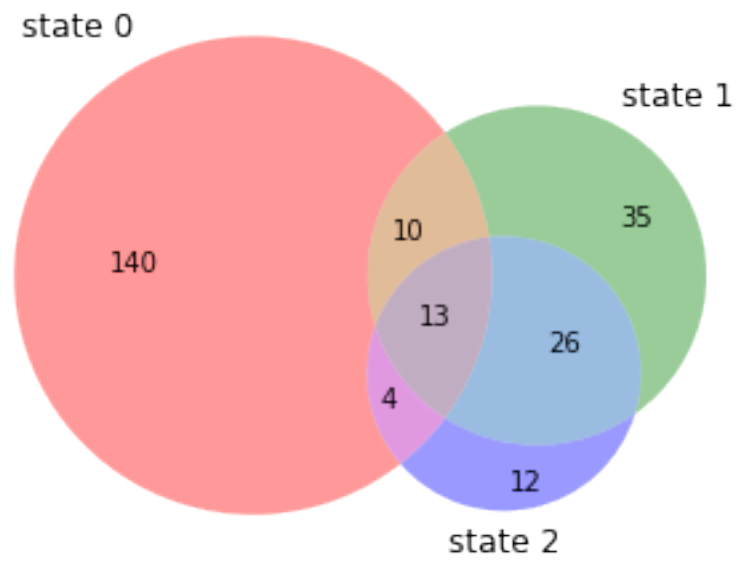


intersected genes of three states:

['C6', '2200002D01Rik', 'Tmem30a', 'Cyp2c37', 'Slc27a5', 'Cyp4a12a', 'Pdia3',  
'Hypk', 'Tgoln1', 'Ctsb', 'Slc22a30', 'Atp6v0e', 'Adh4', 'Pcx', 'Cyp4f14',  
'Cyp4a14', 'Cpt1a', 'Tfr2', 'Tmprss6', 'Pcyt2', 'Hsd17b13', 'Sdc2', 'Gadd45g',  
'Crip2', 'H6pd', 'Lpin2', 'Pdia6', 'Stmn1', 'Snrpd1']

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Nfia

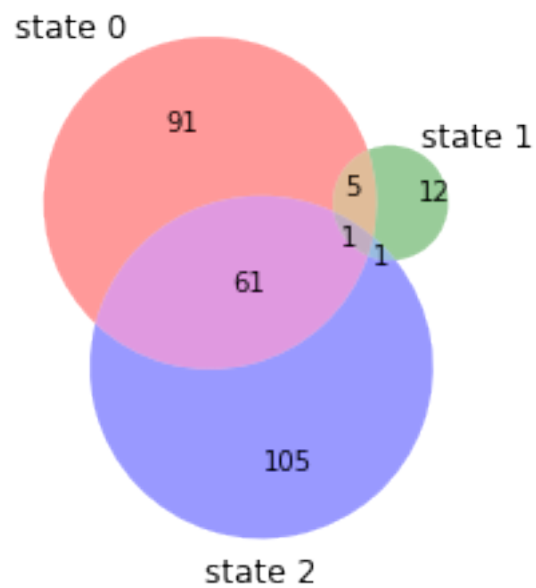


intersected genes of three states:

['Ddx3y', 'Lipa', 'Sult2a2', 'Pnrc1', 'Nlrp12', 'Aplp2', 'Hba-a2', 'Ube2b',  
'Srsf3', 'Pcyt2', 'Gadd45g', 'Atpif1', 'Myl12b']

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Mier1



intersected genes of three states:

['Cyp2c67']

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Ybx1

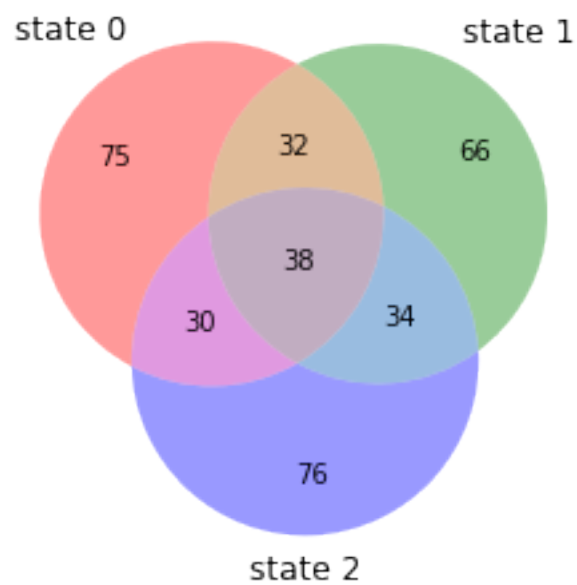


intersected genes of three states:

['Zbtb8os', 'Acss2', 'Clpx', 'Hamp2', 'Saa3', 'Ogdh', 'Selenot', 'Nat8f1',  
'1110008P14Rik', 'Serpinf2', 'Cltc', 'Fabp2', 'Pmvk', 'S100a9', 'Selenbp2']

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Rlf

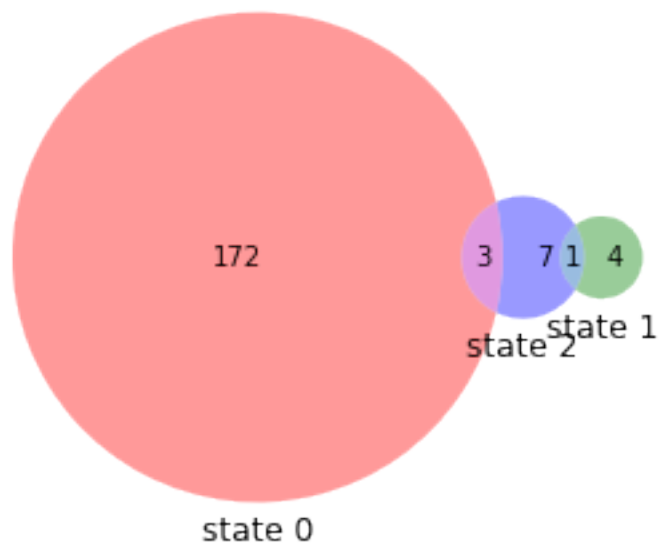


intersected genes of three states:

```
['C6', 'Larp4b', 'Acss2', 'Lrp1', 'Fam96a', 'Pnrc1', '1300017J02Rik', 'Sult2a6',  
'Ube2s', 'Saa3', 'Mup18', 'Cyp4a12a', 'Rpn1', 'Abat', 'Nat8f1', 'Slc16a2',  
'Mia3', 'Gjb1', 'Tmem176a', 'Kmo', 'Cltc', 'Cyp4a14', 'Grn', 'Tmprss6',  
'Apol9b', 'Lman1', 'Mut', 'Ugt2b35', 'Col18a1', 'Ndufs7', 'Cst3', 'Raph1',  
'Slc25a4', 'Atpif1', 'Myo1b', 'Rnf149', 'Defb1', 'Abcb11']
```

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Sfpq

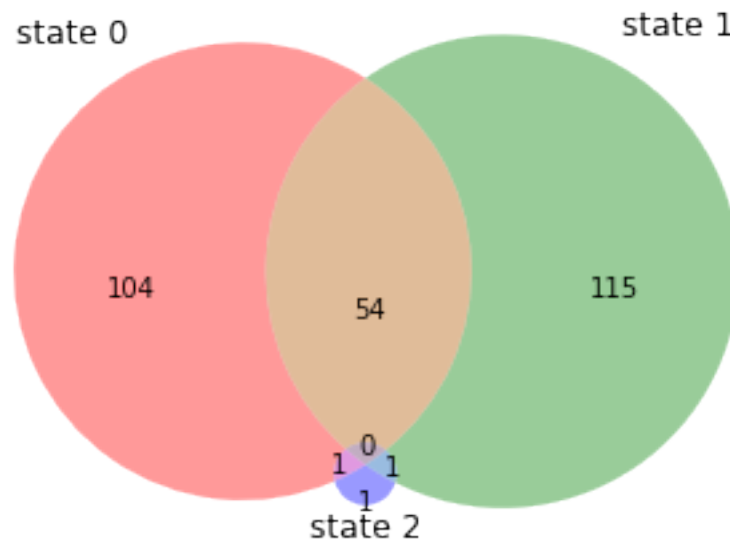


intersected genes of three states:

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Nr0b2

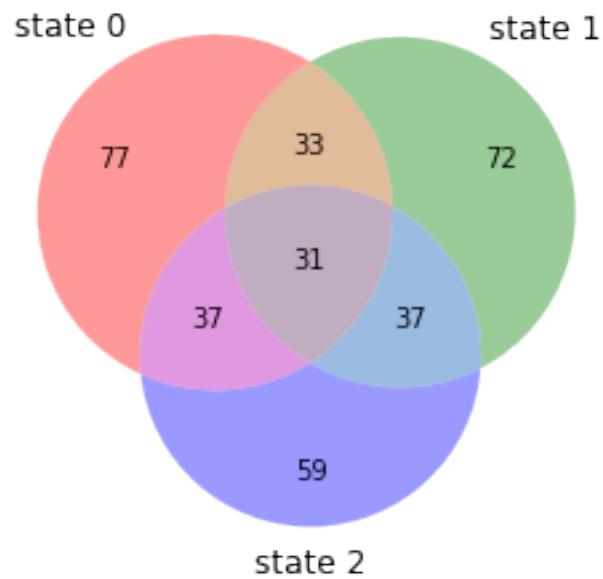


intersected genes of three states:

[]

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Arid1a



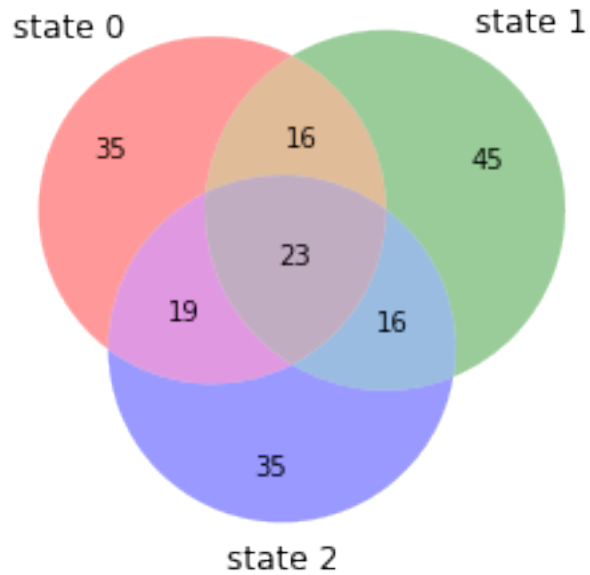
intersected genes of three states:

['Larp4b', 'Acss2', 'Cyp2c23', 'Tm9sf3', '1300017J02Rik', 'Rad23b', 'Cib1',

'Hba-a1', 'AW112010', 'Fads1', 'Slc16a2', 'Mia3', 'Slc22a30', 'Vmp1', 'Cyp2d10',  
 'Ccnd1', 'Ly6d', 'Serinc1', 'Akr1c19', 'Ugt2b35', 'S100a9', 'Prtn3', 'F12',  
 'Msmo1', 'Slc25a4', 'Cyp4v3', 'Serpina6', 'Lpin1', 'Rpn2', 'Hsd3b5', 'Lactb2']

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Id3



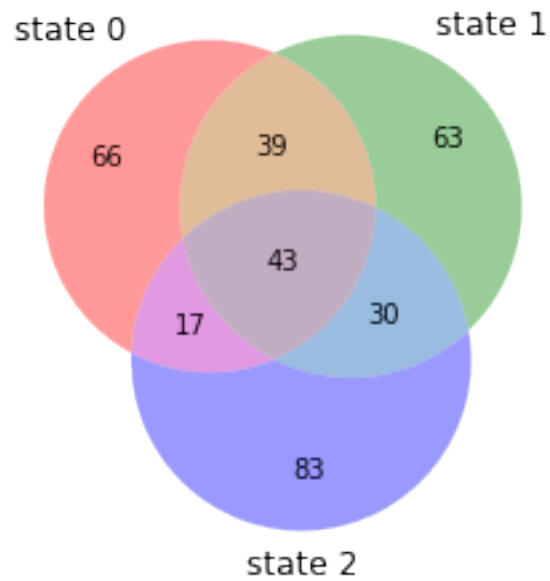
intersected genes of three states:

['Ssr1', 'Clpx', 'Nlrp12', 'Hrg', 'Tubb4b', 'Mup1', 'Hba-a2', 'Nat8f1',  
 'Slc16a2', 'Pnp', 'Srsf3', 'Cyp3a25', 'Grn', 'Apol9a', 'Apom', 'Pigr', 'Pcyt2',  
 'Tubb5', 'S100a9', 'Mrpl34', 'Cers2', 'Rnf149', 'Lpin2']

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Rere



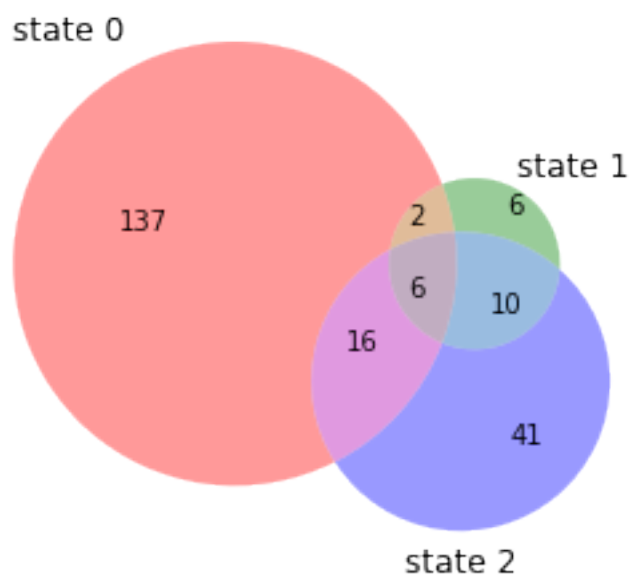


intersected genes of three states:

```
['Suc1g2', 'C6', 'Acs14', 'Fam96a', 'Cyp2c23', 'Cyp2a12', 'Hamp2', 'Me1',
'Cyp2c37', '1300017J02Rik', 'Rdx', 'Prdx4', 'Slc2a2', 'Cpn2', 'Mup14', 'Mup18',
'Pdia3', 'Hba-a2', 'Hbb-bt', 'Nhp2', 'Tgoln1', 'Mia3', 'Slc22a30', 'Tuba1b',
'Fkbp11', 'Cyp4a14', 'F13b', 'Xiap', 'Ube2l6', 'Mtss1', 'Hsd17b13', 'Slc17a2',
'Spp2', 'Ugt3a2', 'Gstm2', 'Slc25a4', 'Cyp51', 'Serinc3', 'Sdc1', 'Defb1',
'Stmn1', 'Tmem19', 'Hsd3b5']
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Gatad1

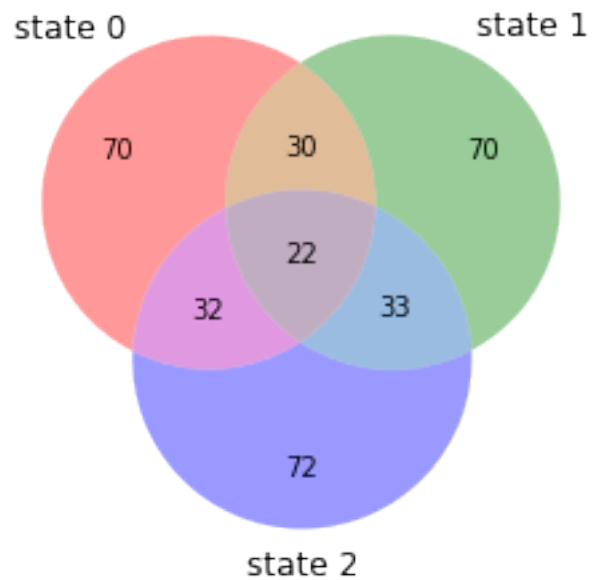


intersected genes of three states:

['Eny2', 'Serpind1', 'Mtss1', 'Sdc2', 'Slc25a15', 'Lpin1']

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Dnajc2

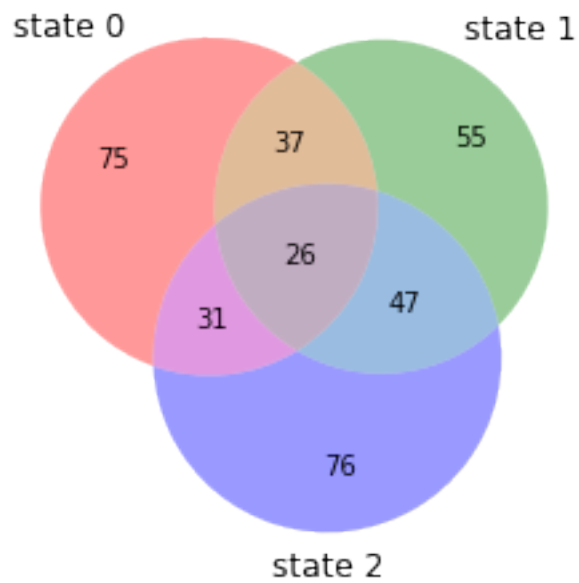


intersected genes of three states:

['Larp4b', 'Sult2a2', 'Lrp1', 'Gcll', 'Cyp2c70', 'Pten', 'Alas2', 'Gabarapl1', 'Abhd2', 'Cyp4a12a', 'Hba-a2', 'Tuba1c', 'Cyp4a14', 'Cdkn1c', 'Cpt1a', 'Ly6d', 'Cmah', 'Gadd45g', 'Cst3', 'Gstm2', 'Ddi2', 'Hsd3b5']

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Mxd4

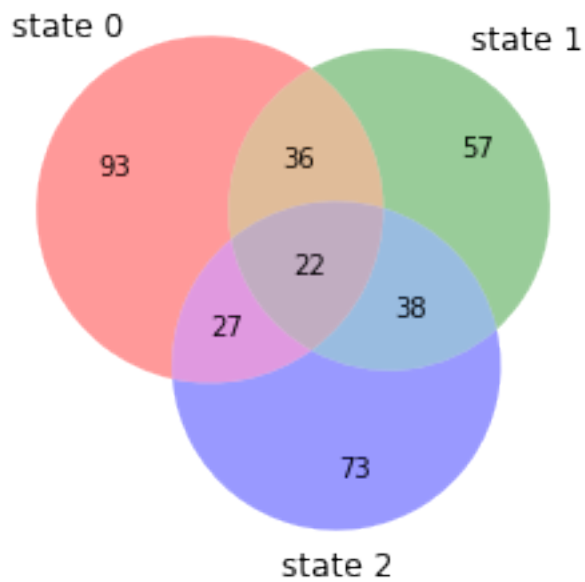


intersected genes of three states:

```
['Aqp9', 'Sult2a6', 'Manf', 'Oaf', 'Ufm1', 'Litaf', 'Rpn1', 'Abat', 'Gm2a',
'Slc16a2', 'Atp6v0e', 'Acadsb', 'Neat1', 'Cyp2d9', 'Aars', 'Apol9a', 'Ugt2b35',
'S100a9', 'Ugt3a2', 'Cst3', 'Serinc3', 'Rpn2', 'Prkd3', 'Hsd3b5', 'Camk2n1',
'Zfp3611']
```

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Lyar

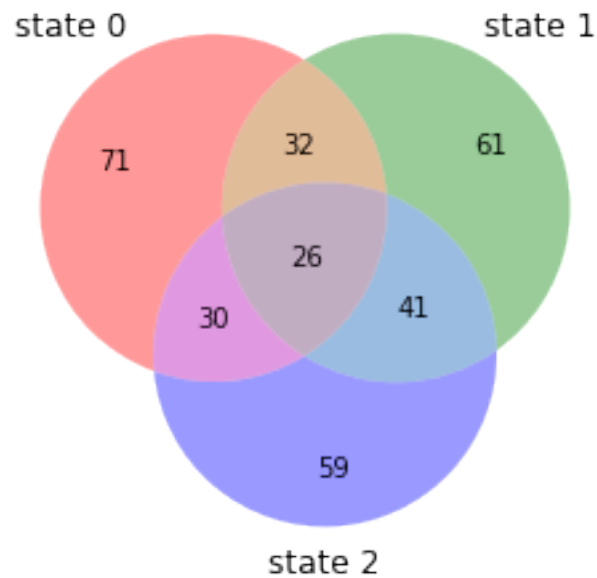


intersected genes of three states:

```
['Fam32a', 'Sult2a2', 'Tm9sf3', 'Cyp2c37', 'Mup18', 'Pdia3', 'Gulo', 'Tgoln1',  
'Mia3', 'Mttp', 'Cyp4a14', 'F13b', 'Etnk2', 'Ptrpf', 'Serinc1', 'Psap', 'Afp',  
'Ugt2b35', 'Ugt3a2', 'Msmo1', 'Srp19', 'Cyp51']
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Klf3

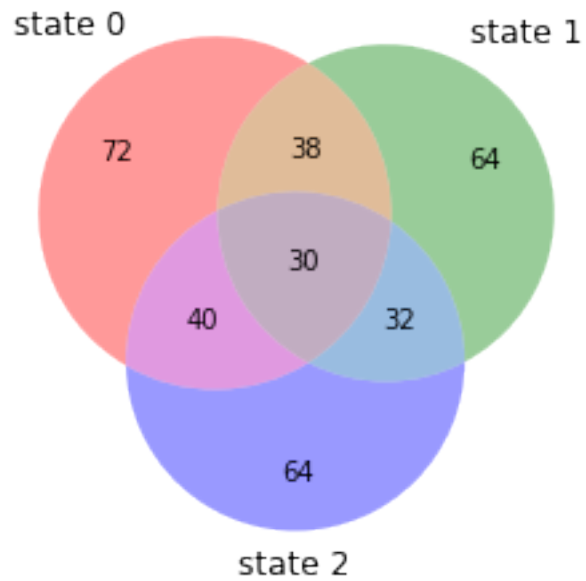


intersected genes of three states:

```
['C6', 'Zbtb8os', 'Mup9', 'Snrpd2', 'Cyp2c37', 'Kng2', 'Clec2d', 'Mup14',  
'Cyp4a12a', 'AW112010', 'Tgoln1', 'Tuba1b', 'Atp6v0e', 'Zcrb1', 'Gstp3', 'Xiap',  
'Ldhd', 'Cd164', 'Lman1', 'Man1a', 'S100a9', 'Cers2', 'Btg1', 'Defb1', 'Stmn1',  
'Hsd3b5']
```

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Clock

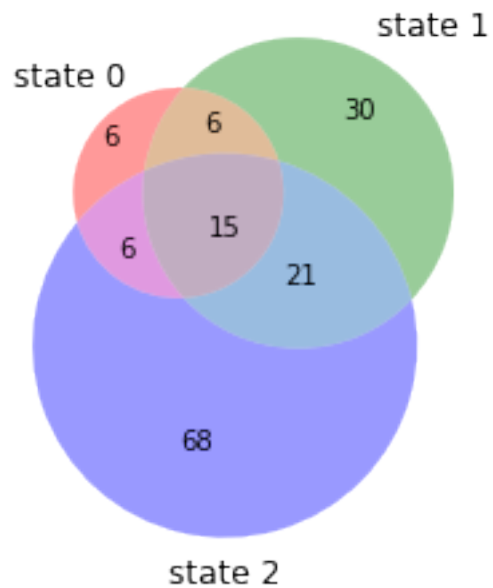


intersected genes of three states:

```
['Sult2a2', '2200002D01Rik', 'Acad11', 'Surf4', 'Saa3', 'Pdia3', 'Nhp2', 'Gm2a',
'Mia3', 'Ctsb', 'Gfer', 'Slc22a30', 'Tuba1b', 'Itih1', 'Nsdhl', 'Vmp1', 'Gstp3',
'Cyp4a14', 'Cyp2d10', 'Grn', 'Ddx3x', 'Man1a', 'Akr1c19', 'Ugt3a2', 'Ssu72',
'Serinc3', 'Btg1', 'Pdia6', 'Defb1', 'Ahcy']
```

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Hopx

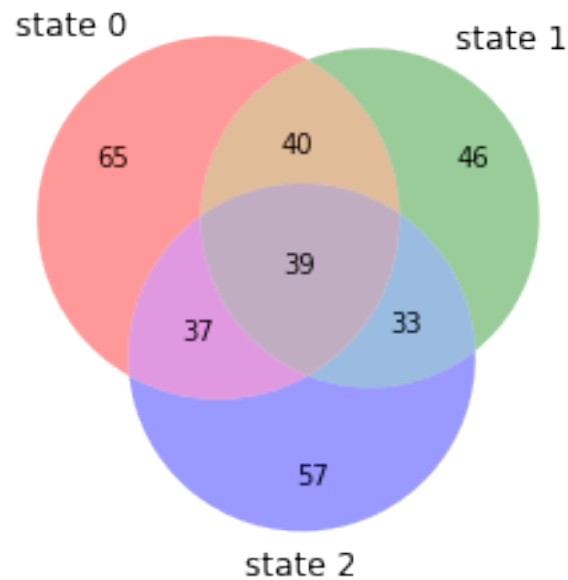


intersected genes of three states:

```
['Cyp1a2', 'Cp', 'Slc27a5', 'Bnip3l', 'Cela1', 'Hsd17b12', 'Ier3ip1', 'Cfi',  
'Serp1ng1', 'Psm4', 'Mrps21', 'Pah', 'Gsr', 'Mrpl42', 'Psm6']
```

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Rest

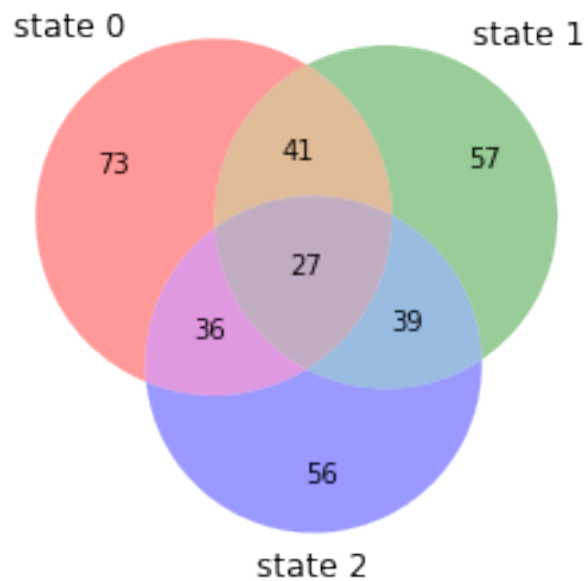


intersected genes of three states:

```
['C6', 'Sult2a2', 'Mup9', 'Cyp1a2', 'Cyp2c37', 'Cyp2c67', 'Sult2a6', 'Saa3',  
'Clec2d', 'Dnajc3', 'Rpn1', 'Slc39a14', 'Gjb1', 'Copa', 'Acadsb', 'Neat1',  
'Pipox', 'Creg1', 'Nsdhl', 'Vmp1', 'Atp11c', 'Nme2', 'Cyp4a14', 'Ccnd1', 'Aars',  
'Ly6d', 'Hsd17b13', 'Amfr', 'Afp', 'Ugt2b35', 'Ugt2b34', 'S100a9', 'Crip2',  
'Cyp4v3', 'Serpina6', 'Serinc3', 'Btg1', 'Defb1', 'Abcb11']
```

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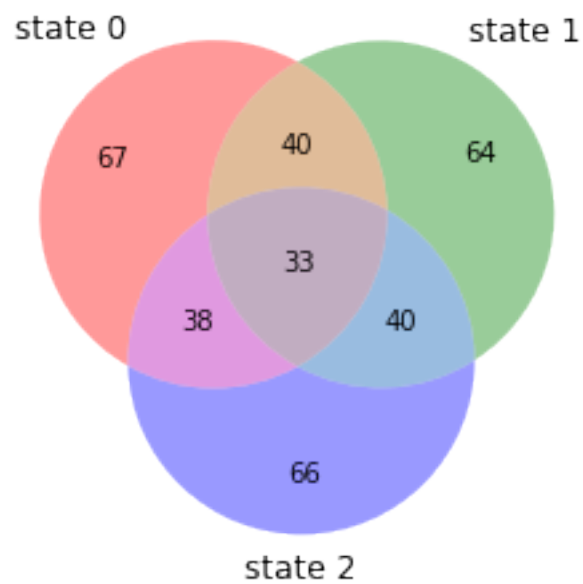
Tbx3



intersected genes of three states:

```
['C6', 'Ddx3y', 'Sult2a2', 'Abhd14b', 'Ube2s', 'Nlrp12', 'Gys2', 'Mup14',
'Ogdh', 'Selenot', 'Rpn1', 'Cyp4f14', 'Cyp2d10', 'Cfhr1', 'Ptprf', 'Galk1',
'Kynu', 'Col18a1', 'S100a9', 'Atpif1', 'Ssu72', 'Serpina6', 'Btg1', 'Sdc1',
'Hao2', 'Erh', 'Pcmt1']
```

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Cux2

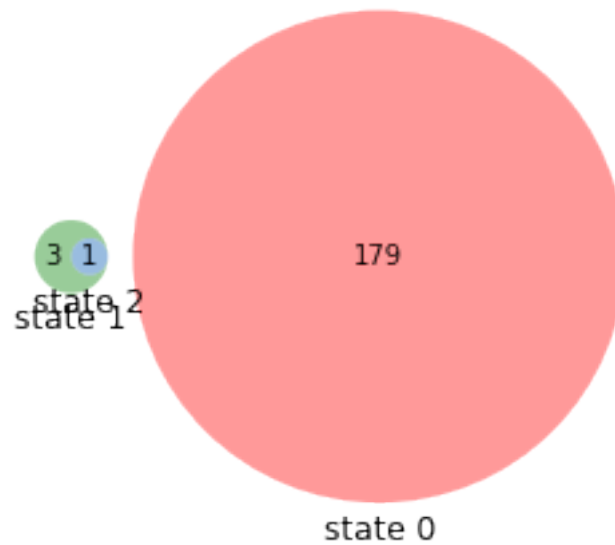


intersected genes of three states:

```
['C6', 'Acss2', 'Mup9', '2200002D01Rik', 'Abcc2', 'Cyp2c23', 'Ube2r2', 'Aco1',  
'Cyp2a12', 'Hamp2', 'Bckdha', 'Nlrp12', 'Slc2a2', 'Saa3', 'Clec2d', 'Adipor2',  
'Tgoln1', 'Slc22a30', 'Coq8a', 'Atp11c', 'Cyp3a25', 'Atp2a2', 'Cd164', 'Afp',  
'Ugt3a2', 'Aadat', 'Raph1', 'Serinc3', 'Btg1', 'Rpn2', 'Prkd3', 'Hsd3b5',  
'Tram1']
```

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Mlxipl



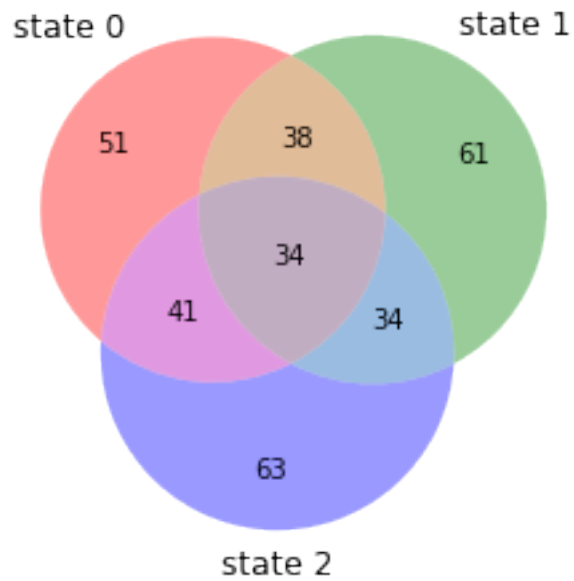
intersected genes of three states:

```
[]
```

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Cux1





intersected genes of three states:

```
['Ddx3y', 'Sult2a2', '2200002D01Rik', 'Cyp2a12', 'Cyp2c37', 'Manf', 'Nlrp12',
'Saa3', 'Anxa5', 'Mup14', 'Ogdh', 'Ranbp1', 'Hba-a1', 'Hba-a2', 'Gm4952',
'Rpn1', 'Slc39a14', 'Mia3', 'Slc22a30', 'Fkbp11', 'Cltc', 'Nme2', 'Ccnd1',
'Cfhr1', 'Grn', 'Lman1', 'Mtss1', 'Tmed5', 'Acot13', 'S100a9', 'Slc25a4',
'Srp19', 'Defb1', 'Hsd3b5']
```

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Zkscan1

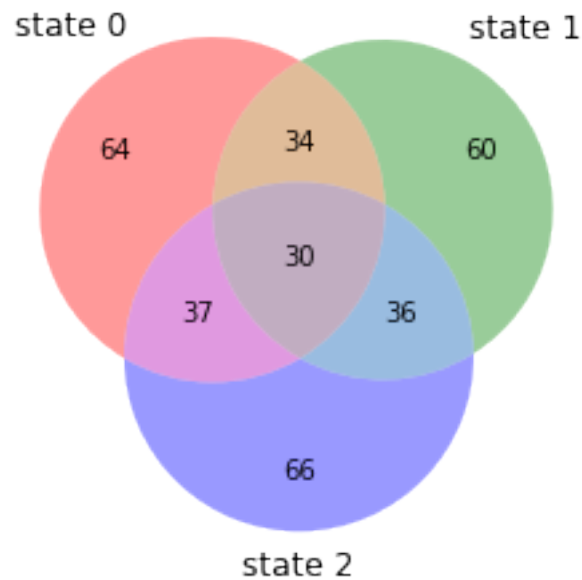


intersected genes of three states:

['C6', 'Ssr1', 'Lipa', 'Mup9', 'Hamp2', 'Me1', 'Cyp2c37', 'Sult2a6', 'Saa3',  
 'Pdia3', 'Gm4952', 'Abat', 'Cyp2j5', 'Spp12a', 'C8b', 'Nsdhl', 'F5', 'Tob1',  
 'Cyp4a14', 'Cpt1a', 'Tfr2', 'Ddx3x', 'Hspb8', 'F12', 'Srp19', 'Man2a1',  
 'Rnf149', 'Ragef4', 'Btg1', 'Hsd3b5', 'Hao2']

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Gtf3a

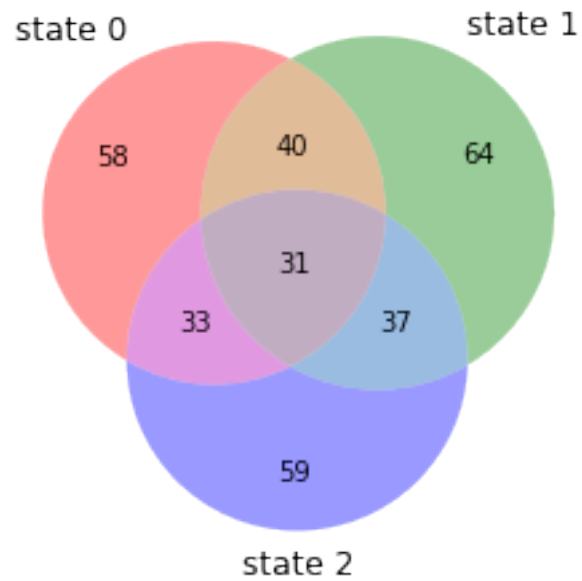


intersected genes of three states:

['Lipa', 'Sult2a2', 'Lrp1', 'Fam96a', '1810022K09Rik', 'Hamp2', 'Cyp2c37',  
 'Clec2d', 'Abhd2', 'Cyp4a12a', 'Hba-a2', 'Tgoln1', 'Atp6v0e', 'Hsd17b12',  
 'Zcrb1', 'Mtttp', 'Nsdhl', 'Nme2', 'Cyp4a14', 'Cdkn1c', 'Cfhr1', 'Por', 'Grn',  
 'Ier3ip1', 'Afp', 'Ugdh', 'F12', 'Serpina6', 'Rnf149', 'Defb1']

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Creb3l2



intersected genes of three states:

```
['Smlr1', 'Tm9sf3', 'Cyp2c67', 'Baat', 'Cpn2', 'Il1rap', 'Clec2d', 'Hypk',
'Adipor2', 'Nhp2', 'Gulo', 'Slc16a2', 'Mia3', 'Slc35d1', 'Tmem59', 'Nsdhl',
'Vmp1', 'Cyp4f14', 'Tob1', 'Cpt1a', 'F13b', 'Tmem56', 'Tmed5', 'Rrbp1', 'Prtn3',
'Ugt3a2', 'F12', 'Gstm2', 'Rnf149', 'Laptm4a', 'Hsd3b5']
```

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Klf15

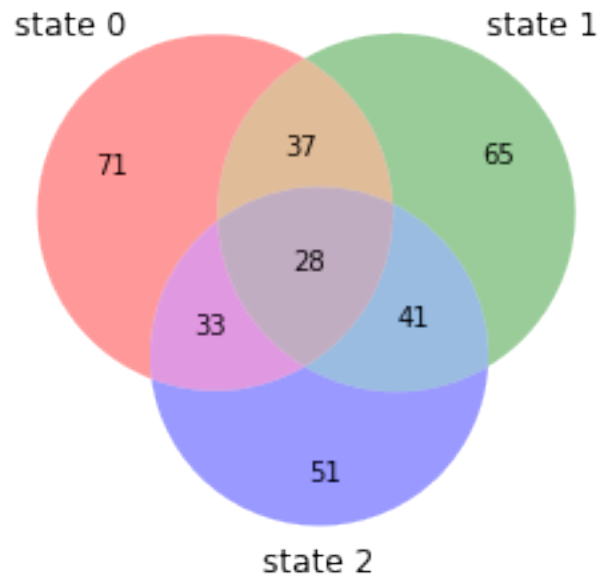


intersected genes of three states:

['Mup17', 'Mup18', 'Tgoln1', 'C8b', 'Ddx3x', 'Gadd45gip1']

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Foxp1

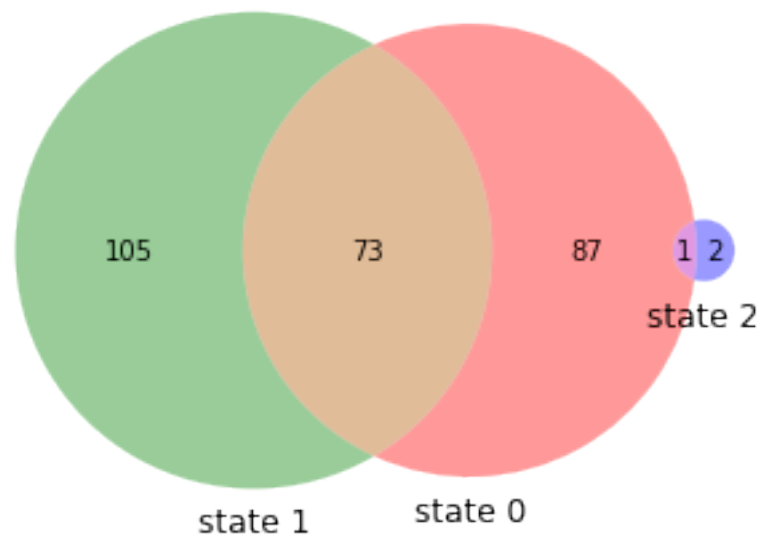


intersected genes of three states:

['Lipa', 'Smlr1', 'Larp4b', 'Me1', 'Cyp2c67', 'Gys2', 'Il1rap', 'Clec2d',  
'Mup14', 'Rpn1', 'Tgoln1', 'Mia3', 'Gjb2', 'Acadsb', 'Cyp2d10', 'Cdkn1c',  
'Tfr2', 'Apol9a', 'Ddx3x', 'Pbld1', 'Amfr', 'Slc17a2', 'Afp', 'S100a9', 'Defb1',  
'Rpn2', 'Tmem19', 'Hao2']

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Bhlhe40

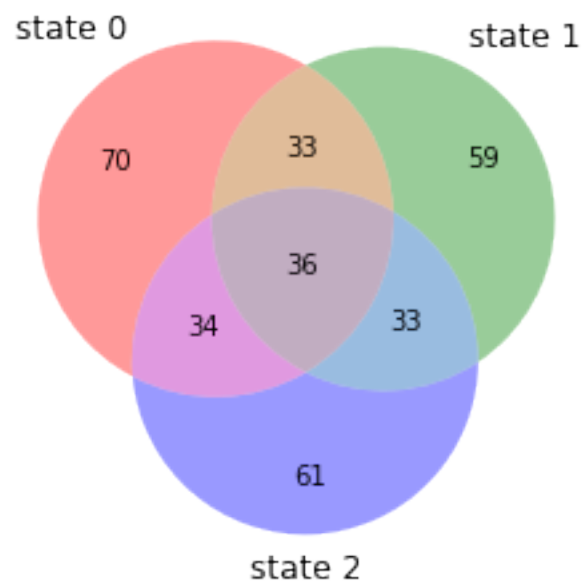


intersected genes of three states:

[]

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Zfp637



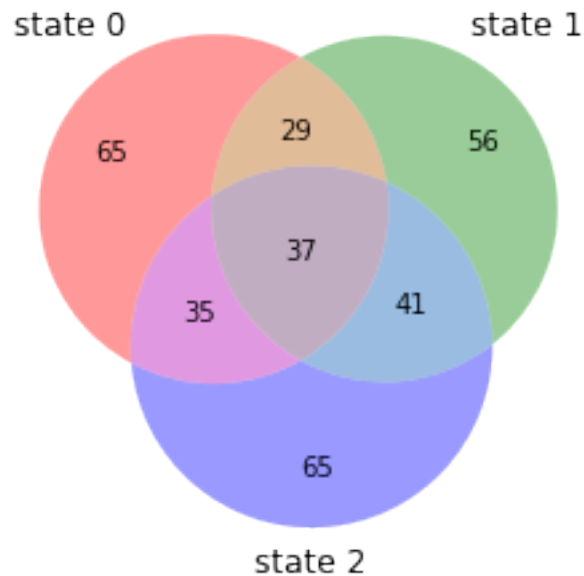
intersected genes of three states:

['Zbtb8os', 'Sult2a2', 'Mup9', 'Aqp9', 'Hamp2', 'Cyp1a2', 'Sult2a6', 'Prdx4',

'Cib1', 'Aplp2', 'Hba-a2', 'Nhp2', '1110008P14Rik', 'Slc16a2', 'Slc35d1',  
 'Atp11c', 'Cdkn1c', 'Cpt1a', 'Por', 'Tmprss6', 'Ldhd', 'Ly6d', 'Man1a', 'Mtss1',  
 'Tmed5', 'Dpyd', 'Hsd17b13', 'Ugt3a2', 'Crip2', 'F12', 'Msmo1', 'Txnrd1',  
 'Slc25a4', 'Serpina6', 'H6pd', 'Hsd3b5']

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Kdm5a

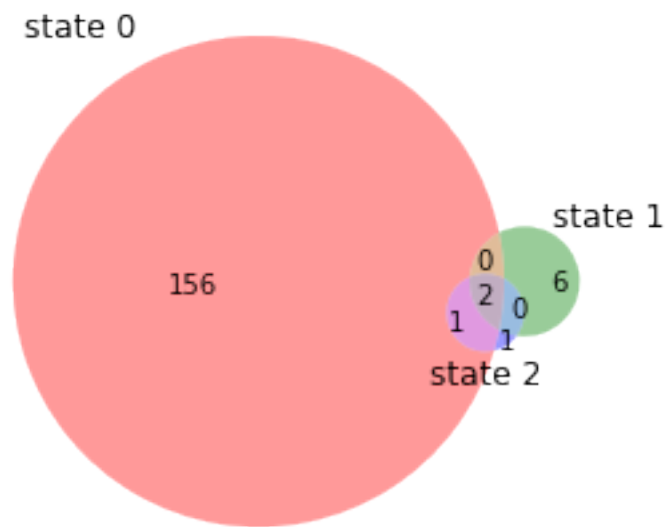


intersected genes of three states:

['C6', 'Ddx3y', 'Acss2', 'Mup9', 'Cyp2a12', 'Abhd14b', 'Ube2s', 'Saa3', 'Aplp2',  
 'Mup21', 'Gm2a', 'Slc16a2', 'Slc22a30', 'Slc35d1', 'Neat1', 'Bet1', 'Atp11c',  
 'U2af1', 'Cyp4f14', 'Tob1', 'Cdkn1c', 'Ccnd1', 'Grn', 'Ldhd', 'Apol9b', 'Lman1',  
 'Mtss1', 'Amfr', 'Afp', 'Prtn3', 'Ugdh', 'Gadd45g', 'Crip2', 'Slc25a4', 'Srp19',  
 'H6pd', 'Defb1']

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Ybx3

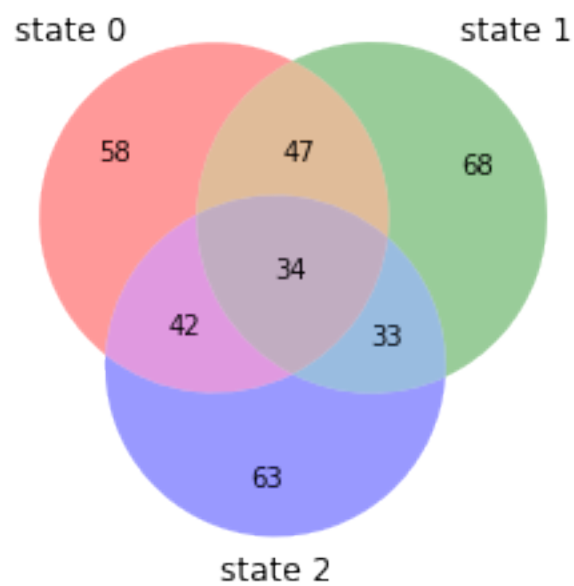


intersected genes of three states:

['Gys2', 'Agmat']

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Crebl2



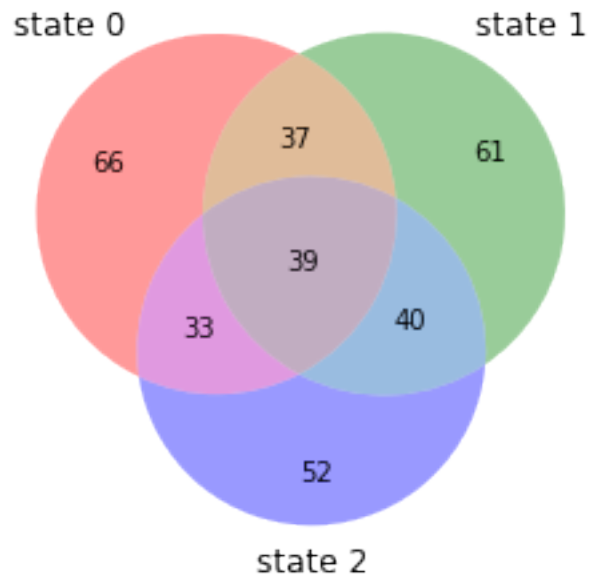
intersected genes of three states:

['Zbtb8os', 'Sult2a2', 'Mup9', 'Fam96a', '2200002D01Rik', 'Me1', 'Prdx4',

'Alas2', 'Acbd5', 'Mup12', 'Selenot', 'Gm4952', '1110008P14Rik', 'Tgoln1',  
 'Slc35d1', 'Aldh9a1', 'Hdgf', 'F5', 'Cyp4f14', 'Cyp4a14', 'Cdkn1c', 'Cfhr1',  
 'F13b', 'Xiap', 'Ptpfrf', 'Slc9a3r1', 'Ly6d', 'Man1a', 'Gadd45g', 'Atpif1',  
 'Serpina6', 'Btg1', 'Sdc1', 'Defb1']

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Aebp2



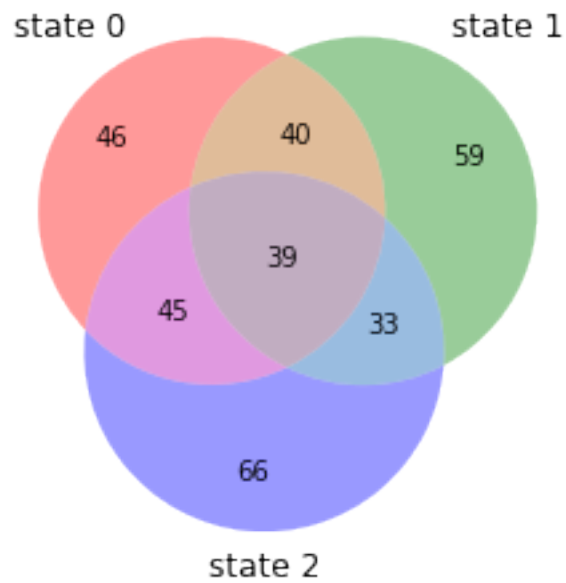
intersected genes of three states:

['Ddx3y', 'Acs14', 'Lrp1', '1810022K09Rik', 'Hamp2', 'Tmem30a', 'Cyp1a2',  
 'Cyp2c37', '1300017J02Rik', 'Sult2a6', 'Rdx', 'March5', 'Surf4', 'Rad23b',  
 'Il1rap', 'Clec2d', 'Mup14', 'Ogdh', 'Slc39a14', 'Tgoln1', 'Cela1', 'Slc35d1',  
 'Gk', 'C8b', 'Acadsb', 'Neat1', 'Atp11c', 'Cdkn1c', 'Apol9b', 'Ptpfrf', 'Ly6d',  
 'Deptor', 'Ugt2b35', 'Gadd45g', 'Tmem243', 'Chpt1', 'Serpina12', 'Gsr',  
 'Laptm4a']

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Sox5



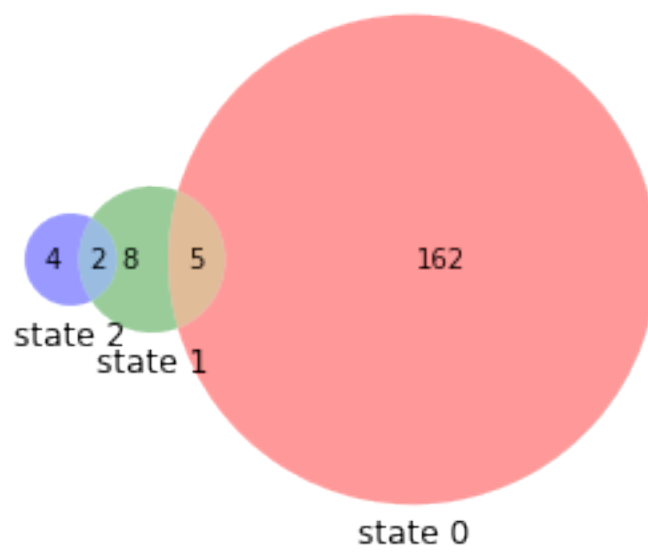


intersected genes of three states:

```
['C6', 'Ddx3y', 'Larp4b', 'Sult2a2', 'Lrp1', '2200002D01Rik', 'Me1', 'Sult2a6',
'Alas1', 'Prdx4', 'Nlrp12', 'Saa3', 'Alas2', 'Rad23b', 'Acbd5', 'Cyp4a12a',
'Hba-a2', 'Gm4952', 'Timm10b', 'Mia3', 'Gjb2', 'Atp6v0e', 'Neat1', 'Itih1',
'U2af1', 'Nme2', 'Cyp4a14', 'Cpt1a', 'Cfhr1', 'Tmprss6', 'Apol9a', 'Fech',
'Psap', 'Slc17a2', 'Ugt2b35', 'Defb1', 'Rpn2', 'Prkd3', 'Hsd3b5']
```

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Peg3

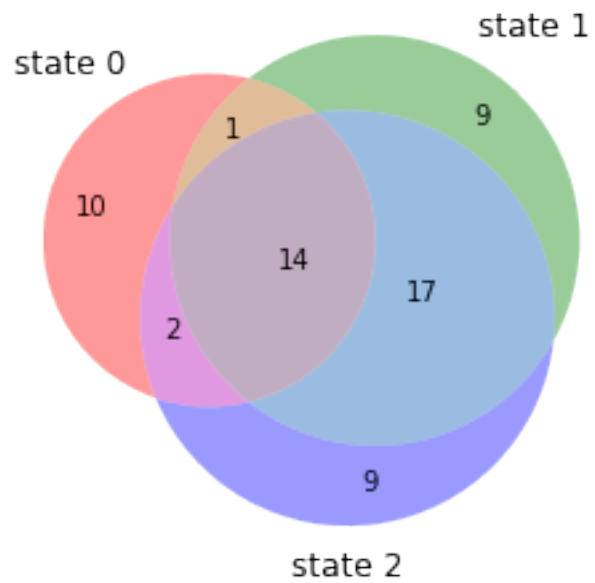


intersected genes of three states:

[]

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Foxa3

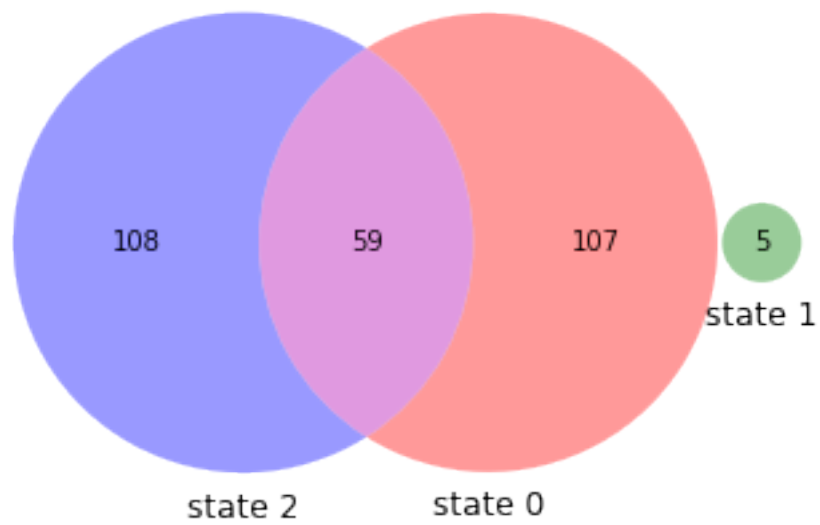


intersected genes of three states:

['Ppib', 'Bag1', 'Slc27a5', 'Ass1', 'Snrpg', 'Sap18', 'Rps3a1', 'Pbld1', 'Prdx2', 'Ugdh', 'Gpx4', 'Ugt3a2', 'Psm4', 'Mrps21']

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Bcl3

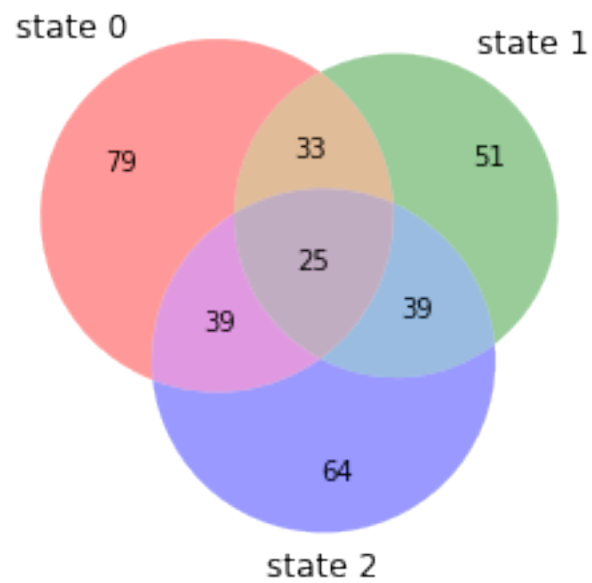


intersected genes of three states:

[]

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Nfkbib



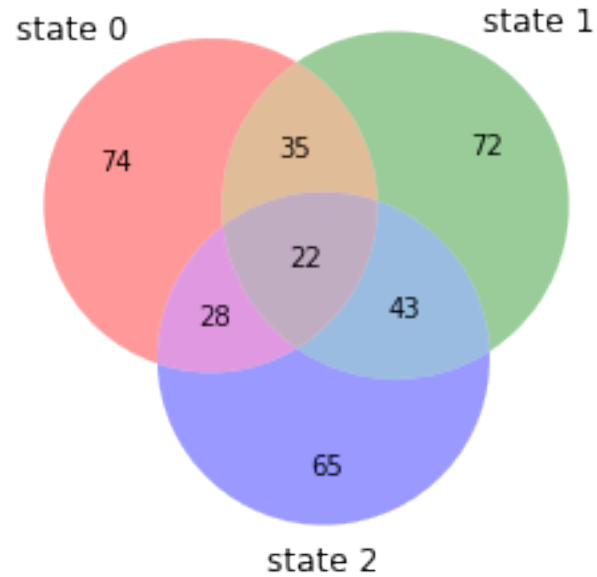
intersected genes of three states:

['Lipa', 'Sult2a6', 'Decr1', 'Abhd2', 'Anxa5', 'Aplp2', 'Cyp4a12a', 'Gm4952',

'Nhp2', 'Abat', 'Ssr3', 'Gm2a', 'Acadsb', 'F5', 'Ly6d', 'Fech', 'Mtss1',  
'S100a9', 'Aadat', 'Mrpl15', 'Tmem243', 'Rnf149', 'Btg1', 'Slirp', 'Snrpd1']

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Usf2



intersected genes of three states:

['C6', 'Sult2a2', 'Mup9', '2200002D01Rik', 'Aqp9', 'Slc38a3', 'Ak3', 'Mup14',  
'Cyp4a12a', 'Serpind1', 'Rpn1', 'Mettl7a1', 'Kmo', 'Gstp3', 'Cyp4a14', 'Ptprf',  
'Man1a', 'Serinc1', 'Defb1', 'Rpn2', 'Tmem19', 'Snrpd1']

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Cebpg

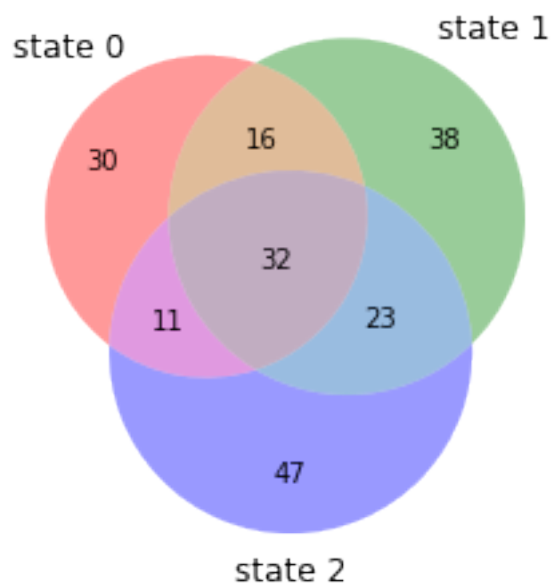


intersected genes of three states:

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['Mup9', 'Psmc4', 'Tm9sf3', 'Tmem30a', 'Pnrc1', 'Slc38a3', 'Prdx4', 'Ak3',
'Mup18', 'Ogdh', 'Hba-a1', 'Hba-a2', 'Sar1b', 'Ces3b', 'Cela1', 'Cyp4a14',
'Cdkn1c', 'Cpt1a', 'F13b', 'Atp2a2', 'Amfr', 'Slc17a2', 'Ugt2b35', 'Lifr',
'Gadd45g', 'Cst3', 'Gstm3', 'Slc25a4', 'Man2a1', 'H6pd', 'Btg1', 'Lpin2']
```

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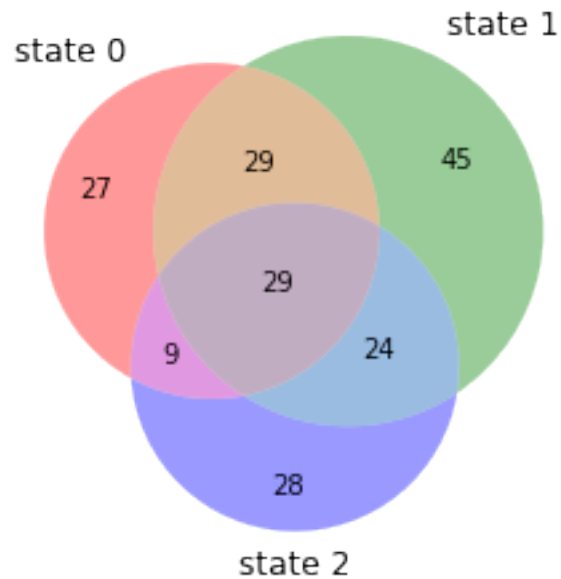
Cebpa



intersected genes of three states:

```
['Fam96a', 'Cyp2c23', 'Cyp2f2', 'Tmem30a', 'Hgd', 'Rdx', 'Higd1a', 'Alas2',
'Anxa5', 'Nop10', 'Adipor2', 'Gfer', 'Gk', 'Fkbp11', 'Neat1', 'Pipox', 'Mttp',
'Cyp4a14', 'Cyp2d9', 'Cd81', 'F13b', 'Ldhd', '1810037I17Rik', 'Ces3a', 'Hspb8',
'Psap', 'Atpif1', 'Serinc3', 'Snrpf', 'Btg1', 'Rpn2', 'Tmem19']
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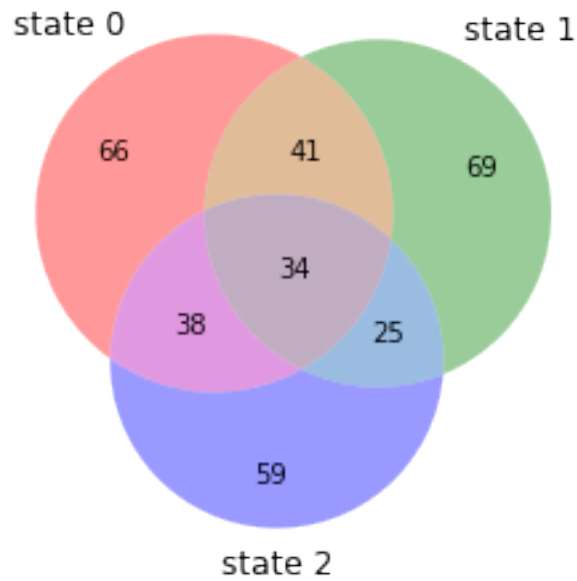
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Atf5



intersected genes of three states:

```
['Ddx3y', 'Acss2', 'Lrp1', 'Hamp2', 'Psm4', 'Slc38a3', 'Pank1', 'Acaa1a',
'Kng2', 'Orm2', 'Gk', 'Mttp', 'Hdgm', 'Tomm20', 'Cyp4a14', 'Map1lc3b', 'G6pc',
'Grn', 'Tmed2', 'Snrpe', 'Sdc2', 'Ftl1-ps1', 'Cyp51', 'Myo1b', 'Slc25a15',
'Slc10a1', 'Psm3', 'Ahcy', 'Zfp3611']
```

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Irf3

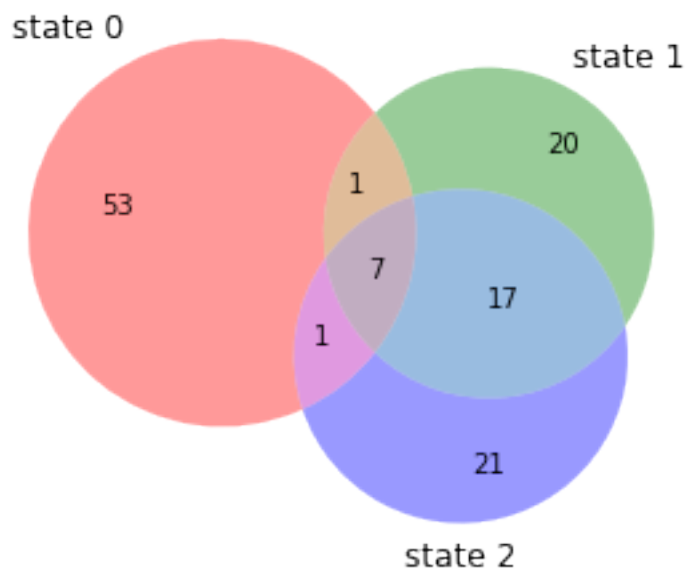


intersected genes of three states:

```
['C6', 'Lipa', 'Mup9', 'Lrp1', '2200002D01Rik', 'Cyp2c23', 'Hamp2', 'Cyp2c37',
'Sult2a6', 'Cyp2j5', 'Gm2a', 'Tgoln1', 'Mia3', 'Hsd17b12', 'Atp11c', 'Cyp4a14',
'F13b', 'Xiap', 'Tmprss6', 'Ier3ip1', 'Cd164', 'Ywhaz', 'Afp', 'Cst3',
'Serinc3', 'Snrpf', 'H6pd', 'Rnf149', 'Lpin2', 'Defb1', 'Stmn1', 'Hsd3b5',
'Snrpd1', 'Csde1']
```

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Dbp

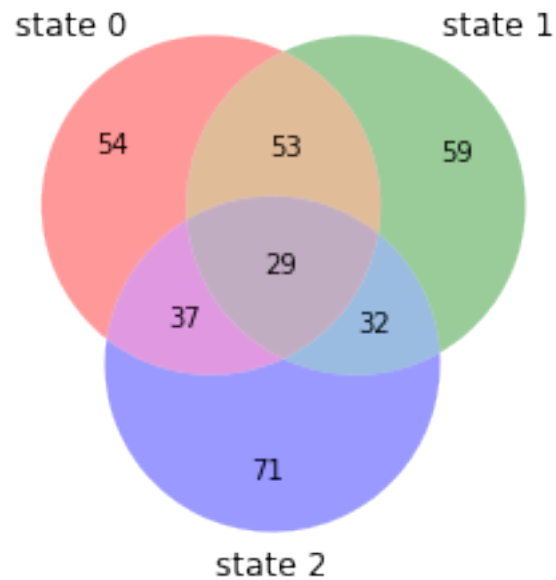


intersected genes of three states:

['Larp4b', 'Sult2a2', 'Apoa1', 'Uroc1', 'Psm4', 'Mrpl34', 'Camk2n1']

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Klf13



intersected genes of three states:

['C6', 'Ddx3y', 'Smlr1', 'Tmem147', 'Cbr1', 'Gys2', 'Cyp4a12a', 'C1s1',  
'Adipor2', 'Selenot', 'Tgoln1', 'Slc16a2', 'Mia3', 'Copz1', 'Slc25a13',  
'Cyp4f14', 'Gstp3', 'Cdkn1c', 'Xiap', 'Apol9b', 'Ly6d', 'Hspb8', 'Psap', 'Btg1',  
'Lpin2', 'Tmem19', 'Snrpd1', 'Tram1', 'Lypla1']

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Mef2a



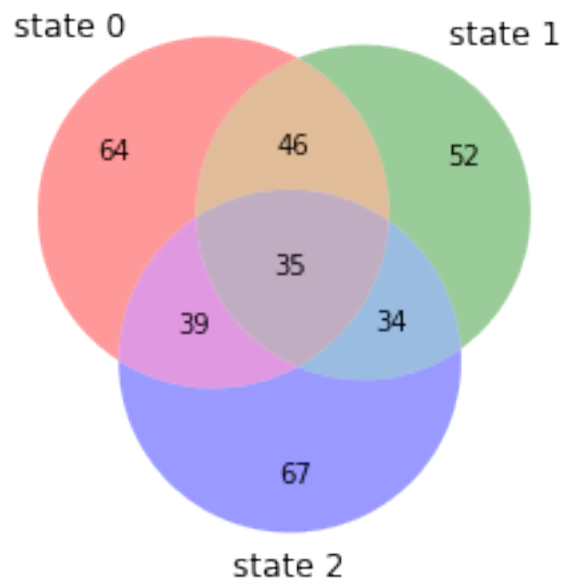


intersected genes of three states:

['C6', 'Lrp1', 'Abcc2', 'Polr2i', 'Hoga1', 'Cyp2c37', 'Alas2', 'Abhd2', 'Mup18', 'Bbox1', 'Ranbp1', 'Hba-a1', 'Hba-a2', 'Gm2a', 'Slc22a30', 'Bola2', 'Vmp1', 'Atp11c', 'Pcx', 'Gstp3', 'Cdkn1c', 'Por', 'Xiap', 'Grn', 'Ube2l6', 'Fasn', 'Deptor', 'Mut', 'Ywhaz', 'Cmah', 'S100a9', 'Lifr', 'Cers2', 'Gstm2', 'Tmem167', 'Serinc3', 'H6pd', 'Rnf149', 'Tmem19', 'Hao2', 'Snrpd1', 'Erh']

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Nr2f2

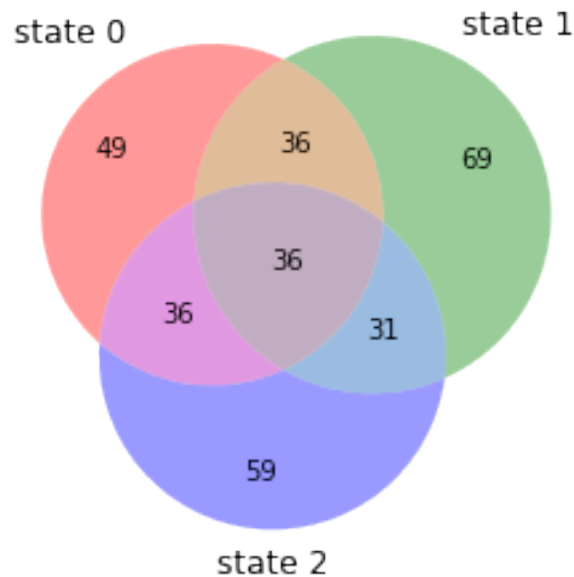


intersected genes of three states:

['Ddx3y', 'Larp4b', 'Sult2a2', 'Lrp1', 'Abcc2', 'Aqp9', 'Cyp1a2', 'Cyp2c37',  
'Saa3', 'Alas2', 'Clec2d', 'Abhd2', 'Mup12', 'Cyp4a12a', 'Pdia3', 'Dgat2', 'Hbb-  
bt', '1110008P14Rik', 'Tgoln1', 'Slc22a30', 'Slc35d1', 'Adh4', 'Aldh9a1',  
'Cyp4a14', 'Gm4788', 'Ube2l6', 'Man1a', 'Hspb8', 'Sdc2', 'Serpina6', 'Man2a1',  
'Serinc3', 'H6pd', 'Rnf149', 'Tmem19']

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Maz

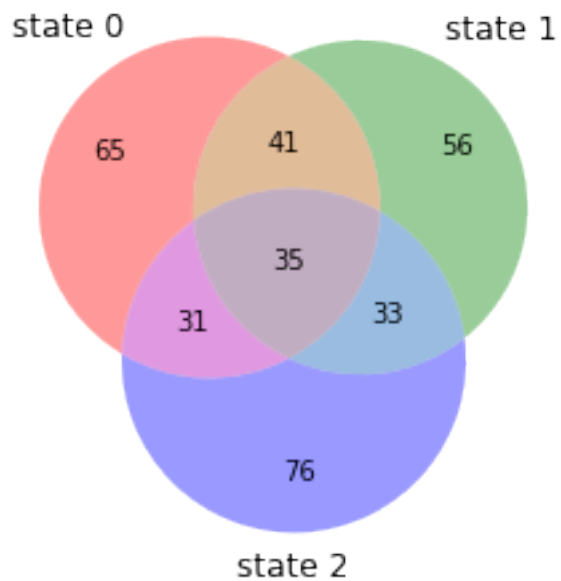


intersected genes of three states:

['C6', 'Acs14', '2200002D01Rik', 'Prodh2', 'Aqp9', 'Me1', 'Cyp2c37', 'Pdcd4',  
'Sult2a6', 'Nlrp12', 'Saa3', 'Mup14', 'Aplp2', 'Cyp4a12a', 'Nat8f1', 'Cyp2j5',  
'Neat1', 'Aass', 'Nsdhl', 'Nme2', 'Cdkn1c', 'Ccnd1', 'Gm4788', 'Tmprss6',  
'Tmed5', 'S100a9', 'Cdc34', 'Prtn3', 'F12', 'Mrps21', 'Slc25a4', 'Srp19',  
'Serpina6', 'Serinc3', 'Slirp', 'Defb1']

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Irf7

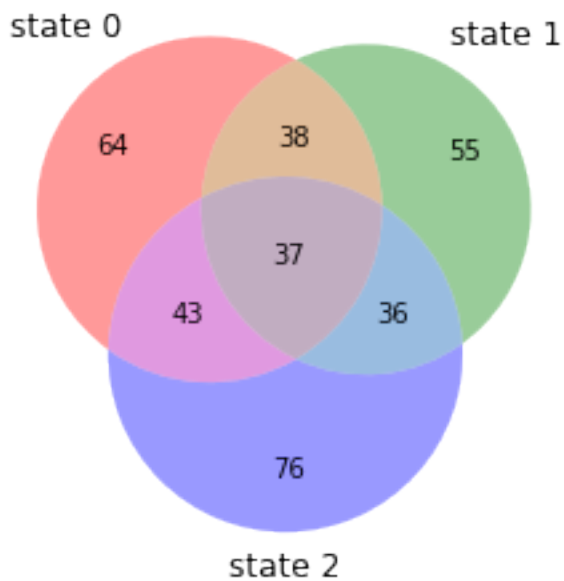


intersected genes of three states:

```
['C6', 'Sult2a2', 'Acss2', 'Mup9', 'Aqp9', 'Me1', 'Pnrc1', '1300017J02Rik',
'Surf4', 'Nlrp12', 'Anxa5', 'Ak3', 'Cib1', 'Gm4952', 'Rpn1', 'Slc22a30', 'Tfr2',
'Grn', 'Apol9b', 'Ube2l6', 'Lman1', 'Hsd17b13', 'Amfr', 'Cxcl1', 'Afp', 'Spp2',
'Ugt2b35', 'Gstm2', 'Slc25a4', 'Klkb1', 'Lpin2', 'Defb1', 'Tmem19', 'Prkd3',
'Hsd3b5']
```

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Foxo3



intersected genes of three states:

```
['Smlr1', 'Sult2a2', 'Acss2', 'Rdx', 'Surf4', 'Kng2', 'Ak3', 'Mup18',
'Cyp4a12a', 'Adipor2', 'Ufm1', 'Gm4952', 'Hbb-bt', 'Rpn1', 'Cyp2j5', 'Gm2a',
'Gfer', 'Copz1', 'Slc22a30', 'Gk', 'Nsdhl', 'Atp11c', 'Cyp4a14', 'Xiap',
'Ube2l6', 'Lman1', 'Man1a', 'Prtn3', 'Ugdh', 'Cst3', 'Aadat', 'Cyp51',
'Serpina6', 'Iqgap2', 'Snrpf', 'Rapegef4', 'Hao2']
```

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Hsf2

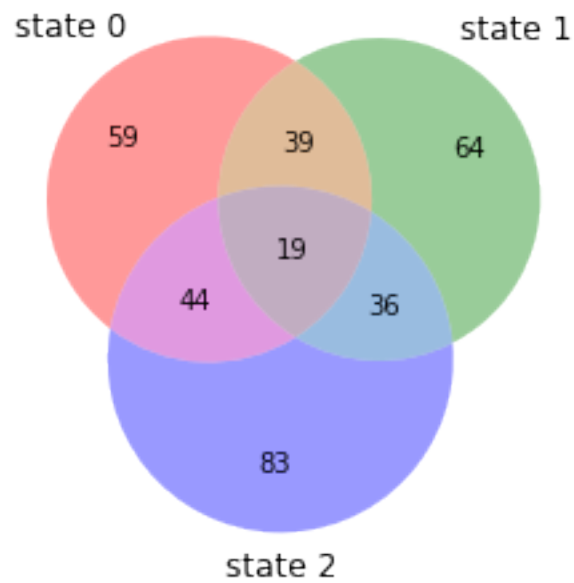


intersected genes of three states:

```
['C6', 'Sult2a2', 'Hamp2', 'Me1', 'Sult2a6', 'Clec2d', 'Cyp4a12a', 'Pdia3',
'Hba-a2', 'Gm4952', 'Slc16a2', 'Mia3', 'Fkbp11', 'Tstd1', 'Adh4', 'Mttp',
'Cyp4f14', 'Cdk2ap2', 'Cyp2d10', 'Cd81', 'Apol9a', 'Ptprf', 'Lman1', 'Ly6d',
'Mtss1', 'Tmem56', 'Cdc34', 'Prtn3', 'Lpl', 'Aadat', 'Srp19', 'Klkb1', 'Myo1b',
'Serinc3', 'Snrpf', 'Slirp', 'Defb1', 'Rpn2', 'Ttc39c']
```

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Arid5b

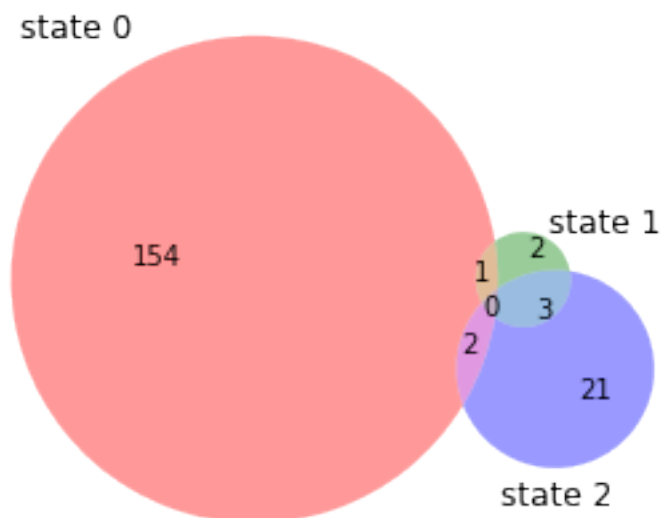


intersected genes of three states:

```
['Aco1', 'Elov15', 'Hamp2', 'Cyp2c37', 'Sult2a6', 'Rpn1', 'Tuba1c', 'Tuba1b',
'Gstp3', 'Tfr2', 'Apol9a', 'Tmed5', 'Mut', 'Cxcl1', 'Txnrd1', 'Serinc3',
'Rapgef4', 'Pdia6', 'Defb1']
```

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Tfam

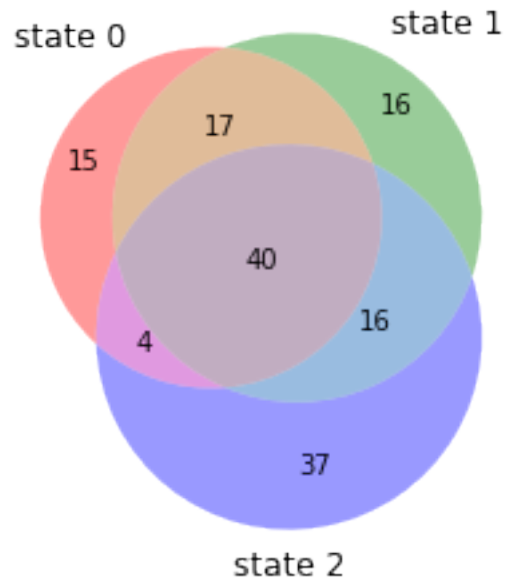


intersected genes of three states:

[]

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Creb3l3

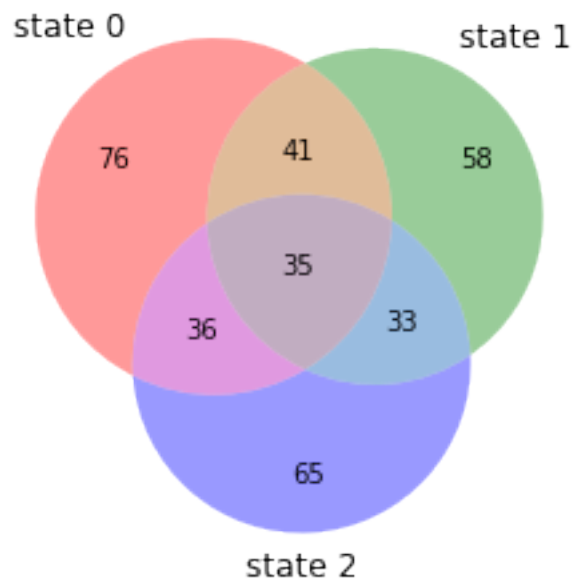


intersected genes of three states:

['Abcc2', 'Aqp9', 'Tm9sf3', 'Cyp7b1', 'Cyp2c67', 'Baat', 'Slc2a2', 'Gabarapl1',  
'Abat', 'Lpgat1', 'Ssr3', 'Dcaf11', 'Tax1bp1', 'Arf5', 'Atp11c', 'Hras',  
'Rtraf', 'Polr1d', 'AI182371', 'Cyp2d10', 'Qsox1', 'Rbx1', 'Tfr2', 'Mien1',  
'Por', 'Tmprss6', 'Ldhd', 'Kynu', 'Fech', 'Akr1c14', 'Pbld1', 'Hsd17b13',  
'Gpt2', 'Lpl', 'F12', 'Lect2', 'Insig1', '2410015M20Rik', 'Sdhb', 'Cdc42']

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Zbtb7a



intersected genes of three states:

```
['C6', 'Larp4b', 'Sult2a2', '2200002D01Rik', 'Cyp1a2', 'Cyp2c37', 'Mcee',
'Abhd2', 'Cyp4a12a', 'Hba-a1', 'Hba-a2', 'Timm10b', 'Nat8f1', 'Fads1', 'Tgoln1',
'Slc16a2', 'Vmp1', 'Nme2', 'Tob1', 'Gstp3', 'Elovl3', 'Tfr2', 'Por', 'Xiap',
'Slc17a2', 'Afp', 'Ugdh', 'Lifr', 'Gstm2', 'H6pd', 'Myl12b', 'Defb1', 'Stmn1',
'Hsd3b5', 'Abcb11']
```

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Hmg20b

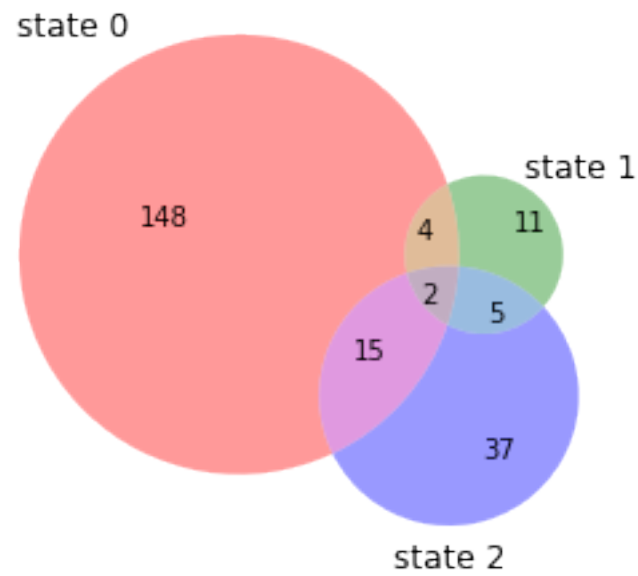


intersected genes of three states:

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['C6', 'Ddx3y', 'Sult2a2', 'Acss2', 'Cyp2c37', 'Sult2a6', 'Alas2', 'Mup12',  
'Mrpl18', 'Ufm1', 'Tgoln1', 'Tmem176a', 'Cyp4a14', 'Gm4788', 'Cfhr1', 'Ier3ip1',  
'Ptprf', '1810037I17Rik', 'Ly6d', 'Serinc1', 'Cxcl1', 'Afp', 'Ugt2b1', 'Ugt3a2',  
'Txnrd1', 'Proc', 'Btg1']
```

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Nfic



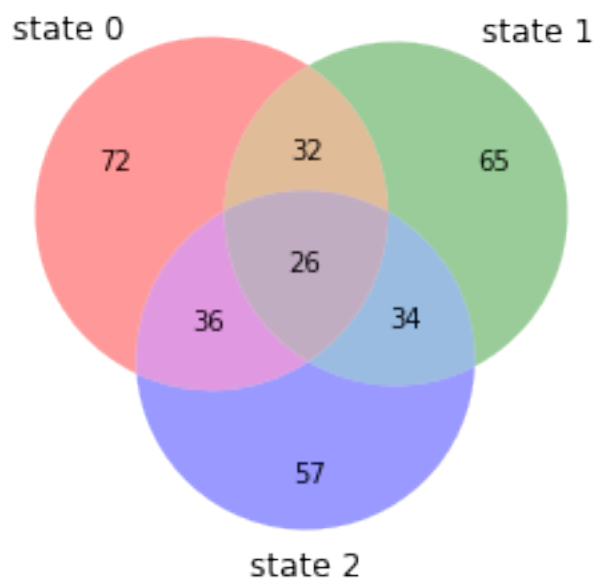
intersected genes of three states:

```
['Hbb-bt', '1110008P14Rik']
```

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Nfyb





intersected genes of three states:

```
['Sult2a2', 'Mup9', 'Aqp9', 'Aco1', 'Tmem30a', 'Sult2a6', 'Ube2s', 'Il1rap',
'Hrg', 'Cib1', 'Mup14', 'Ranbp1', 'Hba-a2', 'Gm4952', 'Gm2a', 'Tgoln1', 'Mia3',
'Tuba1b', 'Por', 'Man1a', 'Hspb8', 'Psap', 'Raph1', 'Serpina3m', 'Sdc1',
'Defb1']
```

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Nr1h4

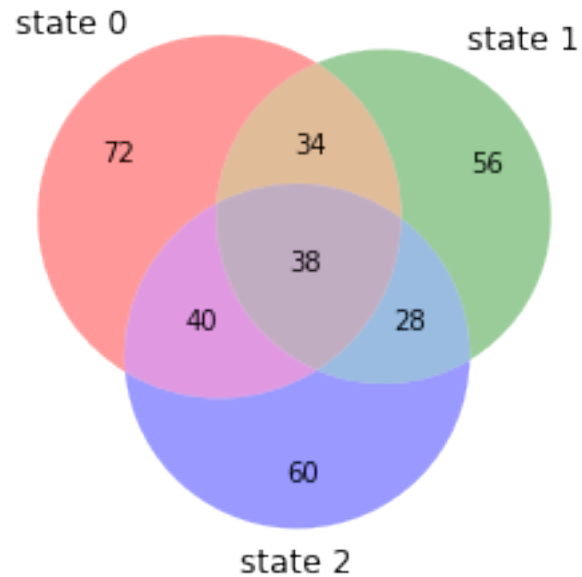


intersected genes of three states:

['Gm2a']

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Thap2

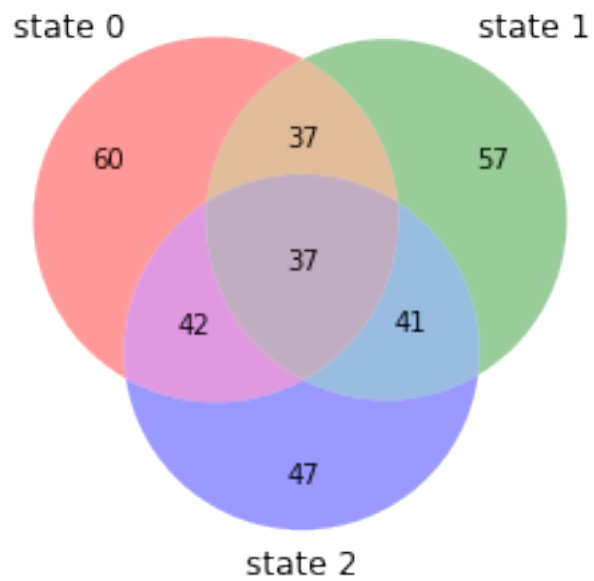


intersected genes of three states:

['Acsl4', 'Sult2a2', '2200002D01Rik', 'Hamp2', 'Tm9sf3', 'Me1', 'Cyp2c67',  
'Sult2a6', 'Slc27a5', 'Nlrp12', 'Slco1a1', 'Alas2', 'Kng2', 'Serpind1',  
'Hba-a2', 'Bnip3l', '1110008P14Rik', 'Msra', 'Slc16a2', 'Mia3', 'Gjb2', 'Gk',  
'Copa', 'Hsd17b12', 'Aldh9a1', 'Cyp4a14', 'Cpt1a', 'Xiap', 'Aars', 'Amfr',  
'Afp', 'S100a9', 'Lifr', 'Serpina6', 'Gsr', 'Snrpf', 'Rnf149', 'Defb1']

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Stat6

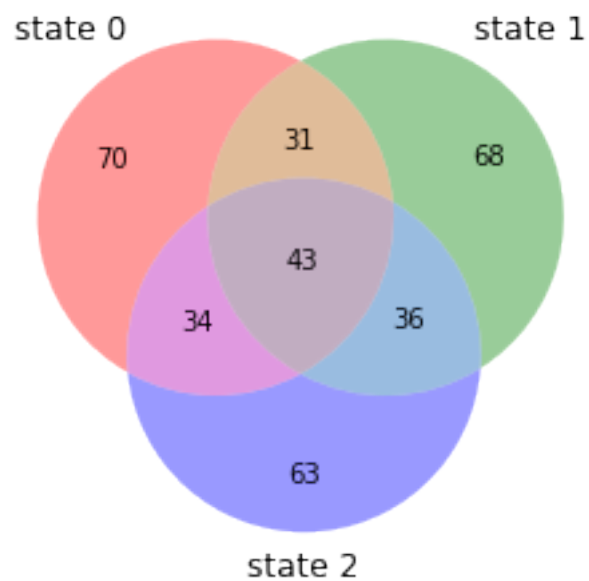


intersected genes of three states:

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['C6', 'Ddx3y', 'Smlr1', 'Sult2a2', 'Fam96a', 'Aqp9', 'Elov15', 'Sult2a6',
'Nlrp12', 'Cyp4a12a', 'C1s1', 'Pdia3', 'Dgat2', 'Hba-a1', 'Gm4952', 'Hbb-bt',
'Abat', 'Lpgat1', '1110008P14Rik', 'Slc35d1', 'Tuba1b', 'Aass', 'Tomm20',
'Cdkn1c', 'G6pc', 'Por', 'Grn', 'Ddx3x', 'Mtss1', 'Fasn', 'Afp', 'Ugt2b35',
'Txnrd1', 'Serpina6', 'Serinc3', 'Defb1', 'Hsd3b5']
```

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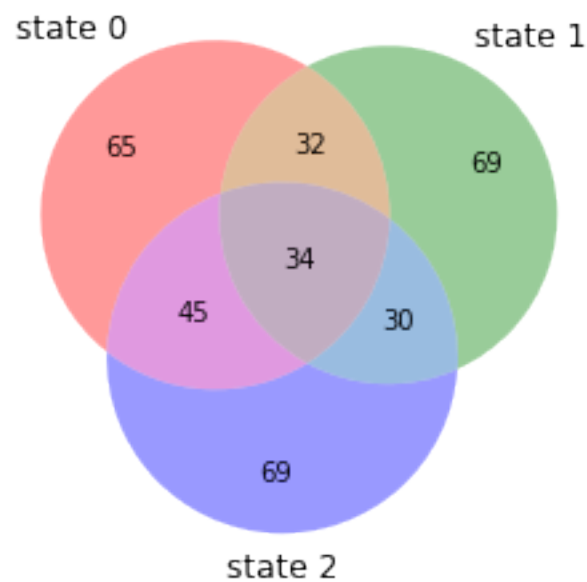
Stat2



intersected genes of three states:

['C6', 'Ddx3y', 'Acss2', 'Lrp1', 'Aco1', 'Elov15', 'Tm9sf3', 'Pnrc1', 'Cyp2c37',  
 '1300017J02Rik', 'Surf4', 'Nlrp12', 'Saa3', 'Cpn2', 'Rad23b', 'Mup14',  
 'Selenot', 'Ctsb', 'Copz1', 'Ces3b', 'Slc22a30', 'Tmem176a', 'Neat1', 'Srsf3',  
 'Zcrb1', 'Vmp1', 'Nme2', 'Cdkn1c', 'Tfr2', 'F13b', 'Ldhd', 'Apol9b', 'Ptprf',  
 'Ly6d', 'Man1a', 'Hsd17b13', 'Slc25a4', 'Srp19', 'Serinc3', 'Btg1', 'Tmem19',  
 'Hsd3b5', 'Pasma6']

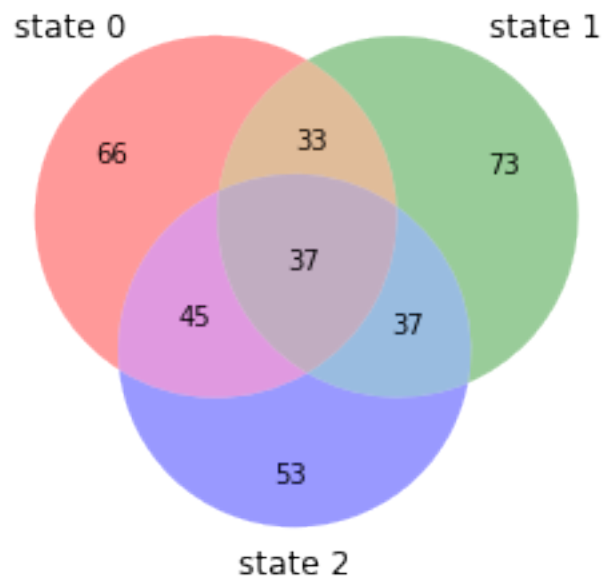
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 Smarcc2



intersected genes of three states:

['C6', 'Ddx3y', 'Sult2a2', 'Acss2', 'Mup9', 'Me1', 'Cyp2c37', 'Ube2s', 'Alas2',  
 'Rad23b', 'Abhd2', 'Anxa5', 'Ogdh', 'Hypk', 'Gm4952', 'Rpn1', 'Slc39a14',  
 'Slc16a2', 'Ces3b', 'Psm11', 'U2af1', 'Gstp3', 'Tmprss6', 'Tmed5', 'Dnajc12',  
 'Mut', 'Lpl', 'Raph1', 'Klkb1', 'Snrfp', 'H6pd', 'Btg1', 'Prkd3', 'Hsd3b5']

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 Tfdp1

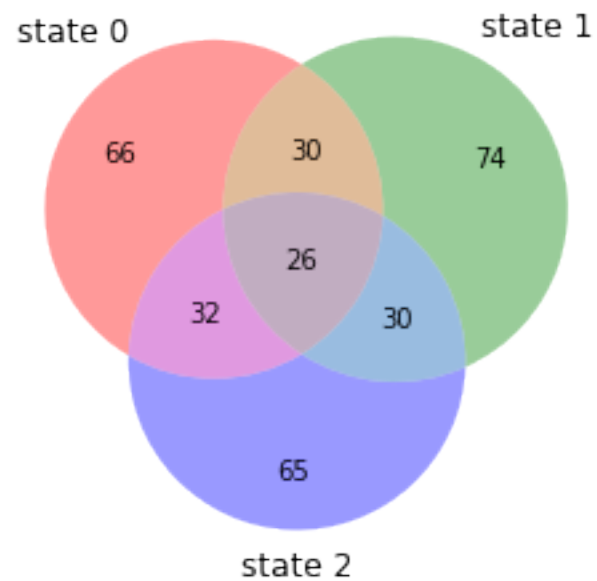


intersected genes of three states:

```
['C6', 'Ssr1', 'Mup9', 'Cyp2c67', 'Sult2a6', 'Nlrp12', 'Slco1a1', 'Mup18',
'Nhp2', 'Ces3b', 'Slc35d1', 'Mettl7a1', 'Neat1', 'Itih1', 'Psmc11', 'Vmp1',
'Cyp4a14', 'Cyp2d10', 'Grn', 'Apol9a', 'Ptrpf', 'Ly6e', 'Tmed5', 'Mut', 'Ywhaz',
'Cmah', 'Cdc34', 'Ugt3a2', 'Gadd45g', 'Lpl', 'Ftl1-ps1', 'Srp19', 'Tmem243',
'Myl12b', 'Defb1', 'Stmn1', 'Tmem19']
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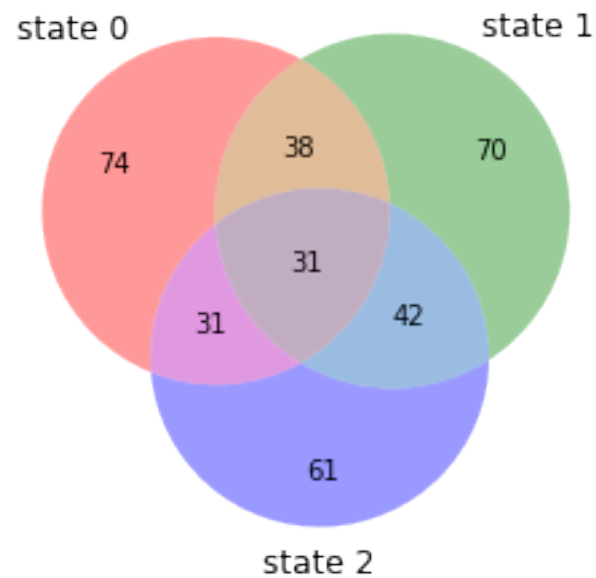
Irf2



intersected genes of three states:

```
['C6', 'Ddx3y', 'Acss2', 'Abcc2', 'Prodh2', 'Hamp2', 'Tmem30a', 'Mup12',
'Hba-a1', 'Nhp2', 'Abat', 'Sap18', 'Slc35d1', 'Psm11', 'Vmp1', 'Tmprs6',
'Aars', 'Pbld1', 'S100a9', 'Cst3', 'F12', 'Raph1', 'Slc25a4', 'Steap4',
'Rnf149', 'Defb1']
```

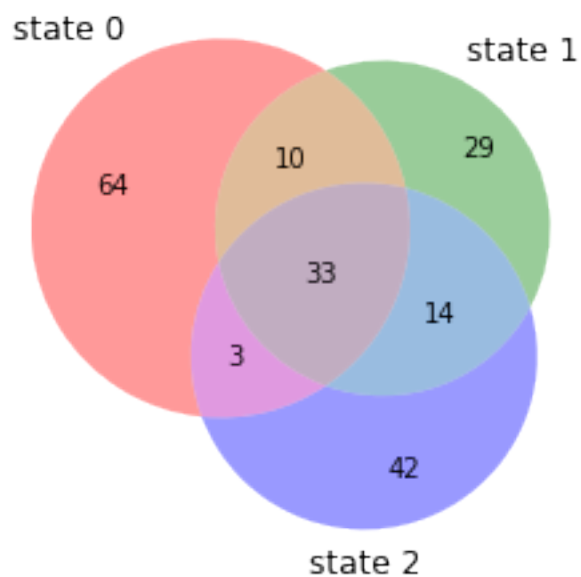
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Gatad2a



intersected genes of three states:

```
['Sult2a2', '2200002D01Rik', 'Abcc2', 'Anp32a', '1300017J02Rik', 'Cyp4a12a',
'Pdla3', 'Gm4952', 'Hbb-bt', '1110008P14Rik', 'Gm2a', 'Slc16a2', 'Arl6ip1',
'Slc35d1', 'Mett17a1', 'Neat1', 'F5', 'Ccnd1', 'Ptrpf', '1810037I17Rik', 'Mut',
'Spp2', 'Sdc2', 'Gstm3', 'Serpina6', 'Man2a1', 'H6pd', 'Btg1', 'Lpin1', 'Defb1',
'Tram1']
```

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Jund

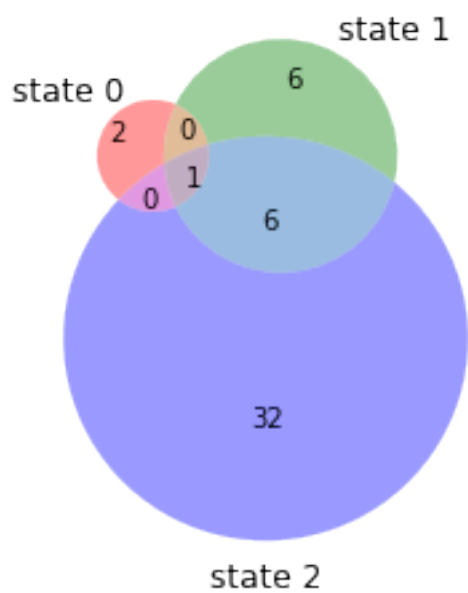


intersected genes of three states:

```
['Polr2i', 'Me1', 'March5', 'Gys2', 'Rad23b', 'Mup18', 'Mup21', 'Ogdh',
'Selenot', 'Hnrnpab', 'AW112010', 'Bnip3l', 'Leap2', 'Gm2a', 'Arl6ip1', 'Krt18',
'Sppl2a', 'Dhcr24', 'Neat1', 'Nme2', 'Elov13', 'Cdkn1c', 'Psm3', 'Cpt1a',
'Actg1', 'Dpys', 'Cxcl1', 'Afp', 'S100a9', 'Elov12', 'Iqgap2', 'Lpin2', 'Agmat']
```

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Nr2f6

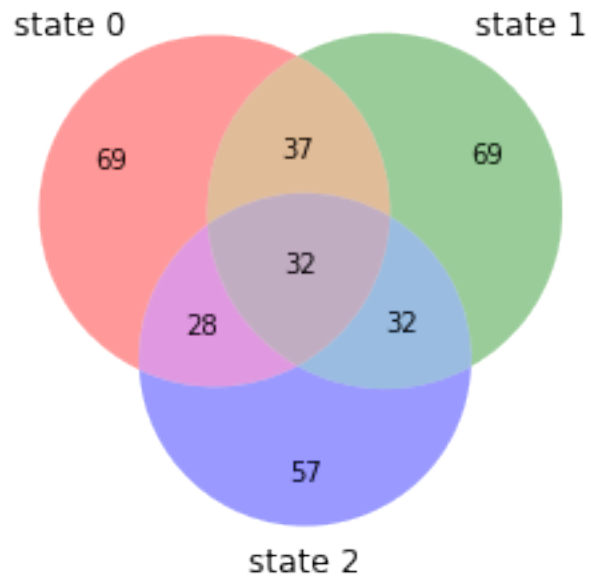


intersected genes of three states:

['Serpina10']

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Smad1



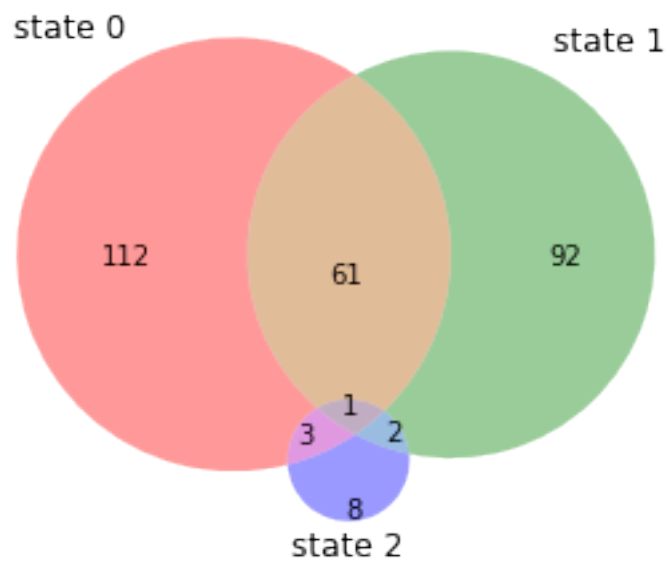
intersected genes of three states:

['Acss2', 'Mup9', 'Aqp9', 'Me1', 'Cyp2c67', 'Sult2a6', 'March5', 'Ube2s',  
'Alas2', 'Il1rap', 'Clec2d', 'Mup14', 'Mup18', 'Gm4952', 'Gulo', 'Atp6v0e',  
'Copa', 'Nsdhl', 'Cyp4a14', 'Cfhr1', 'Ptprf', 'Hspb8', 'Slc25a4', 'Cyp51',  
'Serpina6', 'Serinc3', 'Rnf149', 'Raggef4', 'Lpin2', 'Hao2', 'Aldh6a1',  
'Snrpd1']

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Smarca5



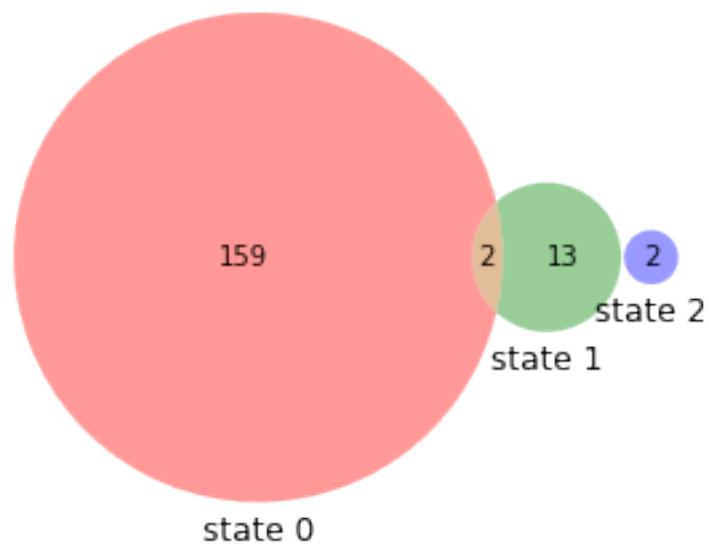


intersected genes of three states:

['Rpn2']

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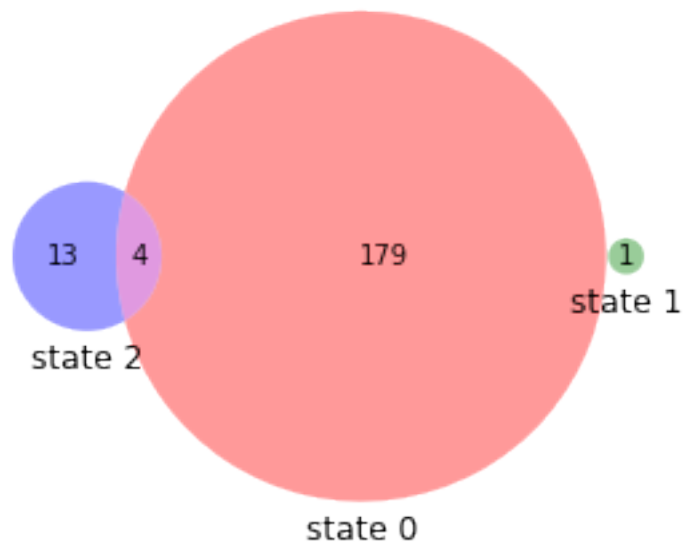
Nfix



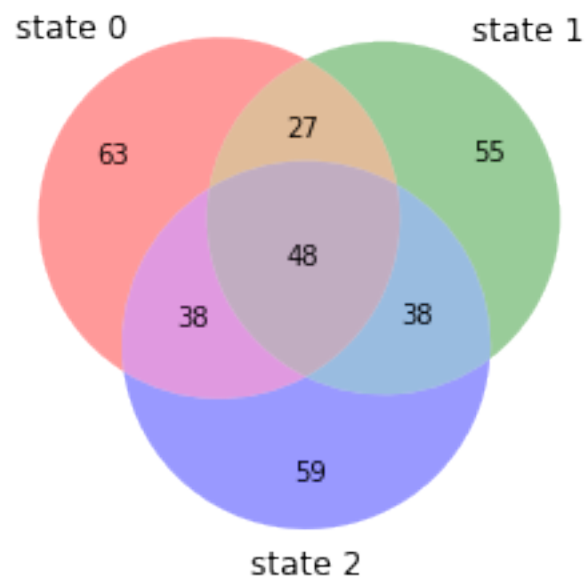
intersected genes of three states:

[]

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Junb



intersected genes of three states:  
[]  
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Sall1

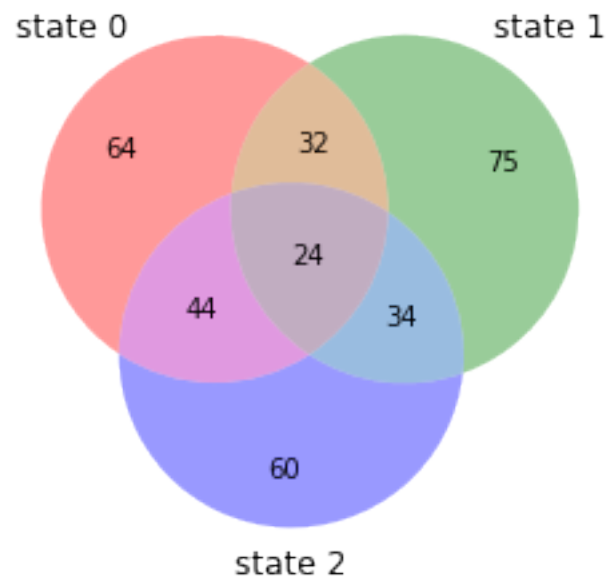


intersected genes of three states:

```
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'Sardh', 'Nlrp12', 'Eif4g1', 'Cyp4a12a', 'C1s1', 'Serpind1', 'Selenot',
'Hba-a2', 'Gm4952', 'Rpn1', 'Mia3', 'Arl6ip1', 'C8b', 'Neat1', 'Itih1', 'Mttp',
'Aldh9a1', 'F5', 'Cyp2d26', 'Cyp4a14', 'Cpt1a', 'Tfr2', 'G6pc', 'Ldhd',
'Ube2l6', 'Cd164', 'Pbld1', 'Rrbp1', 'Mut', 'Afp', 'Lpl', 'Aadat', 'Txnrd1',
'Slc25a4', 'Serinc3', 'Lpin2', 'Defb1', 'Ddi2', 'Stmn1', 'Erh']
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Ctcf

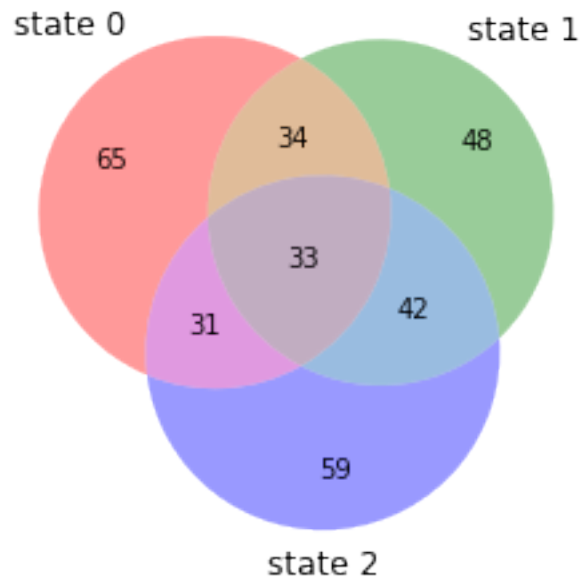


intersected genes of three states:

```
['C6', 'Nlrp12', 'Alas2', 'Rad23b', 'Abhd2', 'Ogdh', 'Hba-a1', 'Slc16a2',
'Mia3', 'Acsm1', 'Dph3', 'Adh4', 'Pcx', 'Cyp4a14', 'F13b', 'Ly6d', 'Fasn',
'Psap', 'S100a9', 'Cers2', 'Defb1', 'Rpn2', 'Hsd3b5', 'Abcb11']
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Nfatc3

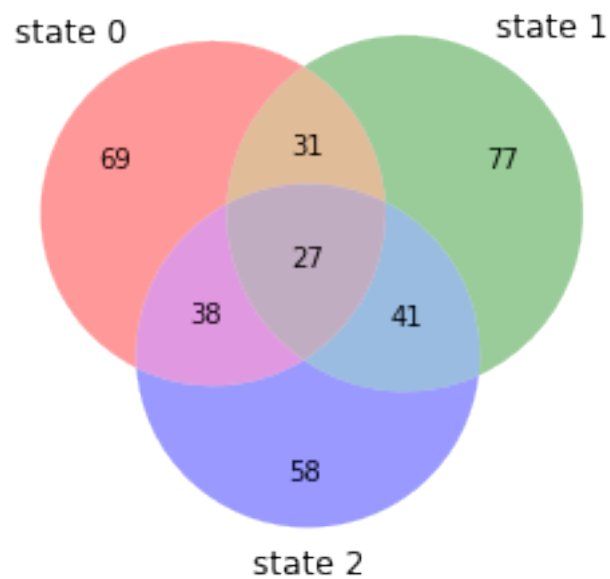


intersected genes of three states:

['C6', 'Acsl4', 'Larp4b', 'Sult2a2', 'Acss2', 'Cyp2c37', 'Sult2a6', 'Surf4', 'Saa3', 'Alas2', 'Rad23b', 'Kng2', 'Gabarapl1', 'Abhd2', 'Hba-a2', 'Rpn1', 'Slc39a14', 'Bnip3l', '1110008P14Rik', 'Cela1', 'Kmo', 'Tuba1c', 'Copa', 'Nsdhl', 'Cyp4a14', 'Cdkn1c', 'Ly6d', 'Pbld1', 'Hsd17b13', 'Ywhaz', 'Lifr', 'Crip2', 'Pcmd1']

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Zfhx3

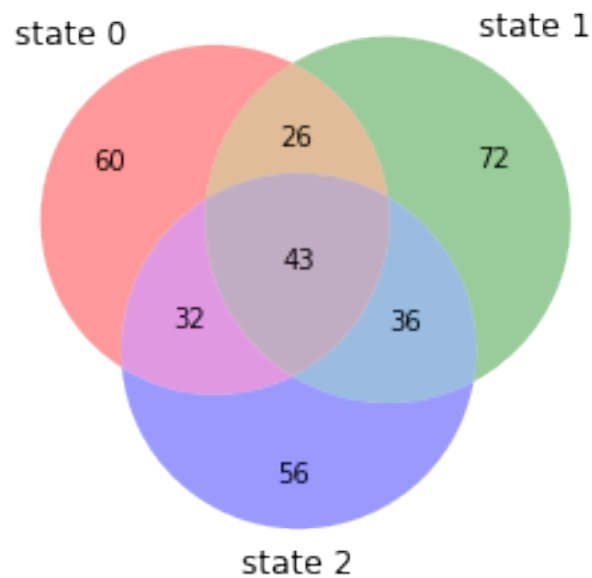


intersected genes of three states:

['Ddx3y', 'Sult2a2', 'Hamp2', 'Acad11', 'Gys2', 'Il1rap', 'Clec2d', 'Eif4g1',  
'Mup14', 'Ogdh', 'Tgoln1', 'Slc16a2', 'Acsn1', 'Tax1bp1', 'Hsd17b12', 'Neat1',  
'Itih1', 'F5', 'Ndufs8', 'Xiap', 'Pbld1', 'Cmah', 'Ugt2b35', 'Lifr', 'Gadd45g',  
'Iqgap2', 'Laptn4a']

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Maf

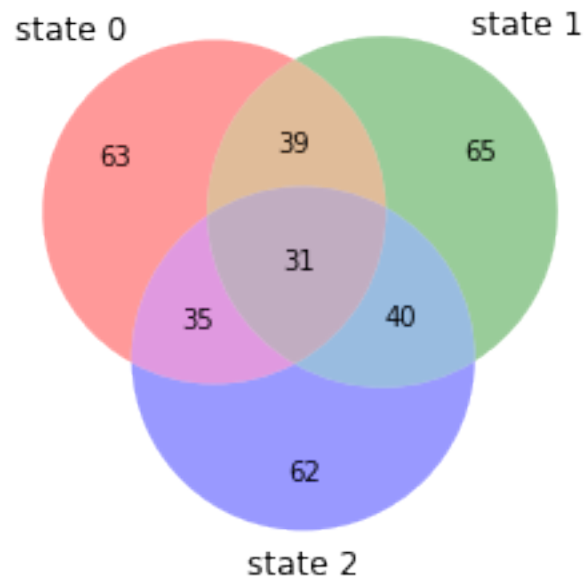


intersected genes of three states:

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'Me1', 'Sult2a6', 'Abhd14b', 'Nlrp12', 'Gys2', 'Abhd2', 'Mup18', 'Gm2a',  
'Tgoln1', 'Slc16a2', 'Tuba1c', 'Atp6v0e', 'Fkbp11', 'Dph3', 'Neat1', 'Mttp',  
'Nsdhl', 'F5', 'Gstp3', 'Cyp4a14', 'Mien1', 'F13b', 'Grn', 'Ly6d', 'Ywhaz',  
'Afp', 'Prtn3', 'Gadd45g', 'Lpl', 'Steap4', 'Serpina6', 'H6pd', 'Rnf149',  
'Lpin2', 'Stmn1']

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Zfpm1

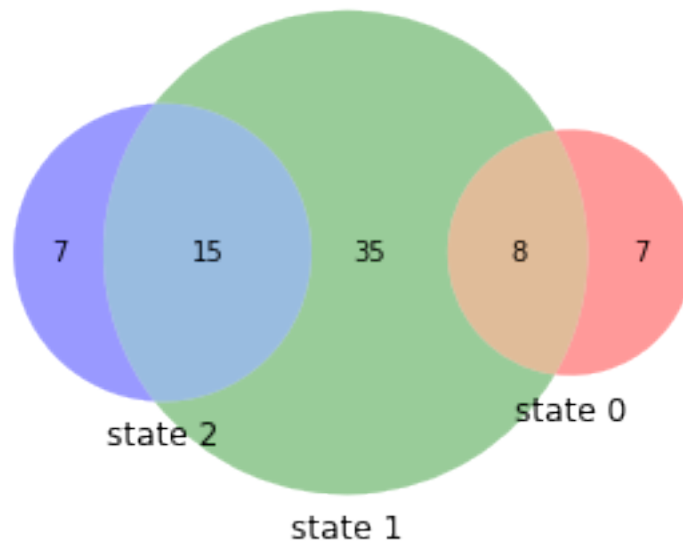


intersected genes of three states:

```
['Ddx3y', 'Smlr1', 'Ube2r2', 'Elovl5', 'Saa3', 'Abhd2', 'Aplp2', 'Mup18',
'Hypk', 'Dgat2', 'Hba-a1', 'Hba-a2', 'Snrpg', 'Mia3', 'Gk', 'Acadsb', 'Mttp',
'Cltc', 'Tomm20', 'Gstp3', 'Cdkn1c', 'F13b', 'Por', 'Ube2l6', 'Atp2a2', 'Psap',
'Tmed5', 'Sdc2', 'Ugt2b35', 'Serpina6', 'Hsd3b5']
```

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Tcf25

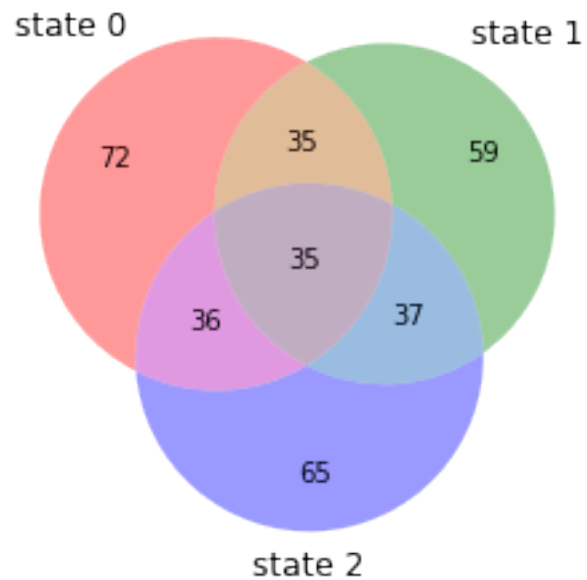


intersected genes of three states:

[]

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Thrb

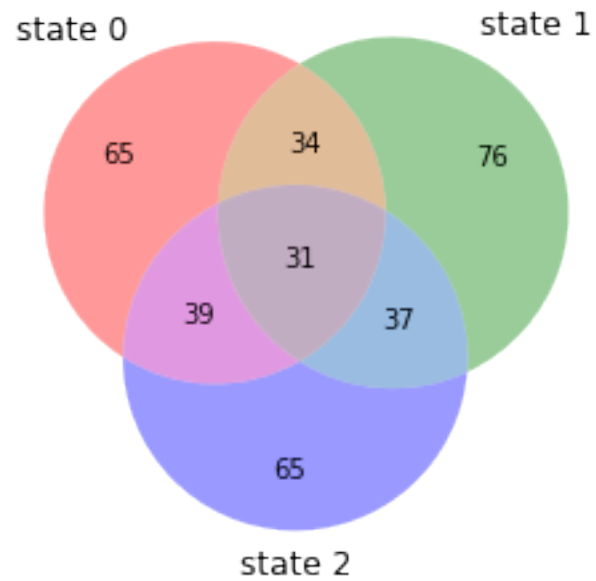


intersected genes of three states:

```
['C6', 'Acs14', 'Lipa', '2200002D01Rik', '1300017J02Rik', 'Cyp4a12a', 'Gm4952',  
'Hbb-bt', 'Rpn1', '1110008P14Rik', 'Slc16a2', 'Mia3', 'Slc35d1', 'Mettl7a1',  
'Hsd17b12', 'Acadsb', 'Neat1', 'Srsf3', 'Aldh9a1', 'F5', 'Atp11c', 'Cfhr1',  
'Xiap', 'Ly6d', 'Akr1c19', 'Cmah', 'Sdc2', 'Ugdh', 'Ugt3a2', 'Tuba4a',  
'Gadd45g', 'Cst3', 'Serinc3', 'Lpin2', 'Defb1']
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Nr1d2

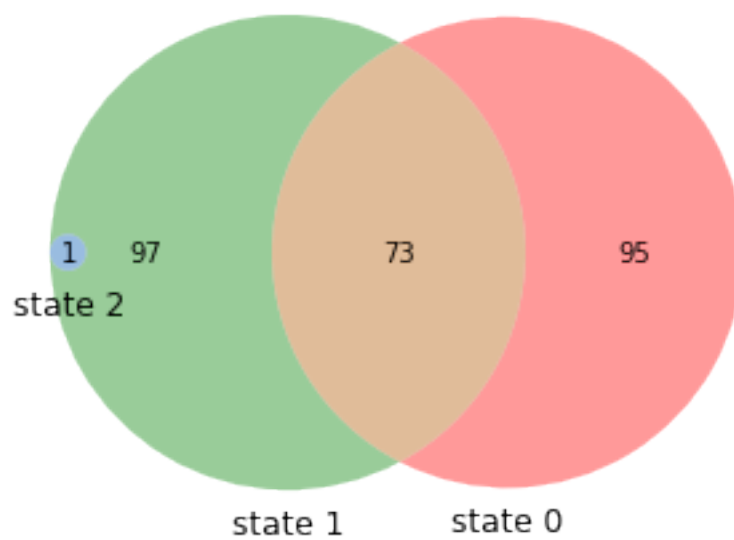


intersected genes of three states:

```
[ 'Mup9', '2200002D01Rik', 'Abcc2', 'Cyp2c67', 'Slc38a3', 'Ube2s', 'Saa3',
  'Alas2', 'I11rap', 'Slc39a14', 'Mia3', 'Dcaf11', 'Slc35d1', 'Tuba1b',
  'Hsd17b12', 'Adh4', 'Cdk2ap2', 'Cyp4a14', 'Cyp2d10', 'Ccnd1', 'Tfr2', 'Grn',
  'Apol9a', 'Ptprf', 'Serinc1', 'Ugt2b35', 'Prtn3', 'Crip2', 'Pdia6', 'Rpn2',
  'Hao2']
```

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Pbrm1



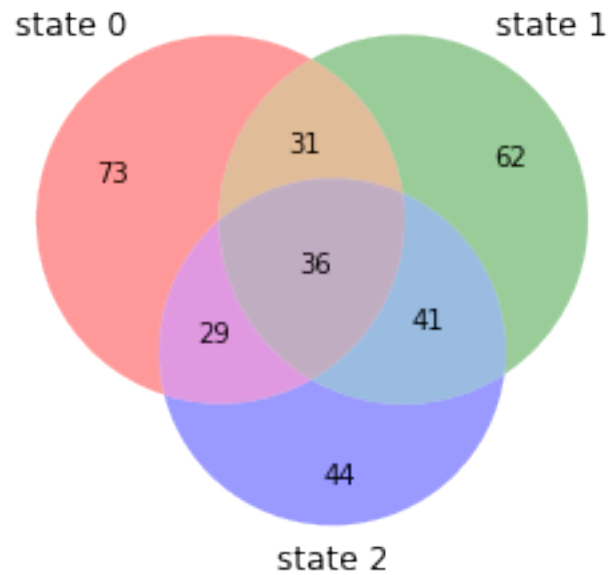


intersected genes of three states:

[]

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Tox4



intersected genes of three states:

['C6', 'Mup9', 'Ube2r2', 'Hamp2', 'Clec2d', 'Mup18', 'Mup21', 'Cyp4a12a',  
'Selenot', 'Hba-a1', 'Rpn1', 'Gm2a', 'Tgoln1', 'Mia3', 'Ces3b', 'Acadsb',  
'Neat1', 'Nme2', 'Cdk2ap2', 'Cyp4a14', 'Cpt1a', 'Tfr2', 'F13b', 'Grn', 'Aars',  
'Dpyd', 'Amfr', 'Sdc2', 'Ugt3a2', 'Gadd45g', 'Raph1', 'Txnrd1', 'Serinc3',  
'Ddi2', 'Tmem19', 'Hsd3b5']

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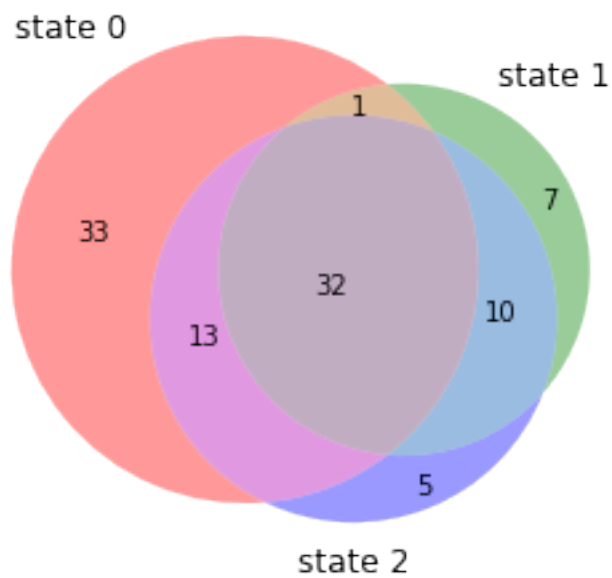
Irf9



intersected genes of three states:

```
['Lipa', 'Sult2a2', 'Acss2', 'Aqp9', 'Elovl5', 'Cyp2c37', 'Sult2a6', 'Slc27a5',
'Nlrp12', 'Alas2', 'Abhd2', 'Gm4952', 'Ces3b', 'Tuba1b', 'Fkbp11', 'Grn',
'Lman1', 'Ly6d', 'Fech', 'Mtss1', 'Fasn', 'Dnajc12', 'Cdc34', 'Gadd45g', 'Cst3',
'Slc25a4', 'Steap4', 'Iqgap2', 'Lpin1', 'Defb1', 'Hsd3b5', 'Hao2']
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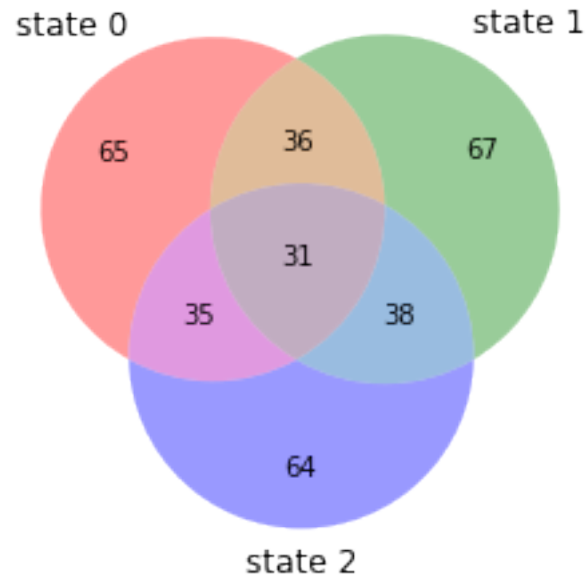
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Tsc22d1



intersected genes of three states:

```
['Lrp1', 'Abcc2', 'Cyp2c23', 'Cyp2a12', 'Gys2', 'Oaf', 'Pnpla7', 'Hspa8',
'Mup21', 'Krt18', 'Krt8', 'Rarres2', 'Dhcr24', 'F5', 'Cyp4f14', 'Cyb5r3',
'Cd81', 'Cdkn1c', 'Acly', 'Tmed2', 'H3f3b', 'Sds', 'Kynu', 'Akr1c6', 'Hsd17b13',
'Hdlbp', 'Mrpl14', 'Igfbp2', 'Acs11', 'Slc7a2', 'Ddi2', 'Haao']
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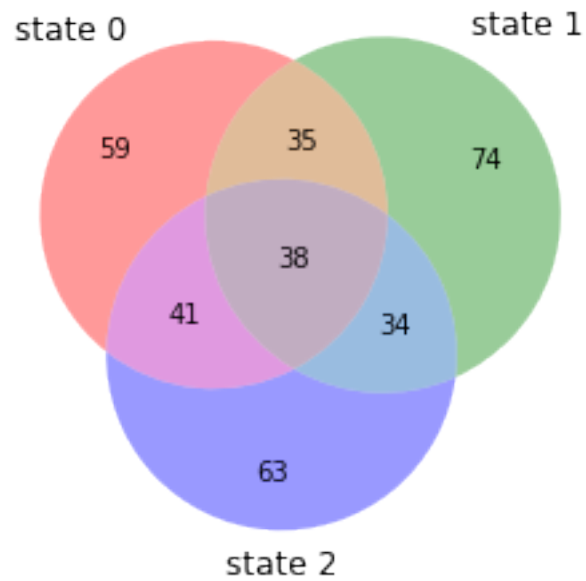
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Elf1



intersected genes of three states:

```
['2200002D01Rik', '1810022K09Rik', 'Aqp9', 'Hamp2', 'Cyp2c37', 'Sult2a6',
'Cpn2', 'Abhd2', 'Cyp4a12a', 'Sar1b', 'Gk', 'Fkbp11', 'Dph3', 'Acadsb', 'Zcrb1',
'Atp11c', 'Polr21', 'Cyp4a14', 'Cpt1a', 'Tfr2', 'Ptpfr', 'Psap', 'Deptor',
'Tmed5', 'Col18a1', 'S100a9', 'Ugt3a2', 'Cst3', 'Snrpf', 'Lpin2', 'Hsd3b5']
```

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Klf12



intersected genes of three states:

```
['C6', 'Sult2a2', 'Acss2', 'Mup9', 'Cyp1a2', 'Slc27a5', 'Prdx4', 'Surf4',
'Nlrp12', 'Slc2a2', 'Clec2d', 'Hba-a1', 'Gm4952', '1110008P14Rik', 'Tgoln1',
'Mia3', 'Ctsb', 'Ces3b', 'Slc35d1', 'C8b', 'Tuba1b', 'Nsdhl', 'Vmp1', 'Pcx',
'Gstp3', 'Cyp4a14', 'Cpt1a', 'Tmprss6', 'Ldhd', 'Aars', 'Ly6d', 'Fech', 'Afp',
'Ugt2b1', 'Ugt3a2', 'Steap4', 'H6pd', 'My112b']
```

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Dnmt1

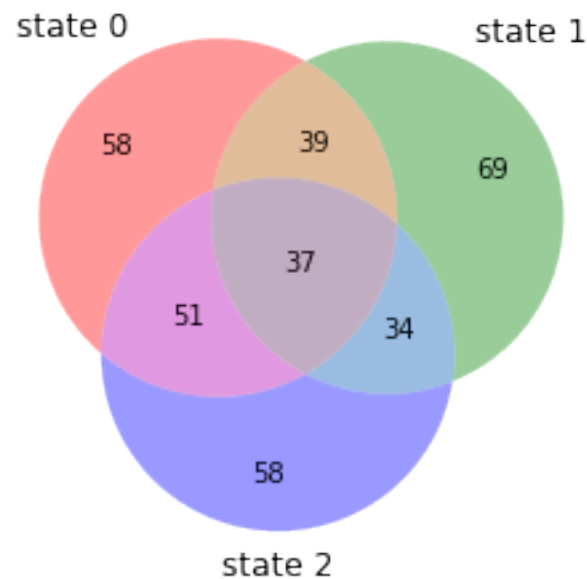


intersected genes of three states:

```
['Acss2', 'Mup9', 'Cyp1a2', 'Cyp2c37', 'Sult2a6', 'Prdx4', 'Saa3', 'Gys2',
'Cpn2', 'Alas2', 'Clec2d', 'Abhd2', 'Mup21', 'Adipor2', 'Gm4952', 'Sar1b',
'Abat', 'Mia3', 'Slc22a30', 'Slc35d1', 'Dad1', 'Mettl7a1', 'Zcrb1', 'Tob1',
'Cyp4a14', 'Amfr', 'Mut', 'Afp', 'Ugt2b35', 'Ugt3a2', 'Srp19', 'Serinc3',
'Tmem19']
```

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Zbtb44

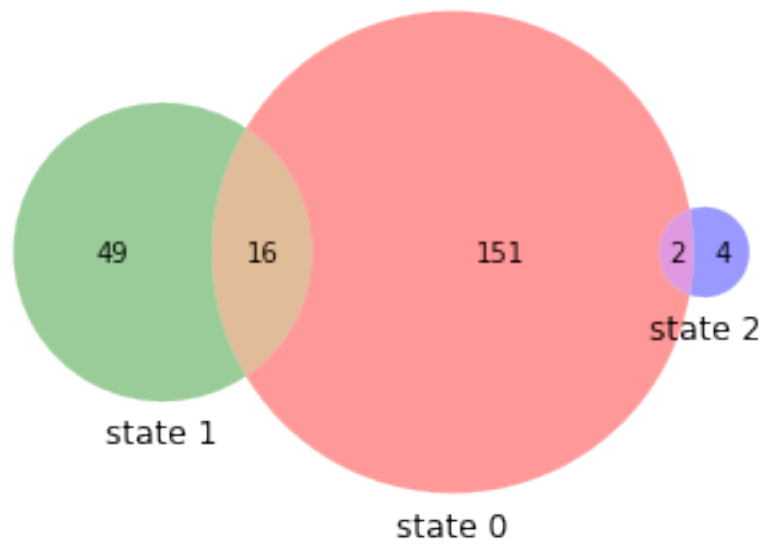


intersected genes of three states:

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['Fam32a', 'C6', 'Ddx3y', 'Zbtb8os', 'Acsl4', 'Lipa', 'Acss2', 'Aqp9', 'Me1',
'Cyp2c37', 'Ogdh', 'Gfer', 'Bola2', 'Hsd17b12', 'Neat1', 'Aass', 'Hras',
'Cyp2d10', 'Tfr2', 'Xiap', 'Apol9b', 'Apol9a', 'Ube2l6', 'Ywhaz', 'Gpt2',
'Ugt2b35', 'F12', 'Tmem243', 'Serpina6', 'Serpina10', 'Man2a1', 'Serinc3',
'Gsr', 'Lpin2', 'Laptm4a', 'Hsd3b5', 'Snrpd1']
```

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Rora

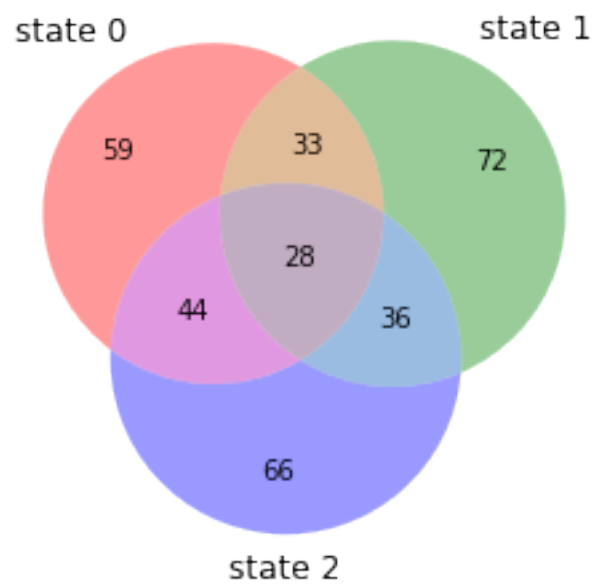


intersected genes of three states:

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Onecut1



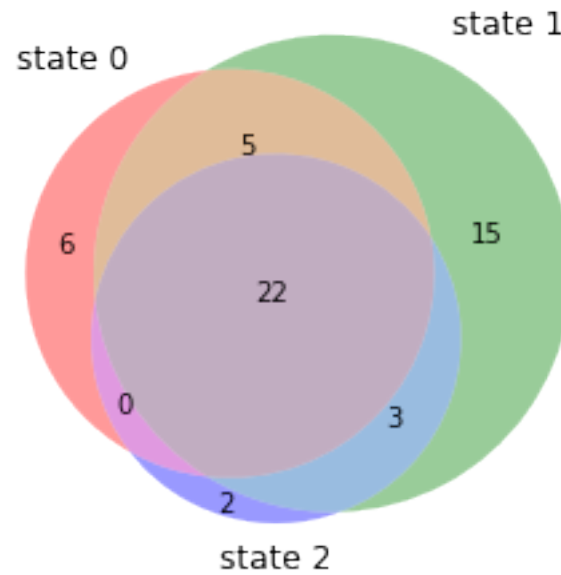
intersected genes of three states:

['C6', 'Mup9', 'Abcc2', 'Aco1', 'Me1', 'Pnrc1', 'Pdcd4', 'Nlrp12', 'Saa3',

'Il1rap', 'Cyp4a12a', 'Ces3b', 'Slc35d1', 'Neat1', 'Cyp4a14', 'Tfr2', 'Grn',  
 'Apol9a', 'Atp2a2', 'Ly6d', 'Tmem56', 'Tmed5', 'Ywhaz', 'S100a9', 'Lifr',  
 'Cers2', 'Rpn2', 'Stmn1']

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Tfdp2

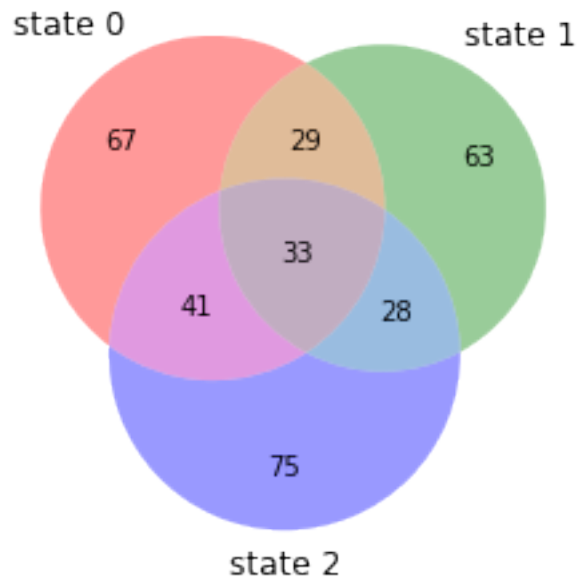


intersected genes of three states:

['Hamp2', 'Cox5a', 'Tma7', 'Ak3', 'Mug1', 'Leap2', 'Cox7b', 'Gm2a', 'Sppl2a',  
 'Fkbp11', 'Lgals9', 'Elov13', 'Psmb3', 'Por', 'Gabarapl2', 'Hspb8', 'P4hb',  
 'Dynl11', 'Lap3', 'Lifr', 'Atp5g3', 'Sdc1']

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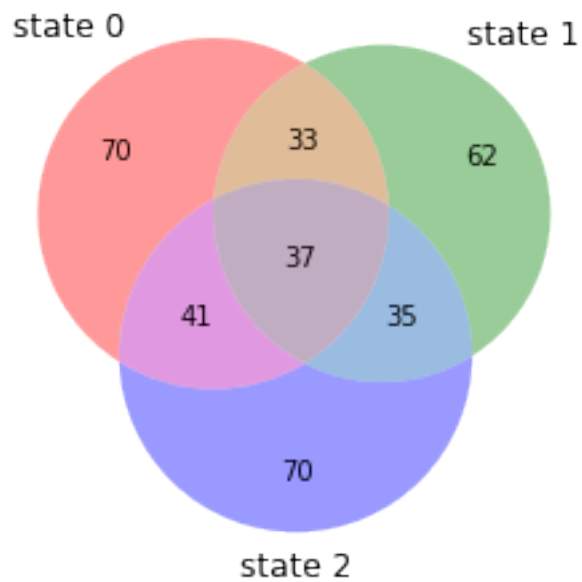
Zbtb38



intersected genes of three states:

```
['C6', 'Aqp9', 'Surf4', 'Saa3', 'Il1rap', 'Anxa5', 'Mup12', 'Ogdh', 'Adipor2',
'Rpn1', 'Slc39a14', 'Ces3b', 'Gk', 'Fkbp11', 'Mttp', 'Nsdhl', 'Tob1', 'Cyp2d10',
'Ube2l6', 'Ly6d', 'Deptor', 'Hsd17b13', 'Cxcl1', 'Afp', 'Ugt2b35', 'Tubb2a',
'Ugt3a2', 'Cst3', 'Slc25a4', 'Klkb1', 'Serinc3', 'Snrpf', 'Abcb11']
```

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Smarcc1





intersected genes of three states:

```
['Lipa', 'Larp4b', 'Sult2a2', '1810022K09Rik', 'Tmem147', 'Pdcd4', 'Ube2s',
'Nlrp12', 'Alas2', 'Abhd2', 'Mup14', 'Hypk', 'Nat8f1', 'Tgoln1', 'Arl6ip1',
'Tuba1b', 'Fkbp11', 'Mttp', 'Cdkn1c', 'Qsox1', 'F13b', 'Por', 'Xiap',
'Gabarapl2', 'Ier3ip1', 'Akr1c19', 'Tmem56', 'Tmed5', 'Ugt2b35', 'Ugt3a2',
'F12', 'Slc25a4', 'Cyp51', 'Ragef4', 'Btg1', 'Defb1', 'Lypla1']
```

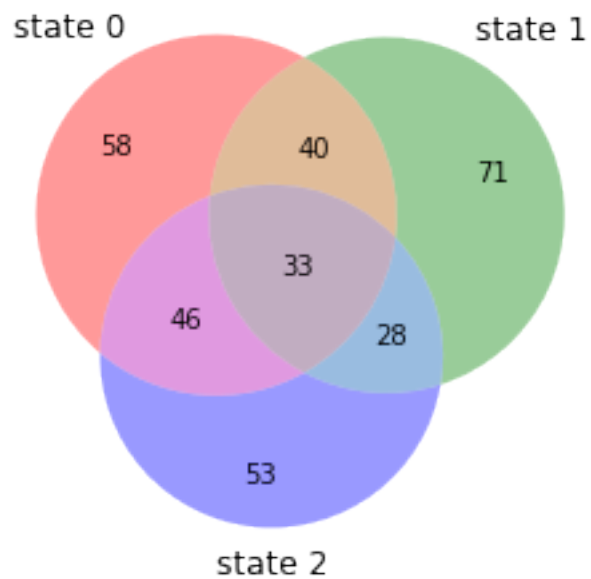
-----  
Lrrfip2



intersected genes of three states:

```
['Lrp1', 'Abcc2', 'Hoga1', 'Hamp2', 'Me1', '1300017J02Rik', 'Sult2a6', 'Mup12',
'Mup14', 'Gm4952', 'Slc39a14', 'Cyp2j5', 'Mia3', 'C8b', 'Neat1', 'Itih1',
'Mttp', 'Atp11c', 'Pcx', 'Cyp4f14', 'Cyp2d10', 'Tfr2', 'G6pc', 'Xiap', 'Mtss1',
'Mut', 'Col18a1', 'Gadd45g', 'Ifi27', 'Serinc3', 'Myl12b', 'Rpn2']
```

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Ubp1

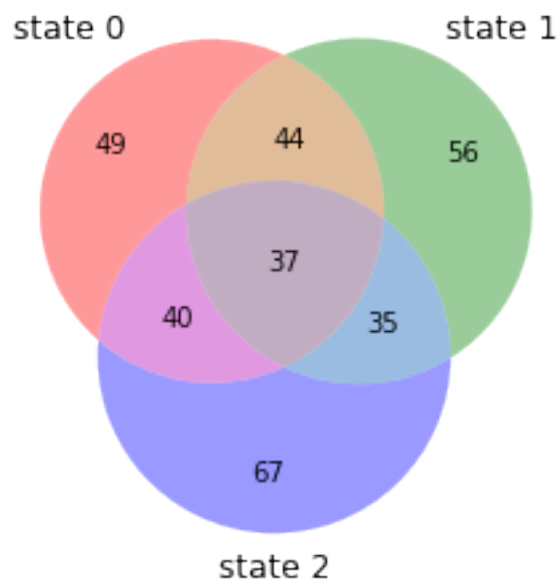


intersected genes of three states:

```
['C6', 'Larp4b', 'Sult2a2', 'Acss2', 'Fam96a', 'Cyp2c23', 'Prodh2', 'Aco1',
'Me1', 'Pnrc1', 'Saa3', 'Alas2', 'Abhd2', 'Mup14', 'Hba-a1', 'Slc39a14',
'Nat8f1', 'Gm2a', 'Copa', 'Akr1d1', 'Cyp4f14', 'Elov13', 'Grn', 'Cd164',
'Ddx3x', 'Afp', 'Prtn3', 'Ugt3a2', 'Serpina6', 'Serinc3', 'Defb1', 'Rpn2',
'Tmem19']
```

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Csrnp1

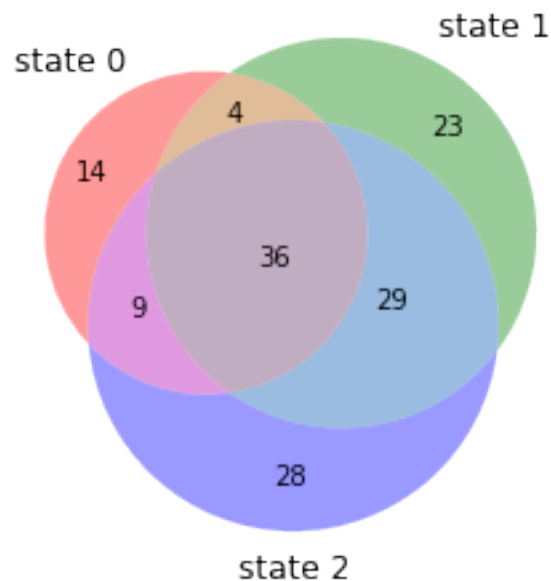


intersected genes of three states:

```
['Ssr1', 'Sult2a2', 'Acss2', 'Fam96a', 'Abcc2', 'Ube2r2', 'Pnrc1', 'Cyp2c37',
'Sult2a6', 'Ube2s', 'Alas2', 'Clec2d', 'Cib1', 'Cyp4a12a', 'Aldh1a7', 'Selenot',
'Hba-a1', 'Rpn1', 'Slc16a2', 'Cela1', 'Bola2', 'Hsd17b12', 'Neat1', 'Cyp4a14',
'Lman1', 'Akr1c19', 'Mut', 'Gadd45g', 'F12', 'Slc25a4', 'Serinc3', 'H6pd',
'Ragef4', 'Defb1', 'Prkd3', 'Hsd3b5', 'Hao2']
```

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Xbp1



intersected genes of three states:

```
['C6', 'Ube2r2', 'Hoga1', 'Prodh2', 'Pgaml', 'Tm9sf3', 'Anp32a', 'Cyp2c50',
'1300017J02Rik', 'Fam162a', 'Il1rap', 'Igfbp1', 'Nhp2', 'Lpgat1', 'Angptl3',
'Tgoln1', 'Acadvl', 'Gch1', 'Atp11c', 'Hc', 'Pcx', 'Taldo1', 'Ndufa8', 'Cfhr1',
'Lamp2', 'H2-D1', 'Gpt2', 'Bph1', 'Psm4', 'Cst3', 'Crip2', 'Serpina3m',
'Ssu72', 'Sdc4', 'Slc10a1', 'Tspan31']
```

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Purb

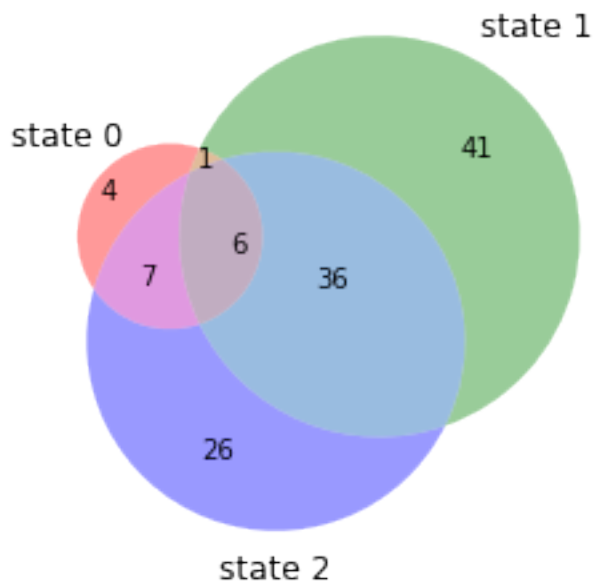


intersected genes of three states:

```
['Fam32a', 'Sult2a2', 'Lrp1', 'Ube2r2', 'Hamp2', 'Cyp2c37', 'Cyp2c67', 'Rdx',
'Prdx4', 'Nlrp12', 'Gys2', 'Clec2d', 'Abhd2', 'Cyp4a12a', 'Dgat2', 'Nat8f1',
'Gm2a', 'Gfer', 'Sppl2a', 'Atp6v0e', 'Fkbp11', 'Copa', 'Srsf3', 'Itih1',
'Aldh9a1', 'Nsdhl', 'Ccnd1', 'Cpt1a', 'Mtss1', 'Mut', 'Spp2', 'Ugt2b35',
'S100a9', 'Bst2', 'Msmo1', 'Txnrd1', 'Slc25a4', 'H6pd', 'Defb1', 'Tmem19']
```

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Srebf1

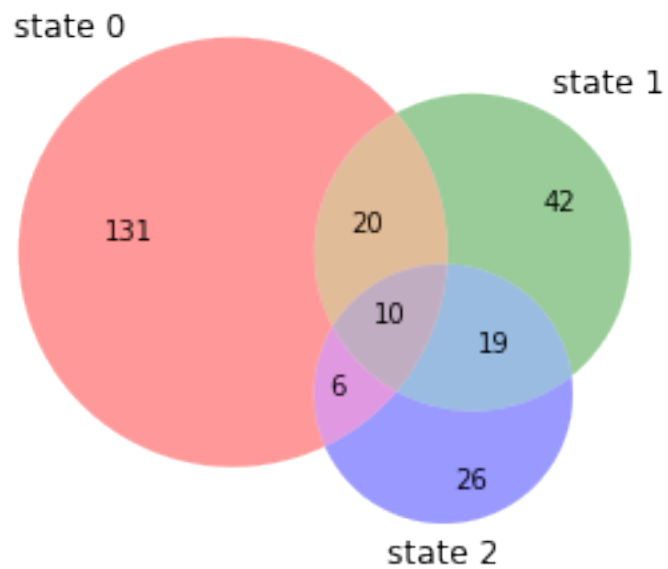


intersected genes of three states:

['Rpl22l1', 'Copa', 'Atp5a1', 'Ier3ip1', 'Herpud1', 'Myo1b']

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Ncor1



intersected genes of three states:

['Cyp2c67', 'Acbd5', 'Gm2a', 'Ube2l6', 'Fasn', 'Gpt2', 'Gsr', 'Rapgef4', 'Prkd3', 'Psma6']

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Hlf

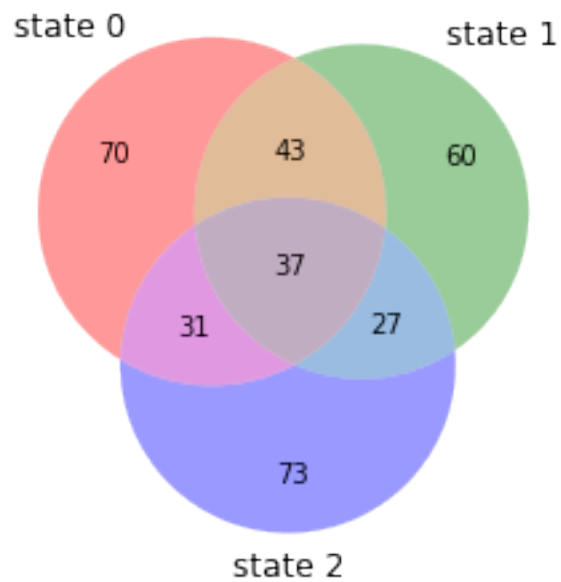


intersected genes of three states:

```
['Ddx3y', 'Sult2a2', 'Acss2', 'Lrp1', 'Hamp2', 'Cyp2c37', 'Sult2a6', 'Hrg',
'Clec2d', 'Hba-a2', 'Hbb-bt', 'Slc16a2', 'Hsd17b12', 'Cpt1a', 'Ldhd', 'Ly6d',
'Fasn', 'Psap', 'Slc17a2', 'Afp', 'Elov12', 'Ugt3a2', 'Klkb1', 'Myo1b',
'Serpina6', 'Serinc3', 'Btg1', 'Defb1', 'Hao2']
```

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Nfe2l1

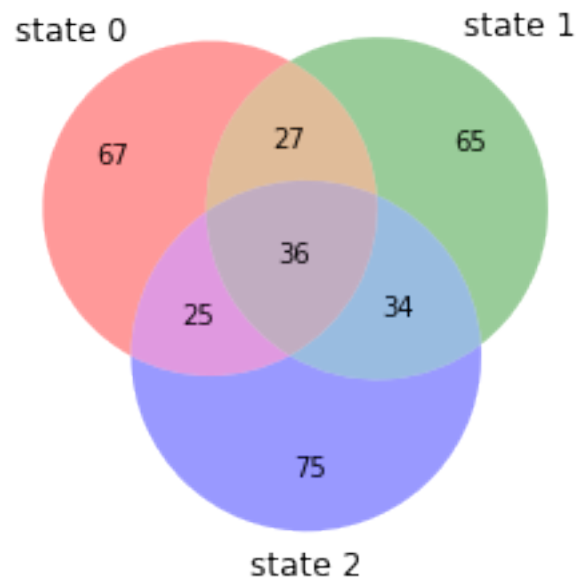


intersected genes of three states:

```
['C6', 'Acsl4', 'Lipa', 'Sult2a2', 'Mup9', 'Prodh2', 'Gys2', 'Cpn2', 'Mup18',
'Cyp4a12a', 'Gm4952', 'Rpn1', 'Tgoln1', 'Mrpl57', 'Arl6ip1', 'Slc22a30',
'Tmem176a', 'Fkbp11', 'Acadsb', 'Ndufv1', 'Cyp4a14', 'Cpt1a', 'Tfr2', 'Grn',
'Dnajc12', 'Cxcl1', 'Afp', 'S100a9', 'Cdc34', 'Cst3', 'Cers2', 'Rnf149', 'Btg1',
'Defb1', 'Tmem19', 'Tram1', 'Erh']
```

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Nr1d1

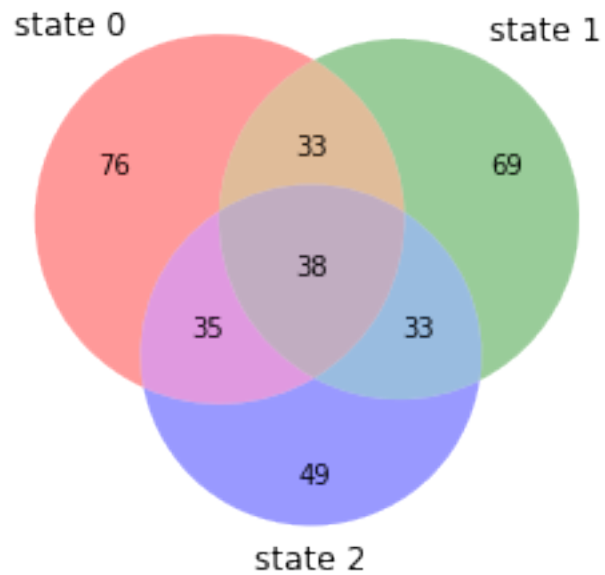


intersected genes of three states:

```
['C6', 'Ddx3y', 'Mup9', 'Lrp1', 'Abcc2', '1810022K09Rik', 'Sult2a6', 'Surf4',
'I11rap', '1810008I18Rik', 'Pdia3', 'Gm4952', 'Rpn1', 'Slc39a14', 'Ces3b',
'C8b', 'Hsd17b12', 'Acadsb', 'Neat1', 'Vmp1', 'Atp11c', 'Cyp2d10', 'Cdkn1c',
'Ly6d', 'Mtss1', 'Hsd17b13', 'Slc17a2', 'Ugt2b35', 'Ugt2b1', 'S100a9', 'Ugt3a2',
'Slc25a4', 'H6pd', 'Defb1', 'Proz', 'Prkd3']
```

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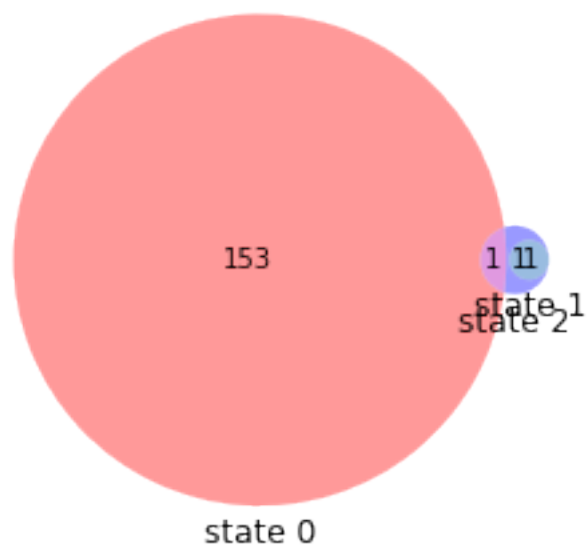
Rara



intersected genes of three states:

```
['C6', 'Ddx3y', 'Sult2a2', 'Acss2', 'Hamp2', 'Tmem30a', 'Pnrc1', 'Cyp2c67',
'Sult2a6', 'Nlrp12', 'Gys2', 'Abhd2', 'Eif4g1', 'Mup14', 'Selenot', 'Slc39a14',
'Ces3b', 'Gjb1', 'Hsd17b12', 'Adh4', 'Mtp', 'Cltc', 'Atp11c', 'Nme2', 'Por',
'Apol9b', 'Ptrpf', 'Lman1', 'Fasn', 'Afp', 'Sdc2', 'Ugt2b35', 'S100a9', 'Lifr',
'Ssu72', 'Man2a1', 'Tmem19', 'Abcb11']
```

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Smarce1



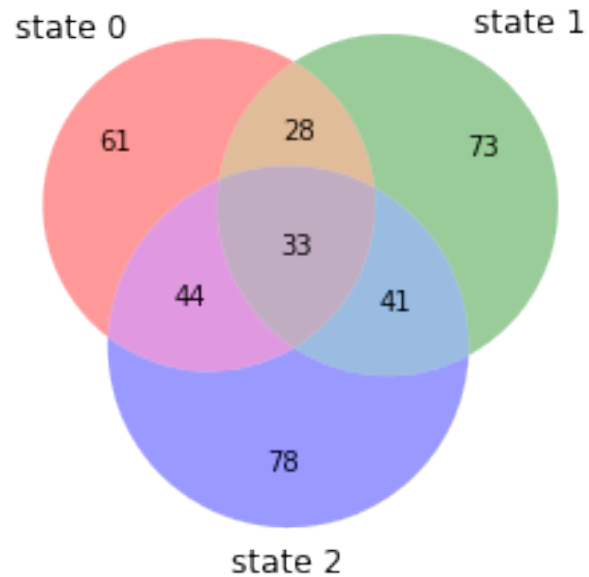


intersected genes of three states:

[]

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Stat5b

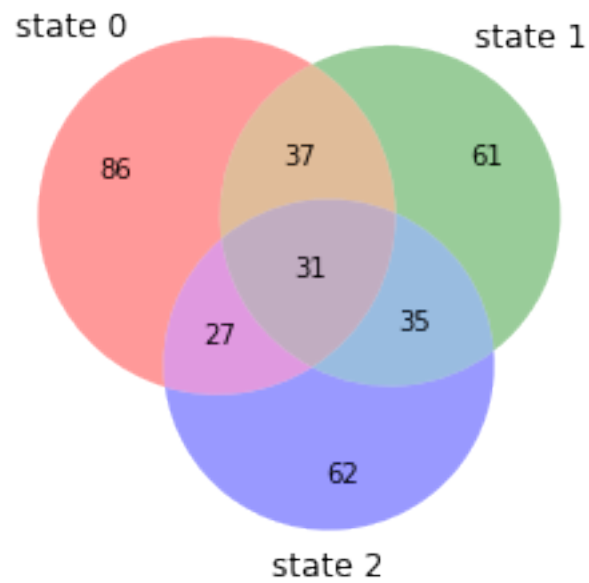


intersected genes of three states:

['C6', 'Sult2a2', 'Mup9', '2200002D01Rik', '1810022K09Rik', 'Me1', 'Slc2a2',  
'1810008I18Rik', 'Gabarapl1', 'Clec2d', 'Abhd2', 'Eif4g1', 'Keg1', 'Rpn1',  
'1110008P14Rik', 'Tgoln1', 'Ces3b', 'Mettl7a1', 'Tuba1c', 'Bola2', 'Tob1',  
'Ccnd1', 'Cpt1a', 'Cfhr1', 'Ube2l6', 'Man1a', 'Mut', 'Afp', 'Ugt3a2', 'Txnrd1',  
'Ftl1-ps1', 'Serinc3', 'Defb1']

-----

Stat3

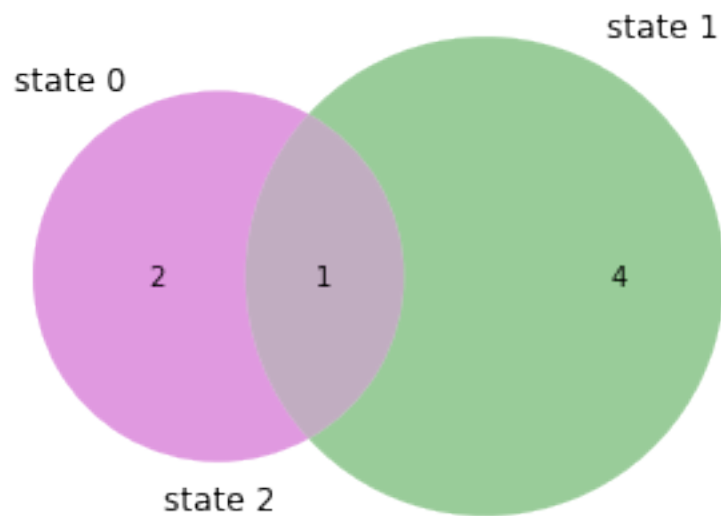


intersected genes of three states:

['C6', 'Ddx3y', 'Sult2a2', 'Abcc2', 'Polr2i', 'Hamp2', 'Pnrc1', 'Cyp2c37',  
 'Ube2s', 'Gys2', 'Anxa5', 'Mup12', 'Timm10b', 'Tgoln1', 'Ctsb', 'Copz1',  
 'Neat1', 'Srsf3', 'Mttp', 'Gabarapl2', 'Grn', 'Ube2l6', 'Ddx3x', 'Ly6d',  
 'Rrbp1', 'S100a9', 'Ugdh', 'H6pd', 'Laptm4a', 'Defb1', 'Prkd3']

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Mlx

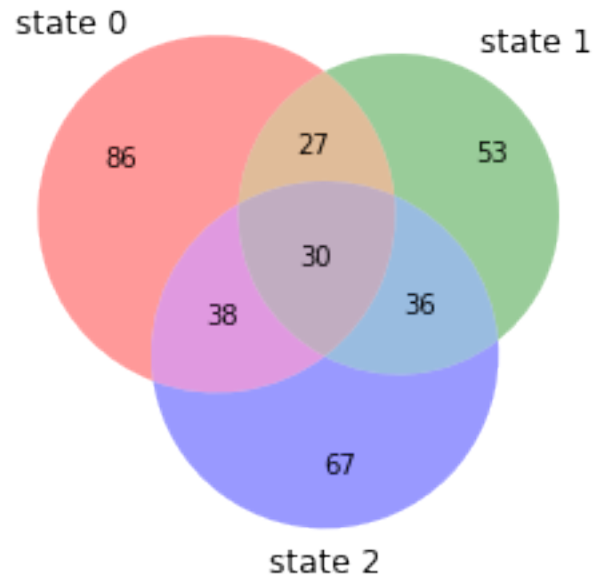


intersected genes of three states:

['Coa3']

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Ubtf



intersected genes of three states:

['Ddx3y', 'Sult2a2', 'Tmem147', 'Cyp7b1', 'Tmem30a', 'Slc27a5', 'Abhd14b',  
'Nlrp12', 'Il1rap', 'Mup12', 'Litaf', 'Nhpf2', 'Lpgat1', 'Mia3', 'Slc22a30',  
'Slc35d1', 'Atp6v0e', 'Fkbp11', 'Tob1', 'Cyp4a14', 'Cyp2d10', 'Ccnd1', 'Xiap',  
'Ldhd', 'Ywhaz', 'S100a9', 'Crip2', 'Srp19', 'Serpina6', 'Rpn2']

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Sox9

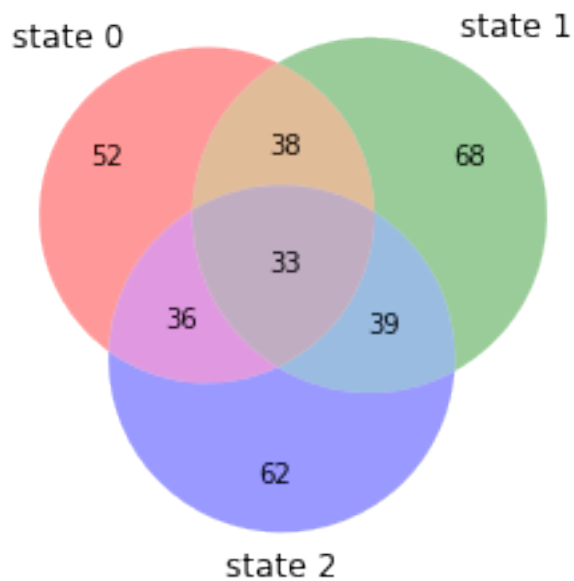


intersected genes of three states:

```
['Ddx3y', 'Acs14', 'Sult2a2', 'Aqp9', 'Me1', 'Sult2a6', 'Cbr1', 'Nlrp12',
'Abhd2', 'Mup14', 'Litaf', 'Slc39a14', 'Nat8f1', '1110008P14Rik', 'Atp6v0e',
'Dph3', 'Atp11c', 'Nme2', 'Cyp4a14', 'Por', 'Xiap', 'Grn', 'Apol9a', 'Serinc1',
'Fasn', 'Akr1c19', 'Tmed5', 'Ugt2b1', 'Lifr', 'Slc25a4', 'Cyp51', 'Atpif1',
'Serpina3m']
```

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Mafg

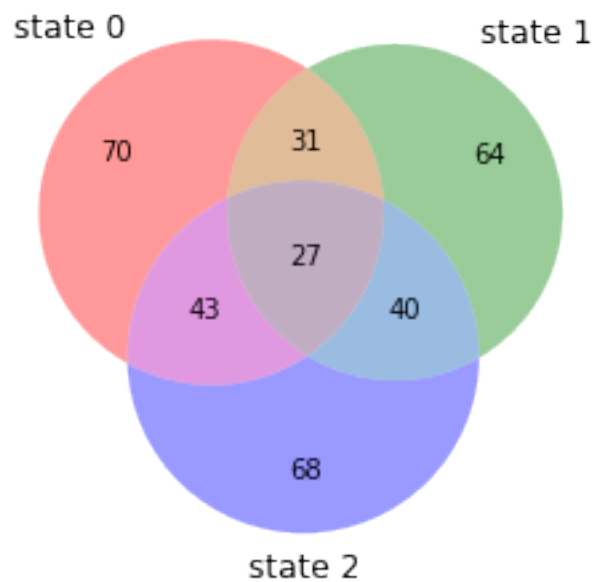


intersected genes of three states:

```
['Acss2', 'Bag1', 'Cyp2a12', 'Hamp2', 'Pnrc1', 'Sult2a6', 'Prdx4', 'Mup18',
'Ogdh', 'Hba-a1', 'Hsd11b1', 'Slc35d1', 'Mettl7a1', 'Atp6v0e', 'Fkbp11', 'Copa',
'Vmp1', 'Hras', 'Gm4788', 'Ube2l6', 'Ddx3x', 'Man1a', 'Fasn', 'Tmem56', 'Afp',
'Sdc2', 'Ugdh', 'Gadd45g', 'Raph1', 'Gsr', 'Proz', 'Hsd3b5', 'Snrpd1']
```

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Arid4b

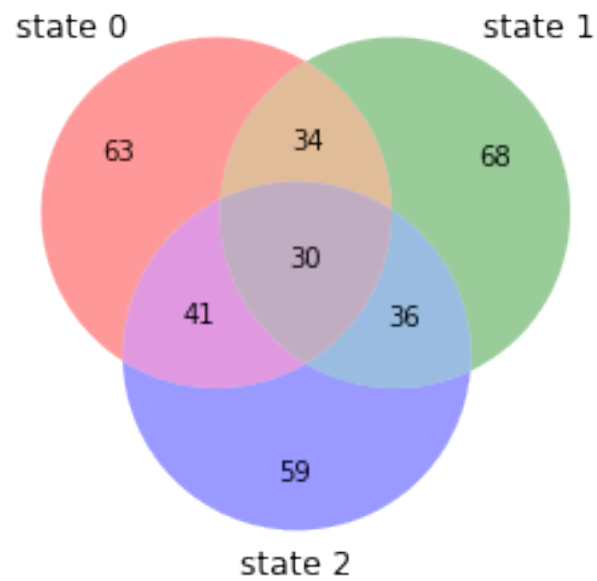


intersected genes of three states:

```
['Acss2', 'Lrp1', 'Prodh2', 'Pnrc1', 'Cyp2c37', 'Ube2s', 'Prdx4', 'Clec2d',
'Eif4g1', 'Commd3', 'Hba-a2', 'Gm4952', 'Tgoln1', 'Ces3b', 'Sppl2a', 'Tuba1b',
'Psm11', 'Tob1', 'G6pc', 'Xiap', 'Apol9a', 'Ube2l6', 'Pmvk', 'Ywhaz',
'Gadd45gip1', 'Ugt3a2', 'Rapgef4']
```

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Zkscan3

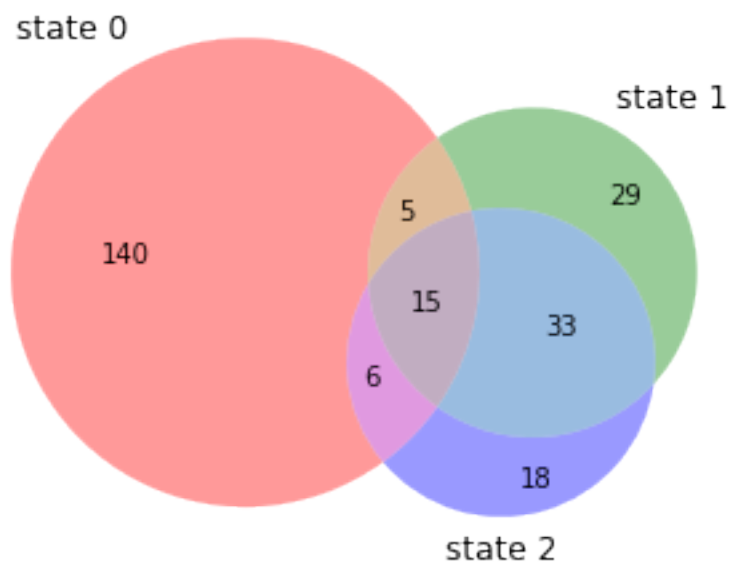


intersected genes of three states:

```
['Fam32a', 'Larp4b', 'Mup9', 'Sult2a6', 'Slc27a5', 'Nlrp12', 'Gys2', 'Litaf',
'Rpn1', 'Copa', 'Dph3', 'Zcrb1', 'Pipox', 'Mttp', 'Atp11c', 'Cyp2d26', 'Elov13',
'Cdkn1c', 'Por', 'Grn', 'Ptpfrf', 'Akr1c19', 'Mut', 'Ugt2b35', 'Prtn3', 'Atpif1',
'Serpina6', 'Man2a1', 'Defb1', 'Tmem19']
```

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Foxq1

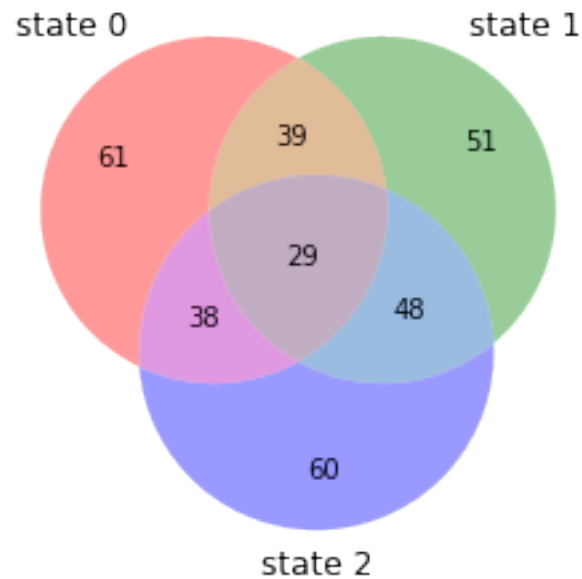


intersected genes of three states:

['Fam32a', 'Ube2r2', 'Pgam1', '1300017J02Rik', 'Fam162a', 'Baat', 'Abhd2',  
'Nop10', 'Gjb1', 'Gch1', 'Cmah', 'Acot13', 'H6pd', 'Lpin1', 'Snrpd1']

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Rreb1

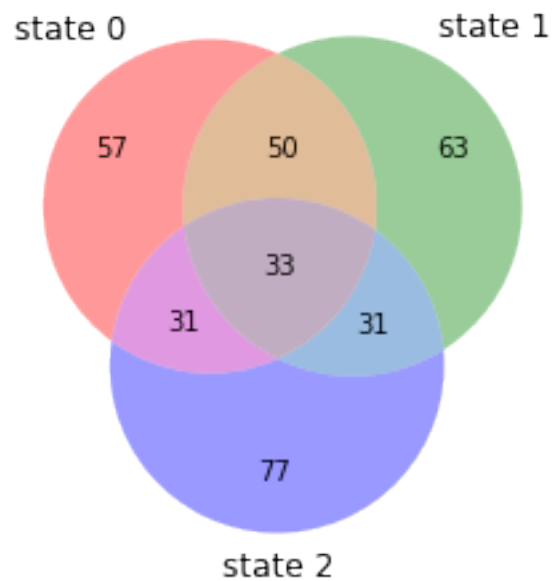


intersected genes of three states:

['Me1', '1300017J02Rik', 'Saa3', 'Acbd5', 'Aplp2', 'Cyp4a12a', 'Hba-a1',  
'Hba-a2', 'Abat', 'Nat8f1', 'Gm2a', 'Mia3', 'Tax1bp1', 'Slc35d1', 'Nsdhl',  
'Cltc', 'F5', 'Atp11c', 'Gstp3', 'Ier3ip1', 'Apol9a', 'Man1a', 'Mut', 'S100a9',  
'Ftl1-ps1', 'Srp19', 'Serinc3', 'Laptm4a', 'Tmem19']

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Mier3

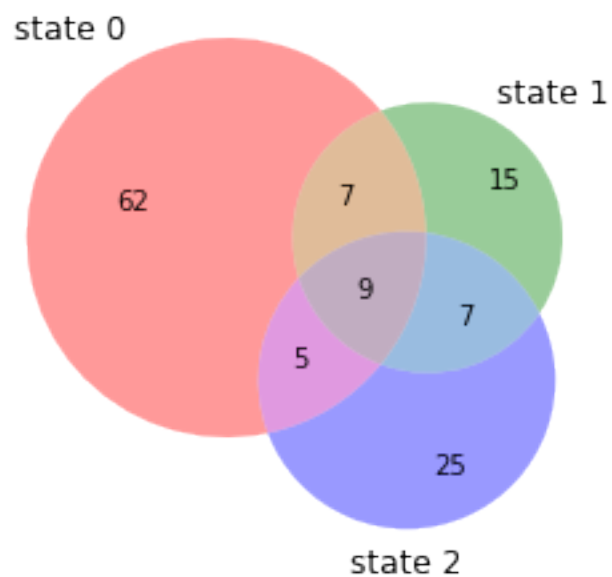


intersected genes of three states:

```
['C6', 'Ddx3y', 'Pnrc1', 'Cyp2c37', '1300017J02Rik', 'Cpn2', 'Gm4952', 'Gm2a',
'Mia3', 'Cela1', 'Tax1bp1', 'Mettl7a1', 'Mttp', 'Aass', 'Cyp4f14', 'Cyp4a14',
'Cyp2d10', 'Tfr2', 'Gm4788', 'Aars', 'Ube2l6', 'Atp2a2', 'Cd164', 'Ddx3x',
'Mtss1', 'Iscl', 'Lpl', 'Chpt1', 'Rnf149', 'Lpin2', 'Lpin1', 'Defb1', 'Rpn2']
```

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Id2



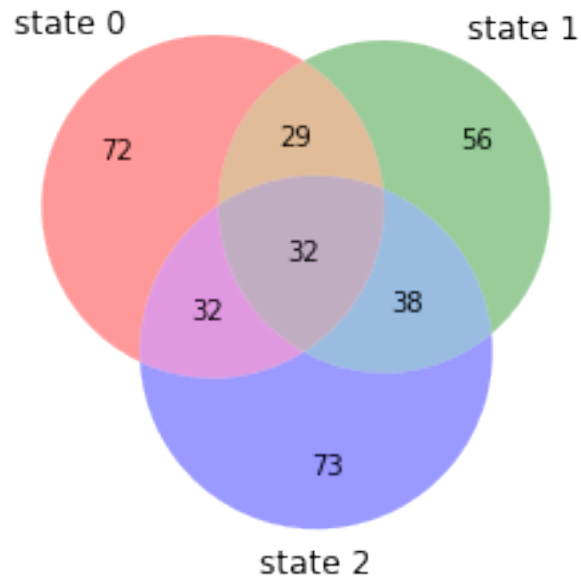


intersected genes of three states:

```
['Larp4b', 'Bag1', 'Sap18', 'Nsdhl', 'Sds', 'Ndufa11', 'Iqgap2', 'Ahcy',  
'Zfp3611']
```

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Hbp1

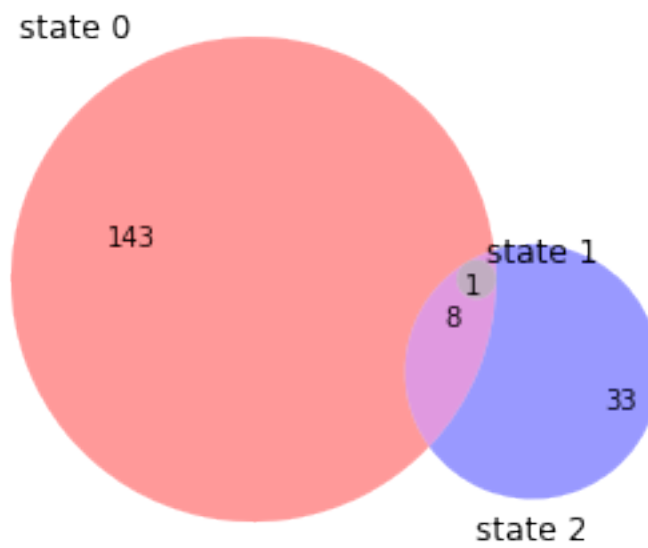


intersected genes of three states:

```
['C6', 'Lrp1', '2200002D01Rik', 'Aqp9', 'Snrpd2', '1300017J02Rik', 'Saa3',  
'Gys2', 'Anxa5', 'Eif4g1', 'Cyp4a12a', 'Hypk', 'Rpn1', 'Mia3', 'Bola2',  
'Hsd17b12', 'Neat1', 'Mttp', 'Ccnd1', 'F13b', 'Fabp2', 'Mut', 'Cmah', 'Ugt2b35',  
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Ahr

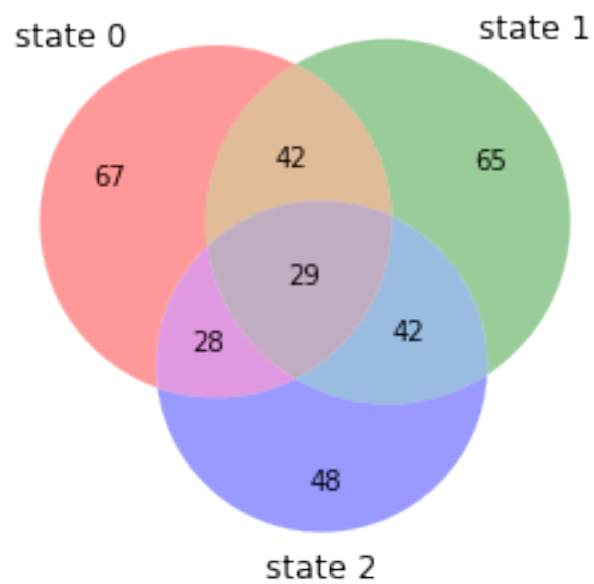


intersected genes of three states:

['Tuba4a']

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Nfkbia



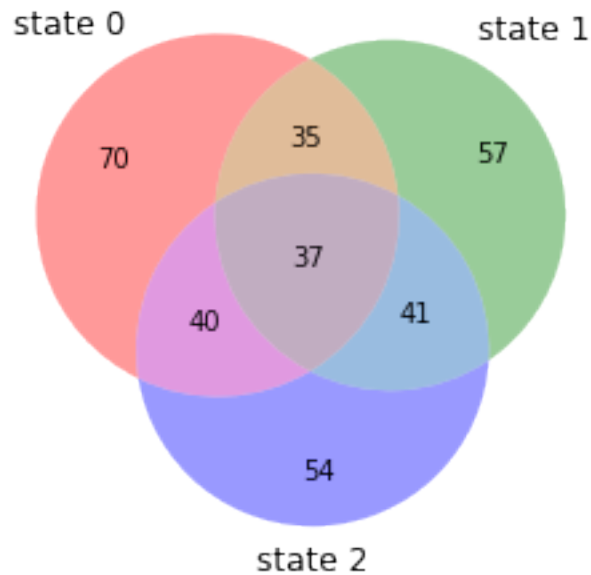
intersected genes of three states:

['C6', 'Zbtb8os', 'Acss2', 'Ube2r2', 'Prodh2', 'Cyp1a2', 'Sult2a6', 'Clec2d',

'Anxa5', 'Ogdh', 'Keg1', 'Hba-a2', 'Spcs2', 'Rpn1', 'Slc22a30', 'Cela1', 'Hc',  
 'Cyp4a14', 'Ccnd1', 'Tmprss6', 'Aars', 'Lman1', 'Ugt2b35', 'Gstm2', 'Serpina6',  
 'H6pd', 'Rnf149', 'Laptm4a', 'Prkd3']

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Foxa1

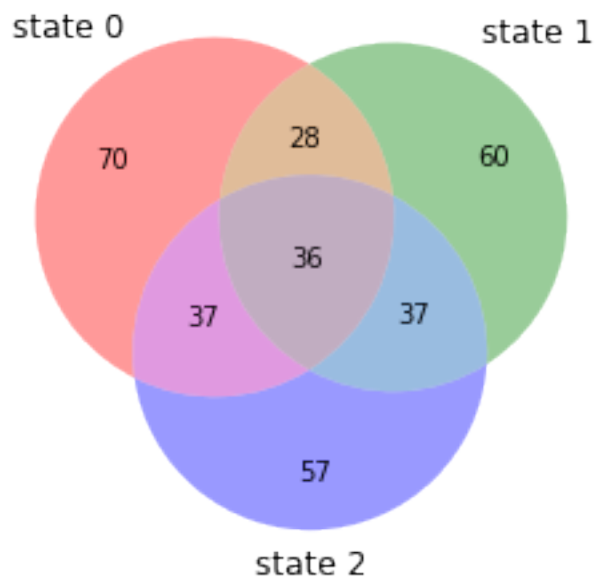


intersected genes of three states:

['C6', 'Hamp2', 'Tmem30a', 'Me1', 'Saa3', 'Gys2', 'Il1rap', 'Tubb4b', 'Abhd2',  
 'Mup21', 'Commd3', 'C1s1', 'Hba-a2', '1110008P14Rik', 'Leap2', 'Spp12a',  
 'Hsd17b12', 'Vmp1', 'Nme2', 'Tob1', 'Cyp4a14', 'Por', 'Ier3ip1', 'Atp2a2',  
 'Mtss1', 'Psap', 'Tmed5', 'Ywhaz', 'Afp', 'Ugt2b34', 'Sdc1', 'Lpin1', 'Pdia6',  
 'Stmn1', 'Prkd3', 'Hsd3b5', 'Csde1']

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Hif1a

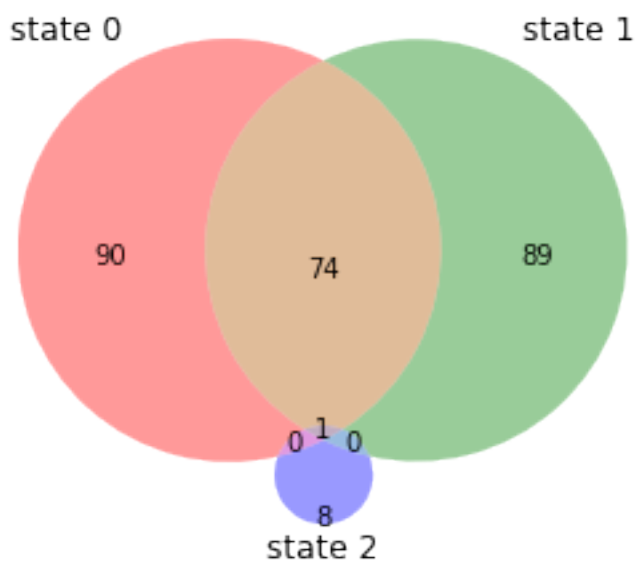


intersected genes of three states:

```
['C6', 'Sult2a2', 'Lrp1', 'Elov15', 'Me1', 'Cyp1a2', 'Surf4', 'Gys2', 'Clec2d',
'Selenot', 'Hba-a1', 'Hba-a2', '1110008P14Rik', 'Gm2a', 'Tgoln1', 'Selenof',
'Copa', 'Neat1', 'Adh4', 'Cyp4a14', 'Cpt1a', 'Cfhr1', 'F13b', 'Xiap', 'Ptprf',
'Mtss1', 'Slc17a2', 'Ugt2b35', 'Ugt3a2', 'Raph1', 'Serpina6', 'Serpina10',
'Rapgef4', 'Defb1', 'Hsd3b5', 'Lypla1']
```

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Foxn3

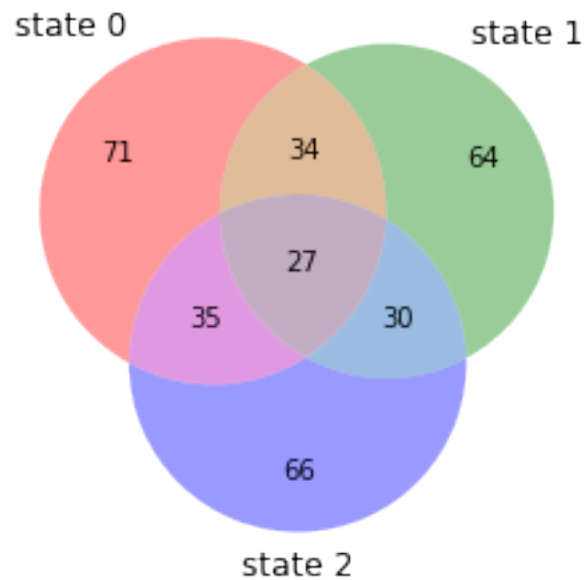


intersected genes of three states:

['Kynu']

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Yy1

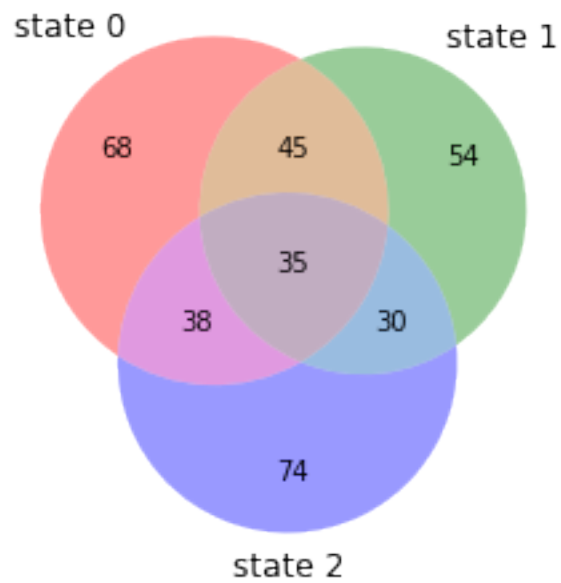


intersected genes of three states:

['C6', 'Mup9', 'Cyp2c67', 'Sult2a6', 'Cpn2', '1810008I18Rik', 'Ogdh', 'Hba-a2', 'Aass', 'Nme2', 'Tob1', 'Cyp4a14', 'Cdkn1c', 'Ccnd1', 'Grn', 'Apol9b', 'Atp2a2', 'Man1a', 'Serinc1', 'Afp', 'Prtn3', 'Ugt3a2', 'Gadd45g', 'Crip2', 'H6pd', 'Hao2', 'Tram1']

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Rcor1

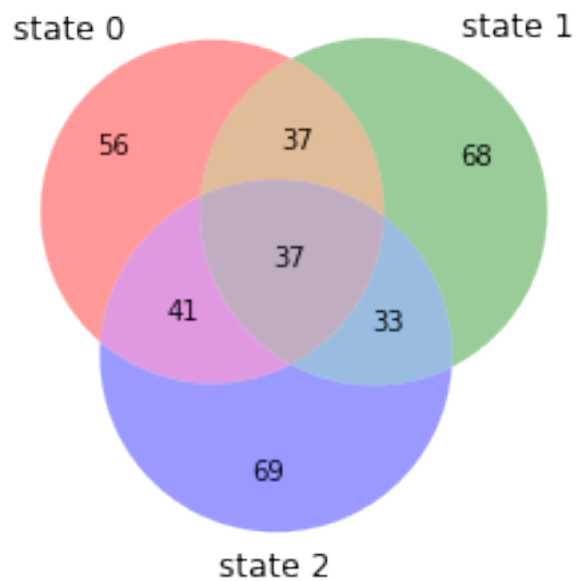


intersected genes of three states:

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['Fam32a', 'C6', 'Tmem30a', 'Cyp2c67', 'Pdcd4', '1300017J02Rik', 'Acad11',
'Ube2s', 'Saa3', 'Clec2d', 'Mup14', 'Ogdh', 'Selenot', 'Hba-a1', 'Gm4952',
'Slc16a2', 'Copz1', 'Slc22a30', 'Vmp1', 'Cyp4f14', 'Cyp4a14', 'G6pc', 'Ldhd',
'Aars', 'Psap', 'Cxcl1', 'Cmah', 'S100a9', 'Tmem14c', 'Slc25a4', 'Serpina6',
'H6pd', 'Defb1', 'Snrpd1', 'Zfp3611']
```

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Klf10

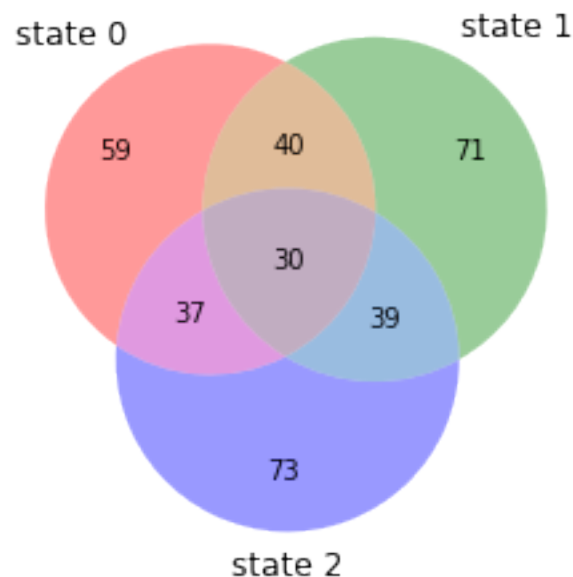


intersected genes of three states:

['Zbtb8os', 'Lipa', 'Sult2a2', 'Mup9', 'Hamp2', 'Cyp1a2', 'Cyp2c37', 'Sult2a6',  
 'Acad11', 'Acbd5', 'Anxa5', 'Mup18', 'Cyp4a12a', 'Litaf', 'Tgoln1', 'Mia3',  
 'Fkbp11', 'Copa', 'Neat1', 'F5', 'F13b', 'Grn', 'Ldhd', 'Ly6d', 'Man1a', 'Psap',  
 'Pbld1', 'Mut', 'Afp', 'S100a9', 'Gadd45g', 'Cers2', 'Ftl1-ps1', 'Serinc3',  
 'Rnf149', 'Stmn1', 'Hao2']

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Zhx1

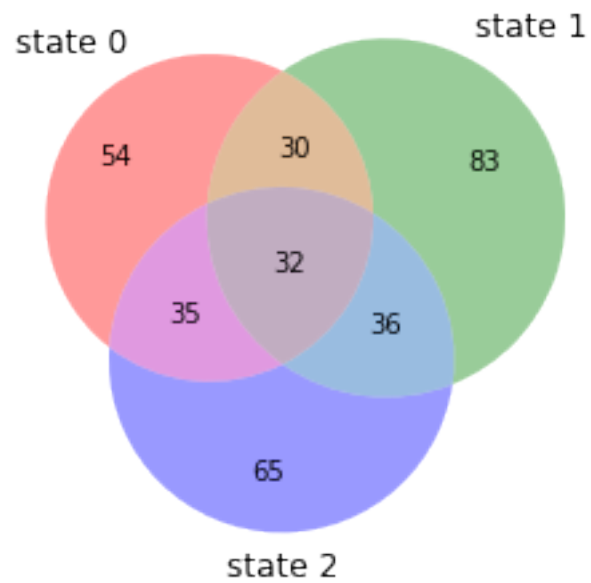


intersected genes of three states:

['Ssr1', 'Acss2', 'Chp1', 'Saa3', 'Mup18', 'Ufm1', 'Gm4952', 'Tmem258', 'Ces3b',  
 'Slc22a30', 'Tuba1b', 'Acadsb', 'Neat1', 'Mttp', 'Nme2', 'Cyp4a14', 'Cpt1a',  
 'F13b', 'Atp2a2', 'Slc9a3r1', 'Man1a', 'Fasn', 'F12', 'Serpina10', 'Man2a1',  
 'Serinc3', 'Lpin2', 'Defb1', 'Rpn2', 'Tmem19']

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Atf4



intersected genes of three states:

```
['Ssr1', 'Larp4b', 'Sult2a2', 'Acss2', 'Mup9', 'Hamp2', 'Rdx', 'Saa3', 'Idh2',
'Mup14', 'Commd3', 'Serpind1', 'Tgoln1', 'Mia3', 'Ctsb', 'Ces3b', 'Mettl7a1',
'Nsdhl', 'Cyp4a14', 'Cdkn1c', 'G6pc', 'Por', 'Hspb8', 'Afp', 'Ugt2b35', 'Lifr',
'Txnrd1', 'Slc25a4', 'Serpina6', 'H6pd', 'Rnf149', 'Defb1']
```

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Tef



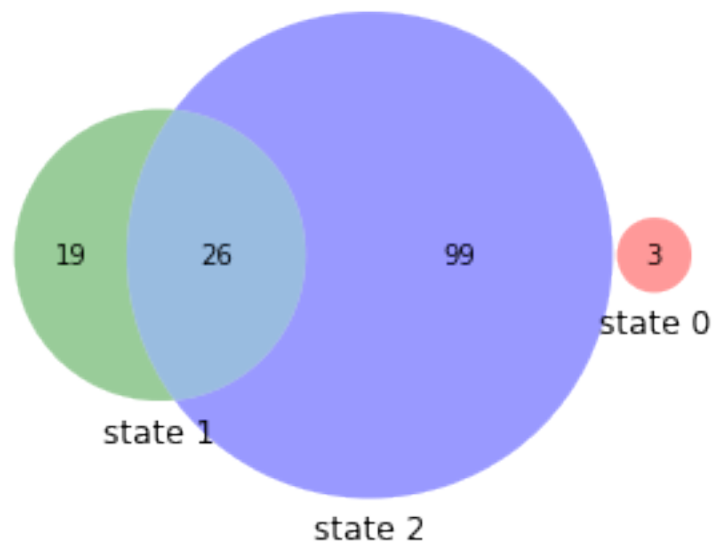


intersected genes of three states:

```
['Lipa', 'Sult2a2', 'Mup9', 'Abcc2', 'Hamp2', '1300017J02Rik', 'Saa3', 'Gys2',  
'Anxa5', 'Serpind1', 'Fads1', 'Msra', 'Gfer', 'Coq8a', 'Bet1', 'Cnd1',  
'Apol9a', 'Fasn', 'Slc17a2', 'Cxcl1', 'S100a9', 'F12', 'Gstm3', 'Insig1',  
'Serpina6', 'Gsr', 'Lpin2', 'Defb1', 'Stmn1', 'Lypla1']
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Phf5a



intersected genes of three states:

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[]
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Srebf2

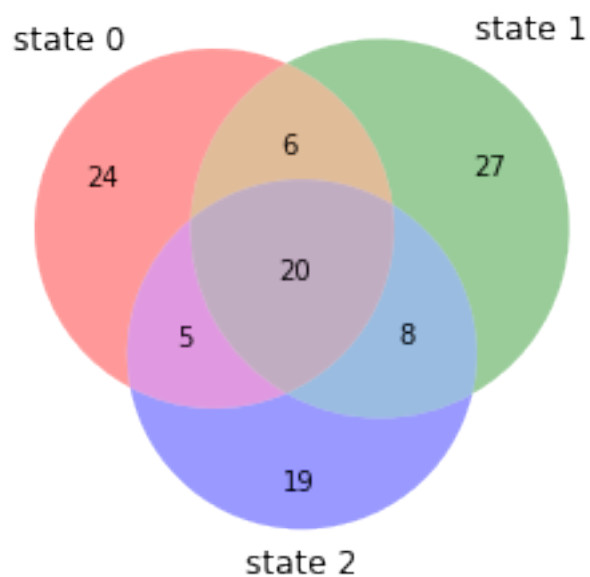


intersected genes of three states:

```
['C6', 'Acsl4', 'Smlr1', 'Mup9', 'Fam96a', '2200002D01Rik', 'Prodh2', 'Cyp2c37',
'Sult2a6', 'Abhd14b', 'Gys2', 'Gabarapl1', 'Gm4952', 'Rpn1', 'Slc39a14',
'Nat8f1', 'Slc22a30', 'Selenof', 'Copa', 'Hsd17b12', 'Neat1', 'Nsdhl',
'Cyp4f14', 'Cyp2d9', 'Tfr2', 'F13b', 'Por', 'Xiap', 'Ugt2b35', 'Cst3', 'Crip2',
'Aadat', 'Serpina3m', 'Serinc3', 'Snrpf', 'Rapgef4']
```

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Ppara



intersected genes of three states:

['Mup17', 'Mup18', 'Mup21', 'Dgat2', 'Tgoln1', 'Gjb1', 'C8b', 'Rarres2',  
'Dhcr24', 'Zcrb1', 'Cdkn1c', 'Cpt1a', 'Fis1', 'Hdlbp', 'Col18a1', 'Ndufb7',  
'Atp5e', 'Hsd3b5', 'Mettl7b', 'Slc10a1']

-----

Atf1

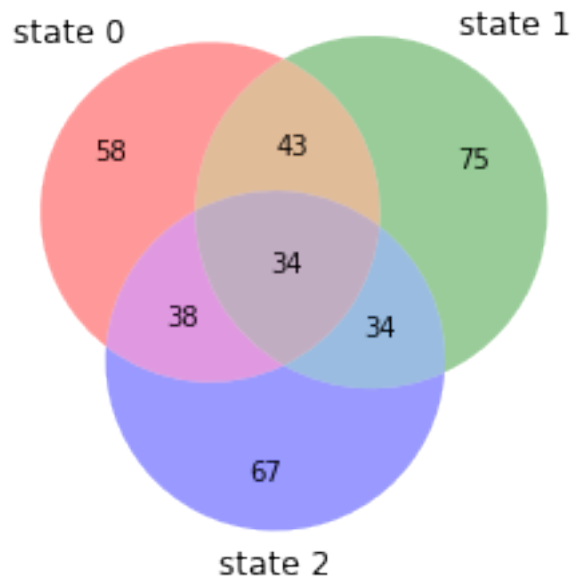


intersected genes of three states:

['Ddx3y', 'Hamp2', 'Cyp2c37', 'Abhd14b', 'Prdx4', 'Saa3', 'Alas2', 'Anxa5',  
'Cyp4a12a', 'C1s1', 'Tax1bp1', 'Zcrb1', 'Atp11c', 'Cyp4a14', 'Xiap', 'Mtss1',  
'Fasn', 'Tmed5', 'Ugt2b1', 'Raph1', 'Steap4', 'Atpif1', 'Myo1b', 'Serpina10',  
'Laptm4a']

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Sp1



intersected genes of three states:

```
['C6', 'Ddx3y', 'Acs14', '2200002D01Rik', 'Polr2i', 'Ube2r2', 'Prodh2',
'Elovl5', 'Me1', '1300017J02Rik', 'Nlrp12', 'Cyp4a12a', 'C1s1', 'Nhp2',
'Slc39a14', 'Tgoln1', 'Dcaf11', 'Atp6v0e', 'Fkbp11', 'Acadsb', 'Itih1',
'Slc25a13', 'Atp11c', 'Nme2', 'Grn', 'Serinc1', 'Fasn', 'Akr1c19', 'Slc17a2',
'Gadd45g', 'Slc25a4', 'Serpina6', 'Iqgap2', 'Defb1']
```

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Cebpd

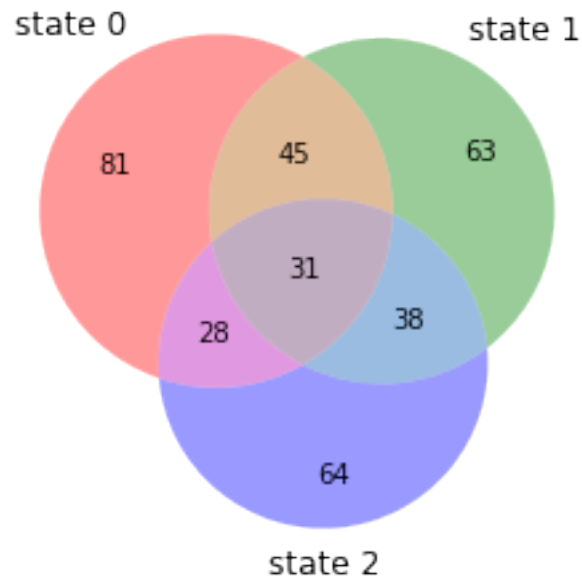


intersected genes of three states:

```
['C6', 'Lrp1', 'Me1', 'Alas2', 'Kng2', 'Mup14', 'Mup21', 'Spcs2', 'Abat',  
'Ces3b', 'Bola2', 'Adh4', 'Elov13', 'Cdkn1c', 'Grn', 'Fech', 'Mtss1', 'Slc17a2',  
'Sdc2', 'S100a9', 'Slc25a4', 'Hsd3b5', 'Lypla1']
```

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Bcl6

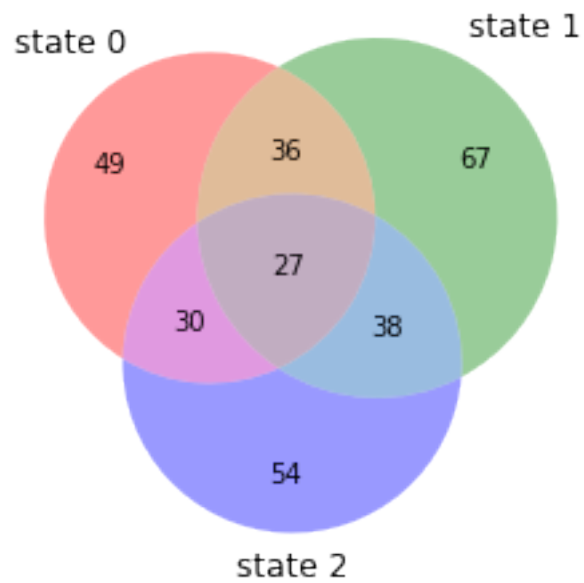


intersected genes of three states:

```
['Mup9', 'Elov15', 'Tm9sf3', 'Pnrc1', 'Cyp2c37', 'Slc2a2', 'Gys2', 'Mup12',  
'Cyp4a12a', 'C1s1', 'Ranbp1', 'Hba-a1', 'Rpn1', 'Abat', 'Slc39a14', 'Fads1',  
'Serpinf2', 'Itih1', 'Cltc', 'Gstp3', 'Ube2l6', 'Galk1', 'Kynu', 'Psap',  
'Tmem56', 'Tmed5', 'Gadd45g', 'Srp19', 'Serpina6', 'Myl12b', 'F10']
```

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Hes1



intersected genes of three states:

```
['Ssr1', 'Sult2a2', 'Mup9', 'Polr2i', 'Aco1', 'Hamp2', 'Me1', 'Cyp1a2', 'Ube2s',
'Prdx4', 'I11rap', 'Mup18', 'Abat', 'Slc39a14', 'Tgoln1', 'Copz1', 'Tuba1c',
'Neat1', 'Atp11c', 'Cyp4a14', 'Grn', 'Mtss1', 'Serpina6', 'Serinc3', 'Defb1',
'Stmn1', 'Prkd3']
```

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Nr1i2

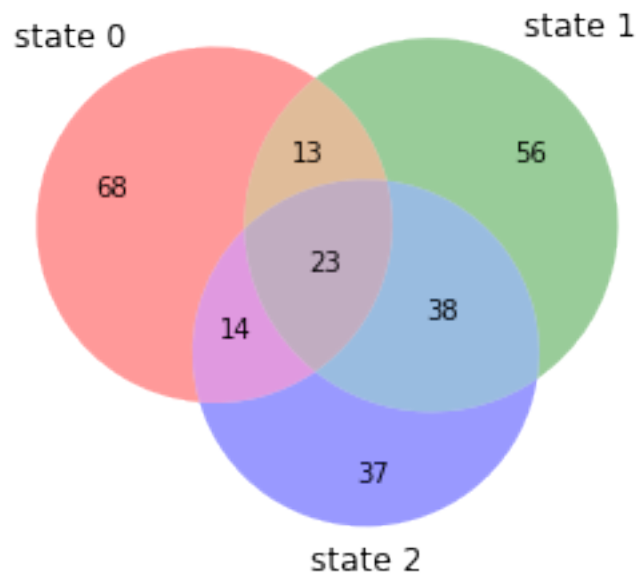


intersected genes of three states:

['Ssr1', 'Sult2a2', 'Acss2', 'Mup9', 'Cyp2c37', 'Rpl13a', 'Slc27a5', 'March5',  
 'Prdx4', 'Surf4', 'Gys2', 'Kng2', '1810008I18Rik', 'Clec2d', 'Cyp4a12a',  
 'Uroc1', 'Rpn1', 'Slc39a14', 'Ces3b', 'Gjb1', 'Neat1', 'Atp11c', 'Cyp4f14',  
 'Cyp4a14', 'Qsox1', 'Gm4788', 'Cfhr1', 'Apol9b', 'Cd164', 'Ddx3x', 'Ly6d',  
 'Mtss1', 'Afp', 'Sdc2', 'Ugt3a2', 'Lifr', 'Cst3', 'Serpina6']

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Zbtb20

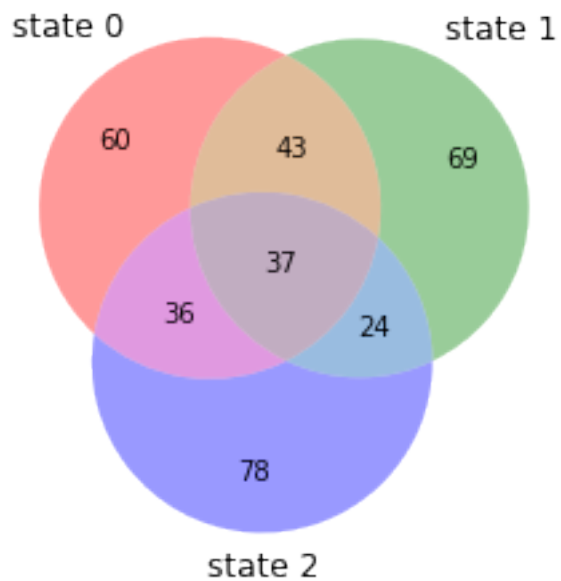


intersected genes of three states:

['Mup9', 'Ube2r2', 'Avpi1', 'Prodh2', 'Saa3', 'Rpl22l1', 'Mup17', 'Mup18',  
 'Mup21', '1110008P14Rik', 'Eci1', 'Tgoln1', 'Rarres2', 'Dhcr24', 'Fkbp11',  
 'Pnpo', 'F13b', 'Ndufb7', 'Serinc3', 'Mettl7b', 'Hmgcl', 'Slc10a1', 'Pasma3']

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Gabpa



intersected genes of three states:

```
['C6', 'Mup9', '2200002D01Rik', 'Abcc2', 'Polr2i', 'Elov15', 'Cyp2c67',
'Acad11', 'Prdx4', 'Saa3', 'Tubb4b', 'Abhd2', 'Ogdh', 'Dgat2', 'Gm2a', 'Mia3',
'Coq8a', 'Neat1', 'Srsf3', 'Aldh9a1', 'Nme2', 'Cdkn1c', 'F13b', 'Xiap', 'Lman1',
'Tmed5', 'Slc17a2', 'Cdc34', 'Ugdh', 'Ugt3a2', 'Cyp4v3', 'Tmem243', 'Cyp51',
'Serpina3m', 'Serinc3', 'Btg1', 'Defb1']
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Bach1



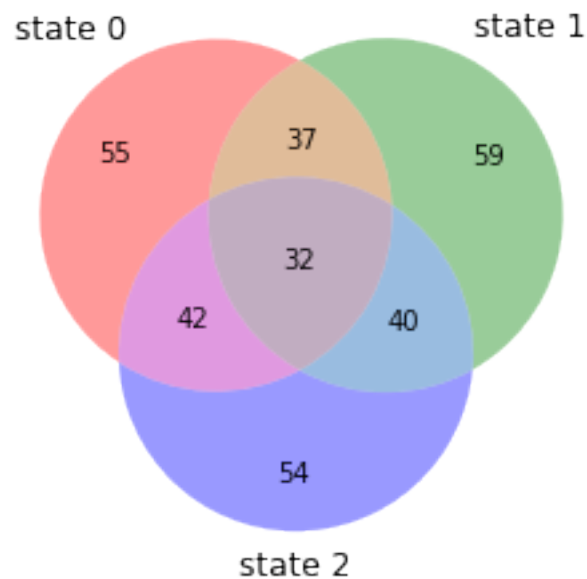


intersected genes of three states:

['C6', 'Ddx3y', 'Acsl4', 'Sult2a2', 'Elov15', 'Me1', 'Sult2a6', 'Il1rap',  
 'Abhd2', 'Acbd5', 'Mup14', 'Ogdh', 'Hba-a2', 'Nat8f1', 'Fads1', 'Gm2a',  
 'Slc35d1', 'Gk', 'Tuba1c', 'Fkbp11', 'Copa', 'Acadsb', 'Aass', 'Vmp1', 'F5',  
 'Nme2', 'Cyp4a14', 'Cyp2d10', 'Cdkn1c', 'Tfr2', 'Cfhr1', 'Tubb5', 'Tmed5',  
 'Afp', 'Lifr', 'Msmo1', 'Txnrd1', 'Slc7a2', 'Rpn2', 'Stmn1', 'Abcb11']

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Ets2



intersected genes of three states:

['C6', 'Ddx3y', 'Ssr1', 'Acsl4', 'Pnrc1', 'Cbr1', 'Prdx4', 'Il1rap', 'Clec2d',  
 'Abhd2', 'Mup12', 'Mup14', 'Aplp2', 'C1s1', 'Hba-a2', 'Rpn1', 'Ces3b',  
 'Slc22a30', 'Copa', 'Adh4', 'Mttp', 'F5', 'Tob1', 'Cyp4a14', 'Elov13', 'Afp',  
 'S100a9', 'Prtn3', 'Raph1', 'Slc25a4', 'Chpt1', 'Stmn1']

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Cdc5l

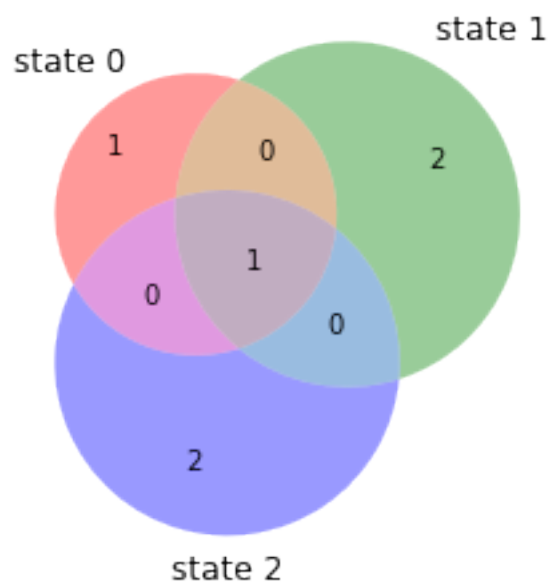


intersected genes of three states:

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['Suc1g2', 'C6', 'Ddx3y', 'Ssr1', 'Zbtb8os', 'Mup9', '2200002D01Rik', 'Abcc2',
'Hoga1', 'Hamp2', 'Cyp2c37', '1300017J02Rik', 'Prdx4', 'Surf4', 'Alas2',
'Mup18', 'Ogdh', 'Bbox1', 'Rpn1', 'Nhp2', 'Abat', 'Tgoln1', 'Slc22a30',
'Sppl2a', 'Slc35d1', 'Mettl7a1', 'Bola2', 'Itih1', 'Aass', 'Elovl3', 'Tfr2',
'Serinc1', 'Mut', 'Ugt2b35', 'Lifr', 'Aadat', 'Txnrd1', 'Ftl1-ps1', 'Srp19',
'Myo1b', 'H6pd', 'Ddi2', 'Prkd3', 'Hsd3b5']
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Epas1

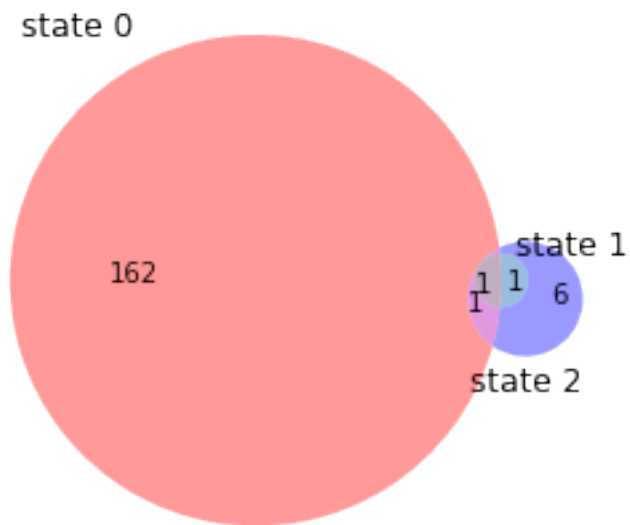


intersected genes of three states:

['Cdc34']

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Crem

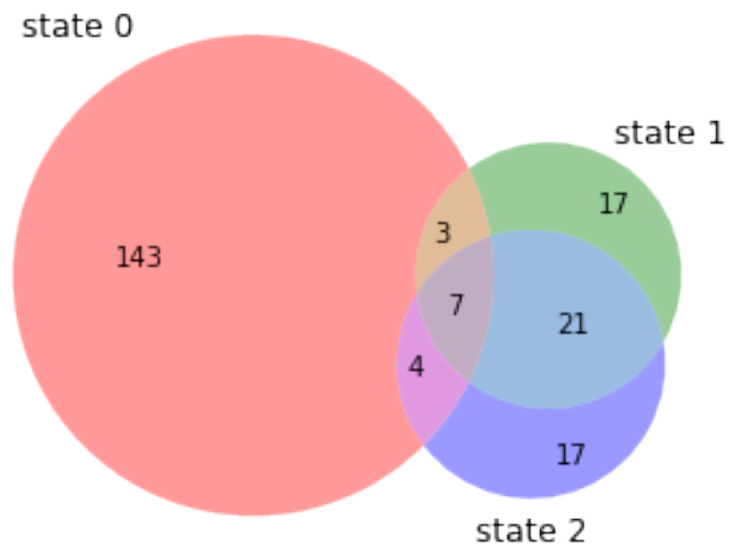


intersected genes of three states:

['Serpina10']

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Egr1

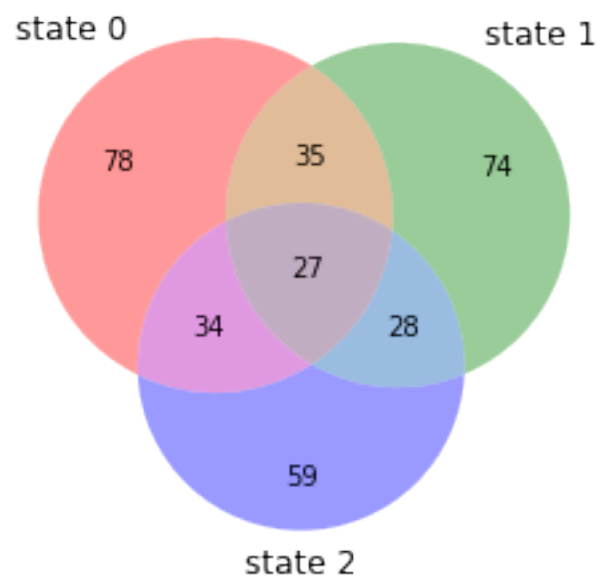


intersected genes of three states:

['Polr2i', 'Rad23b', 'Ptrpf', 'Rpn2', 'Tmem19', 'Ttc39c', 'Zfp3611']

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Pura



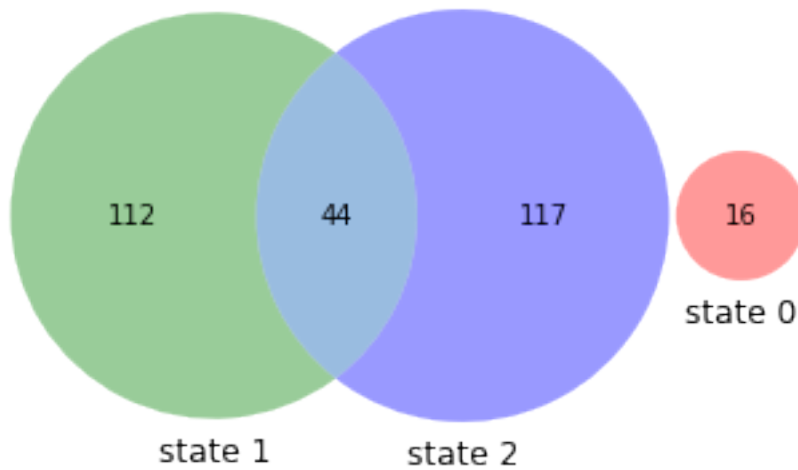
intersected genes of three states:

['C6', 'Larp4b', 'Mup9', 'Snrpd2', '1300017J02Rik', 'Slc27a5', 'Alas2', 'Mup14',

'Tgoln1', 'Mrpl57', 'Coq8a', 'Atp6v0e', 'Gstp3', 'Cdkn1c', 'Tfr2', 'Galk1',  
 'Lman1', 'Pcyt2', 'Serinc1', 'Ugdh', 'Lpl', 'F12', 'Slc25a4', 'Serpina6',  
 'Man2a1', 'Btg1', 'Stmn1']

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Nr3c1

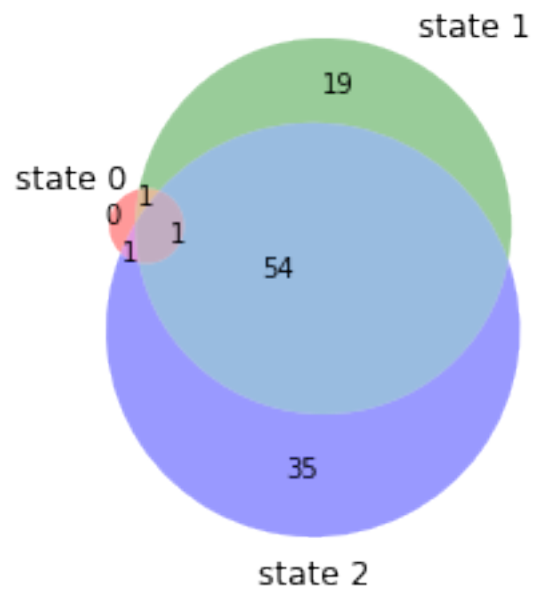


intersected genes of three states:

[]

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Onecut2

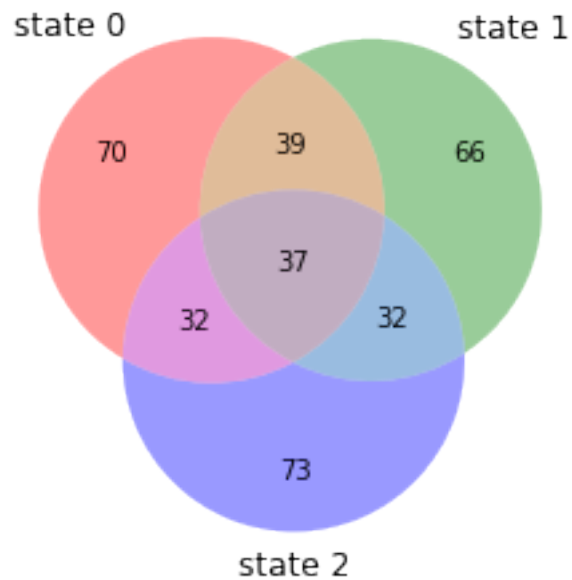


intersected genes of three states:

['Mrps18c']

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Smad4

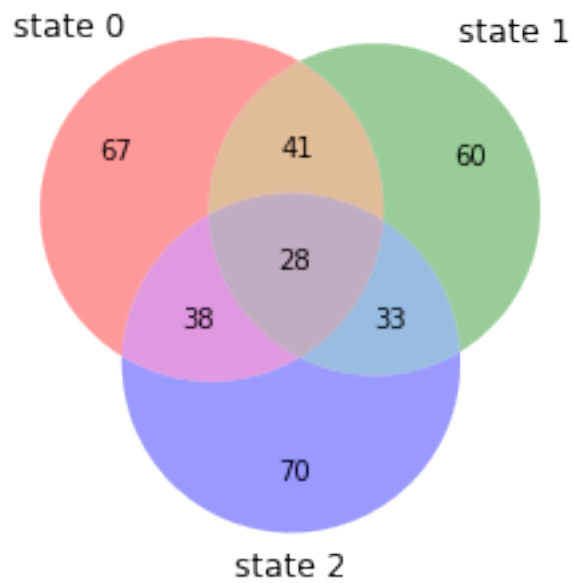


intersected genes of three states:

['Larp4b', 'Sult2a2', 'Acss2', 'Mup9', 'Abcc2', 'Elovl5', 'Cyp2a12', 'Tm9sf3', 'Cyp1a2', 'Abhd14b', 'Ube2s', 'Pten', 'Il1rap', '1810008I18Rik', 'Mup12', 'Mup18', 'Cyp4a12a', 'Slc39a14', 'Slc22a30', 'Cela1', 'Mettl7a1', 'Tuba1c', 'Cyp4a14', 'Cd81', 'Ldhd', 'Sumo2', 'Pmvk', 'Cers2', 'F12', 'Aadat', 'Txnrd1', 'Serinc3', 'Pdia6', 'Stmn1', 'Tmem19', 'Prkd3', 'Lactb2']

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Cxxc1

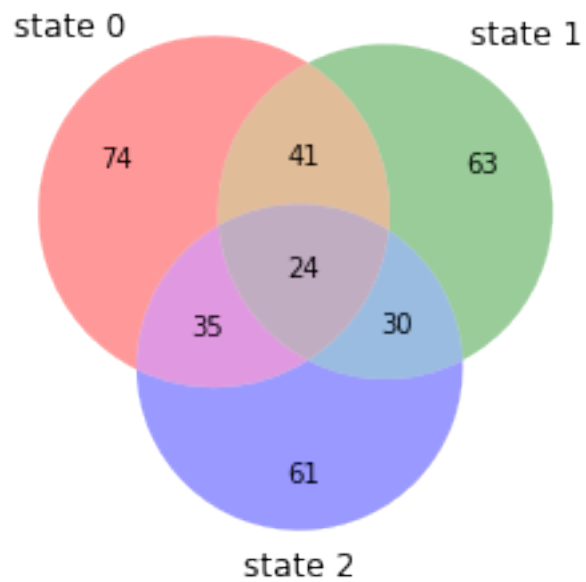


intersected genes of three states:

```
['Suc1g2', 'Mup9', '1810022K09Rik', 'Prodh2', 'Aco1', 'Sult2a6', 'Nlrp12',
'Saa3', 'Hba-a1', 'Cyp2j5', 'Tgoln1', 'Slc16a2', 'Acadsb', 'U2af1', 'Por',
'Apol9b', 'Ube2l6', 'Arpc3', 'Ddx3x', 'Mrps18c', 'Cmah', 'Afp', 'S100a9',
'Mrpl34', 'Laptm4a', 'Ddi2', 'Prkd3', 'Abcb11']
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Mbd1



intersected genes of three states:

['Ddx3y', 'Elov15', 'Me1', 'Pdcd4', 'Sult2a6', 'Mup14', 'Mup18', 'Tmem126a',  
'Slc39a14', 'Nat8f1', 'Itih1', 'Mttp', 'Ccnd1', 'Grn', 'Ly6d', 'Pcyt2',  
'S100a9', 'Cst3', 'Khk', 'Klkb1', 'Atpif1', 'Eno1', 'Stmn1', 'Tmem19']

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Tshz1



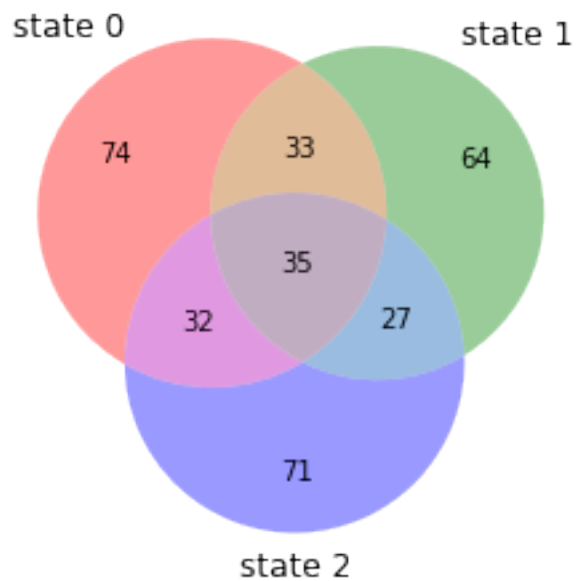
intersected genes of three states:

['C6', 'Mup9', 'Lrp1', '2200002D01Rik', 'Abcc2', 'Aqp9', 'Cyp2c37', 'Chmp2a',  
'Saa3', 'Il1rap', 'Selenot', 'Hba-a1', 'Gulo', 'Tgoln1', 'Ces3b', 'Bola2',  
'Hsd17b12', 'Tob1', 'Cd81', 'Cdkn1c', 'Cfhr1', 'F13b', 'Grn', 'Hspb8', 'Mtss1',  
'Dnajc12', 'Cers2', 'Lpl', 'Laptm4a', 'Rpn2', 'Hsd3b5', 'Tspan31']

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Kdm2a



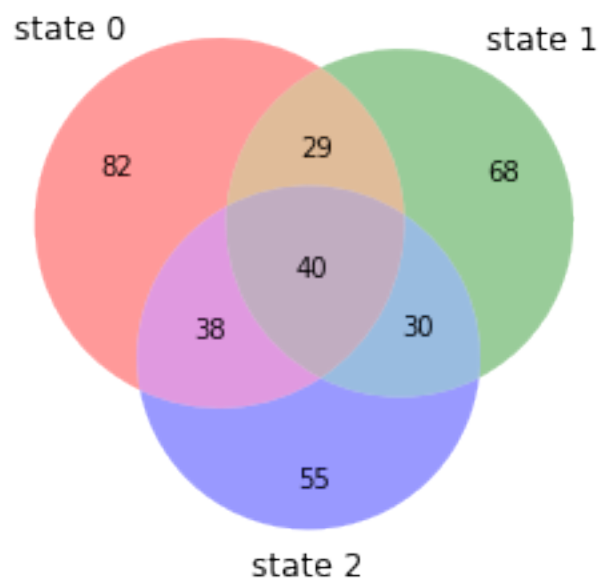


intersected genes of three states:

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['Ddx3y', 'Sult2a2', 'Mup9', '1810022K09Rik', 'Ube2r2', 'Prodh2', 'Aco1',
'Cyp7b1', 'Acad11', 'Gys2', 'Selenot', 'Hba-a2', 'Nhpc2', 'Nat8f1', 'Mia3',
'Copz1', 'Mrpl57', 'Sap18', 'Slc22a30', 'Atp11c', 'Cyp4a14', 'Cpt1a', 'Apol9b',
'Atp2a2', 'S100a9', 'Msmo1', 'Raph1', 'Slc25a4', 'Cyp51', 'Serpina6', 'Btg1',
'Rpn2', 'Stmn1', 'Haao', 'Zfp3611']
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Rela

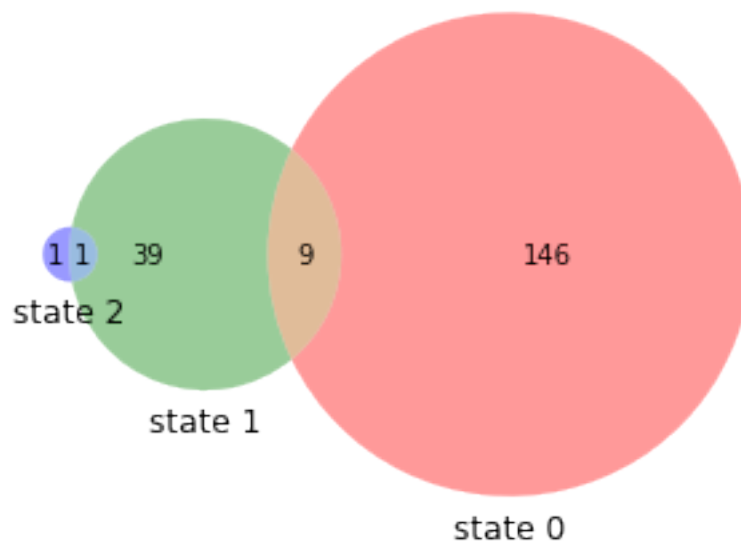


intersected genes of three states:

['Sult2a2', 'Mup9', 'Lrp1', 'Tmem30a', 'Sult2a6', 'Slc27a5', 'Surf4', 'Nlrp12',  
 'Gys2', 'Il1rap', 'Clec2d', 'Mup18', 'Cyp4a12a', 'Tmem126a', 'Uroc1', 'Hbb-bt',  
 'Mia3', 'Gfer', 'Mettl7a1', 'Dph3', 'Neat1', 'Cyp4a14', 'Cdkn1c', 'Ccnd1',  
 'Cpt1a', 'F13b', 'Xiap', 'Grn', 'Atp2a2', 'Rrbp1', 'Mut', 'Slc17a2', 'Lonp2',  
 'Ugt2b35', 'Raph1', 'Serpina6', 'Slc7a2', 'Man2a1', 'H6pd', 'Hao2']

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Zfp91

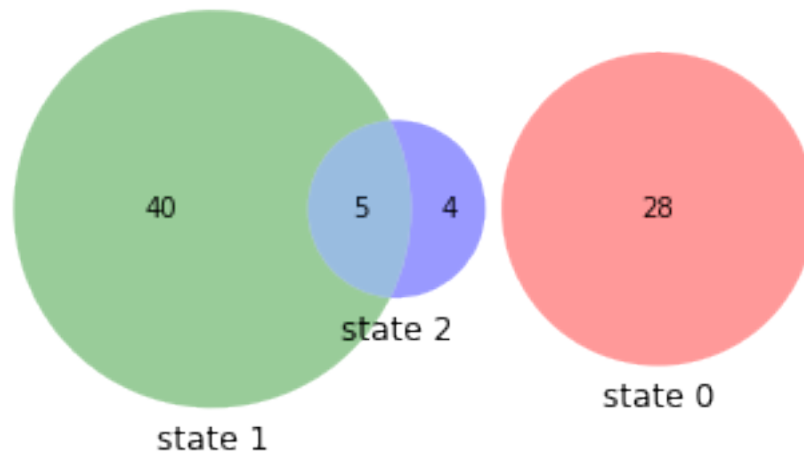


intersected genes of three states:

[]

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Klf9

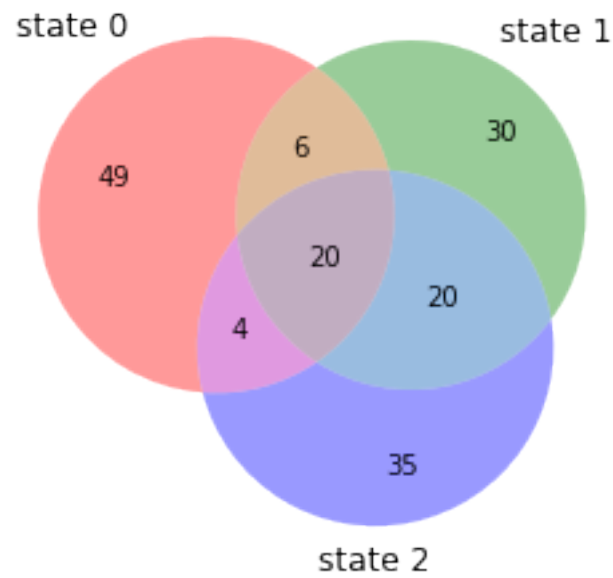


intersected genes of three states:

[]

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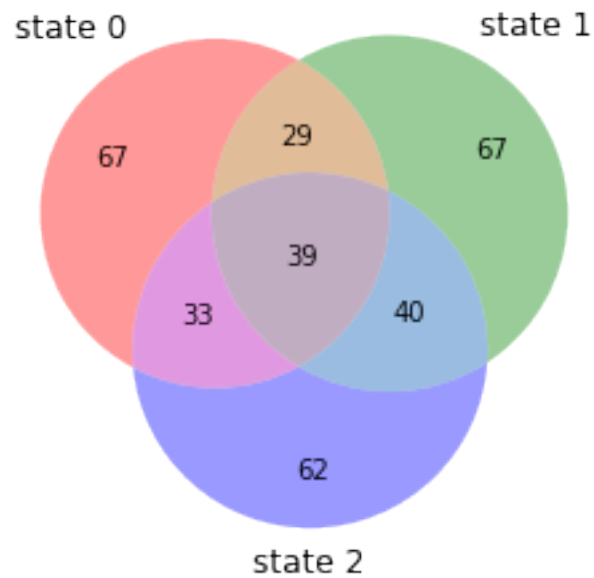
Hhex



intersected genes of three states:

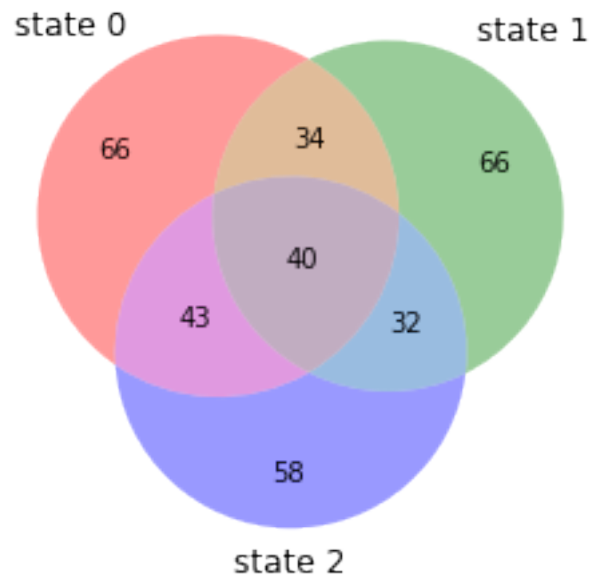
['Mup9', 'Cyp2a12', 'Bckdha', 'Tmem30a', 'Slco1b2', 'Abhd2', 'C8b', 'Tmbim6', 'Cyp2d26', 'Ndufs8', 'Cpt1a', 'Xiap', 'Cd164', 'Ly6d', 'Cisd1', 'Col18a1', 'Elovl2', 'Msmo1', 'Hao2', 'Mettl17b']

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Mxi1



intersected genes of three states:  
['Ddx3y', 'Acsl4', 'Acss2', 'Mup9', 'Polr2i', 'Cyp2c23', 'Aqp9', 'Hamp2',  
'Cyp2c37', 'Sult2a6', 'Abhd2', 'Ufm1', 'Selenot', 'Gm2a', 'Ces3b', 'Sap18',  
'Acadsb', 'Cyp4a14', 'Cpt1a', 'Por', 'Xiap', 'Apol9a', 'Ube2l6', 'Cd164',  
'Fech', 'Serinc1', 'Mtss1', 'Mut', 'Ywhaz', 'Lpl', 'Aadat', 'Srp19', 'Steap4',  
'Ssu72', 'Proz', 'Hsd3b5', 'Hao2', 'Snrpd1', 'Pcmt1']

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Tcf7l2



intersected genes of three states:

```
['C6', 'Ddx3y', 'Zbtb8os', 'Acs14', 'Larp4b', 'Pnrc1', 'Cyp2c37', 'Cyp2c67',
'Nlrp12', 'Pten', 'Gys2', 'Alas2', 'Il1rap', 'Abhd2', 'Mup14', 'Mup18', 'Ogdh',
'Cyp4a12a', 'Hbb-bt', 'Nh2', 'Sar1b', 'Mia3', 'Sppl2a', 'Gk', 'Mttp', 'Nsdhl',
'Cyp4a14', 'Cpt1a', 'Tfr2', 'Apol9b', 'Ube2l6', 'Galk1', 'Ly6d', 'Akr1c19',
'S100a9', 'Prtn3', 'Man2a1', 'Defb1', 'Prkd3', 'Hsd3b5']
```

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## 1 Test of functions