|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  | Stomach | | | Pyloric caeca | | | Hindgut | | | Liver | | |
| gene\_id | genename | annotation | 0.16g | 2.5g | 10g | 0.16g | 2.5g | 10g | 0.16g | 2.5g | 10g | 0.16g | 2.5g | 10g |
| 106603558 | acat1 | cholesterol metabolism | 57.7 | 56.3 | 61.1 | 29.0 | 33.5 | 31.3 | 28.7 | 29.1 | 25.0 | 12.0 | 11.0 | 12.0 |
| 106604248 | nsdhl\_1 | cholesterol metabolism | 0.9 | 5.1 | 4.3 | 2.4 | 15.9 | 16.6 | 1.4 | 10.9 | 10.6 | 6.9 | 42.4 | 38.8 |
| 106604636 | abca1b\_1 | cholesterol metabolism | 0.8 | 0.7 | 0.6 | 36.4 | 48.3 | 80.7 | 4.5 | 2.9 | 0.8 | 32.5 | 16.8 | 15.0 |
| 106605546 | sqlea\_2 | cholesterol metabolism | 0.1 | 5.1 | 2.3 | 0.2 | 4.7 | 2.5 | 0.7 | 1.9 | 1.4 | 0.1 | 25.9 | 21.6 |
| 100195349 | fdps\_1 | cholesterol metabolism | 3.1 | 15.2 | 11.2 | 3.0 | 20.8 | 15.8 | 4.8 | 10.7 | 12.6 | 4.5 | 134.8 | 118.4 |
| 106605924 | fdps\_2 | cholesterol metabolism | 2.7 | 11.9 | 8.8 | 3.1 | 19.1 | 14.3 | 4.2 | 9.4 | 9.4 | 4.8 | 103.8 | 93.6 |
| 100502556 | srebp1b | cholesterol metabolism | 0.5 | 0.9 | 0.5 | 0.8 | 0.8 | 1.3 | 0.5 | 0.8 | 1.0 | 0.6 | 0.8 | 1.9 |
| 106606621 | srebp1c | cholesterol metabolism | 1.0 | 2.0 | 1.7 | 2.4 | 2.9 | 4.0 | 1.1 | 2.0 | 2.1 | 2.4 | 3.3 | 3.3 |
| 106606632 | srebp1d | cholesterol metabolism | 9.3 | 8.0 | 8.7 | 11.0 | 14.1 | 17.6 | 5.1 | 8.9 | 9.1 | 18.0 | 20.3 | 23.0 |
| 106607132 | srebp2a\_2 | cholesterol metabolism | 3.4 | 5.6 | 5.1 | 3.9 | 8.0 | 6.1 | 4.4 | 8.4 | 8.4 | 6.9 | 16.5 | 18.0 |
| 106607120 | srebp2b | cholesterol metabolism | 5.0 | 4.7 | 6.6 | 4.6 | 9.0 | 6.1 | 4.6 | 7.2 | 8.4 | 7.4 | 21.3 | 22.1 |
| 100380689 | fdft1 | cholesterol metabolism | 8.8 | 18.0 | 15.0 | 6.1 | 25.5 | 21.6 | 7.6 | 19.7 | 23.4 | 10.6 | 118.5 | 112.2 |
| 100194920 | acat2 | cholesterol metabolism | 12.7 | 26.2 | 18.6 | 17.6 | 49.6 | 72.6 | 10.8 | 28.4 | 24.8 | 28.9 | 228.6 | 174.0 |
| 106608787 | abca1ab\_2 | cholesterol metabolism | 0.0 | 0.0 | 0.0 | 0.1 | 0.3 | 0.2 | 0.1 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 |
| 106609880 | abca1aa\_1 | cholesterol metabolism | 3.8 | 2.8 | 2.2 | 3.7 | 3.3 | 1.7 | 4.4 | 2.5 | 1.9 | 45.9 | 31.1 | 35.3 |
| 106611642 | abca1b\_2 | cholesterol metabolism | 0.2 | 0.0 | 0.0 | 0.2 | 1.6 | 4.3 | 0.7 | 0.1 | 0.1 | 0.1 | 0.0 | 0.1 |
| 106612199 | nsdhl\_2 | cholesterol metabolism | 3.2 | 5.6 | 4.4 | 3.6 | 9.9 | 10.6 | 3.7 | 8.9 | 8.4 | 12.1 | 41.9 | 34.3 |
| 106613907 | soat1b | cholesterol metabolism | 7.7 | 13.4 | 10.5 | 9.8 | 11.1 | 11.0 | 5.9 | 12.3 | 16.0 | 5.0 | 1.4 | 1.1 |
| 106560734 | faxdc2 | cholesterol metabolism | 2.0 | 1.4 | 4.0 | 413.3 | 580.0 | 827.6 | 303.1 | 560.9 | 743.4 | 286.2 | 94.2 | 117.4 |
| 106560930 | lcata\_1 | cholesterol metabolism | 0.8 | 2.4 | 0.7 | 1.9 | 1.0 | 0.8 | 13.0 | 0.7 | 0.8 | 1202.5 | 967.8 | 794.9 |
| 106562054 | dhcr7\_1 | cholesterol metabolism | 3.7 | 12.8 | 11.3 | 29.4 | 69.2 | 117.4 | 6.7 | 25.2 | 24.9 | 45.1 | 179.2 | 193.0 |
| 106562275 | mvd\_2 | cholesterol metabolism | 3.6 | 7.8 | 6.2 | 4.5 | 11.1 | 9.7 | 5.1 | 8.1 | 7.3 | 9.8 | 51.3 | 40.4 |
| 100136503 | scarb1 | cholesterol metabolism | 2.5 | 2.2 | 2.5 | 209.5 | 151.3 | 128.1 | 4.4 | 14.9 | 1.4 | 6.5 | 20.3 | 21.1 |
| 100380797 | hmgcraa | cholesterol metabolism | 6.0 | 6.2 | 5.4 | 10.5 | 14.5 | 18.3 | 10.4 | 12.9 | 14.2 | 8.3 | 11.3 | 12.3 |
| 106566146 | soat1a | cholesterol metabolism | 0.1 | 0.1 | 0.3 | 45.3 | 63.9 | 69.0 | 52.8 | 52.3 | 42.4 | 246.5 | 73.3 | 62.4 |
| 100195087 | sc5d\_1 | cholesterol metabolism | 11.1 | 39.1 | 25.8 | 24.7 | 127.8 | 144.8 | 21.6 | 84.5 | 85.7 | 55.7 | 505.2 | 493.1 |
| 106568727 | hsd17b7 | cholesterol metabolism | 2.2 | 5.9 | 5.4 | 4.0 | 11.7 | 15.0 | 3.1 | 7.1 | 8.7 | 12.7 | 99.7 | 100.5 |
| 106569008 | cyp7a1\_2 | cholesterol metabolism | 0.0 | 0.2 | 0.1 | 34.2 | 78.0 | 36.4 | 0.1 | 5.3 | 0.0 | 13.8 | 0.6 | 5.2 |
| 106571543 | hmgcs1 | cholesterol metabolism | 3.8 | 24.6 | 16.5 | 5.1 | 78.3 | 53.6 | 9.5 | 38.2 | 39.5 | 10.0 | 334.7 | 289.6 |
| 106570209 | cyp51\_1 | cholesterol metabolism | 4.0 | 23.0 | 16.3 | 5.7 | 56.1 | 51.9 | 6.4 | 41.4 | 39.1 | 2.1 | 123.1 | 112.5 |
| 106570829 | hmgcrab | cholesterol metabolism | 1.7 | 36.7 | 21.4 | 1.9 | 102.8 | 80.3 | 7.5 | 67.5 | 61.1 | 1.5 | 411.2 | 329.1 |
| 106571093 | slc10a1a\_2 | cholesterol metabolism | 0.1 | 0.0 | 0.1 | 23.0 | 17.3 | 25.0 | 0.4 | 0.5 | 0.1 | 5.1 | 0.3 | 0.4 |
| 106573007 | ebp\_1 | cholesterol metabolism | 6.7 | 20.4 | 15.0 | 10.4 | 37.0 | 50.3 | 4.4 | 32.1 | 32.3 | 11.7 | 95.1 | 66.6 |
| 106573639 | lcata\_2 | cholesterol metabolism | 0.6 | 0.5 | 0.8 | 5.8 | 0.7 | 0.9 | 9.1 | 0.6 | 0.1 | 63.5 | 80.2 | 91.1 |
| 106575306 | abcb11b | cholesterol metabolism | 0.2 | 0.2 | 0.2 | 0.7 | 0.3 | 0.8 | 5.4 | 0.3 | 0.9 | 359.9 | 335.8 | 335.5 |
| 106579093 | sqlea\_1 | cholesterol metabolism | 0.5 | 11.0 | 7.9 | 0.9 | 21.0 | 17.0 | 1.8 | 16.2 | 19.9 | 0.9 | 107.7 | 90.0 |
| 106577627 | abca1ab\_1 | cholesterol metabolism | 0.8 | 2.2 | 2.3 | 30.9 | 63.5 | 55.3 | 100.9 | 105.4 | 99.2 | 1.4 | 0.5 | 0.7 |
| 106578532 | idi1 | cholesterol metabolism | 9.0 | 28.1 | 24.1 | 11.5 | 54.9 | 72.8 | 18.0 | 41.5 | 40.8 | 14.5 | 433.4 | 373.0 |
| 100196754 | ggps1\_1 | cholesterol metabolism | 11.3 | 13.3 | 15.7 | 8.1 | 10.0 | 11.2 | 7.4 | 9.0 | 9.8 | 8.8 | 12.8 | 12.8 |
| 100196754 | ggps1\_2 | cholesterol metabolism | 2.5 | 3.4 | 3.5 | 1.6 | 2.6 | 2.1 | 1.6 | 2.4 | 2.6 | 1.6 | 3.3 | 1.9 |
| 106580429 | pmvk | cholesterol metabolism | 3.4 | 4.0 | 4.3 | 3.9 | 6.6 | 7.3 | 3.0 | 6.4 | 6.1 | 8.1 | 15.5 | 13.1 |
| 106580105 | mvk\_1 | cholesterol metabolism | 2.6 | 4.3 | 4.0 | 2.6 | 4.8 | 3.6 | 2.6 | 3.2 | 3.1 | 4.4 | 16.9 | 17.3 |
| 106581851 | lss | cholesterol metabolism | 1.3 | 8.9 | 5.9 | 3.1 | 35.8 | 33.2 | 3.9 | 22.6 | 21.5 | 9.6 | 183.1 | 165.6 |
| 106581787 | abcb11a | cholesterol metabolism | 0.1 | 0.2 | 0.4 | 40.1 | 39.0 | 69.8 | 0.2 | 0.2 | 0.1 | 1.1 | 0.0 | 0.0 |
| 106581743 | slc10a2 | cholesterol metabolism | 0.4 | 0.4 | 3.5 | 1.6 | 10.2 | 1.4 | 232.6 | 808.1 | 723.5 | 0.9 | 0.1 | 0.0 |
| 106584213 | dhcr24 | cholesterol metabolism | 4.3 | 14.2 | 7.7 | 10.6 | 46.1 | 59.9 | 3.8 | 10.6 | 6.6 | 18.9 | 82.6 | 75.6 |
| 106585168 | npc1l1 | cholesterol metabolism | 0.1 | 0.3 | 0.6 | 73.8 | 206.6 | 164.8 | 16.6 | 80.7 | 66.6 | 9.0 | 28.3 | 30.4 |
| 106585666 | mvk\_2 | cholesterol metabolism | 0.5 | 1.1 | 1.2 | 0.8 | 3.1 | 2.3 | 0.7 | 2.3 | 2.2 | 0.8 | 5.3 | 3.8 |
| 106586453 | lcatb | cholesterol metabolism | 1.0 | 0.8 | 1.0 | 0.8 | 0.8 | 1.0 | 1.1 | 1.1 | 1.1 | 6.6 | 2.1 | 2.6 |
| 106587139 | dhcr7\_2 | cholesterol metabolism | 4.4 | 10.8 | 7.6 | 24.7 | 44.6 | 46.4 | 6.7 | 20.5 | 17.6 | 41.7 | 86.9 | 82.2 |
| 100195467 | mvd\_1 | cholesterol metabolism | 1.6 | 6.4 | 4.3 | 1.6 | 15.8 | 14.4 | 3.5 | 21.7 | 25.5 | 2.8 | 63.3 | 47.2 |
| 106588568 | cyp51\_2 | cholesterol metabolism | 3.3 | 19.0 | 13.2 | 4.4 | 42.3 | 37.9 | 4.8 | 24.9 | 26.3 | 9.2 | 184.0 | 152.7 |
| 106589694 | abcg5 | cholesterol metabolism | 0.1 | 0.2 | 0.7 | 17.8 | 85.4 | 114.2 | 25.5 | 74.2 | 100.9 | 31.1 | 54.7 | 55.6 |
| 106589695 | abcg8 | cholesterol metabolism | 0.2 | 0.4 | 1.5 | 95.5 | 291.7 | 347.7 | 90.4 | 179.1 | 187.4 | 209.4 | 275.2 | 273.2 |
| 106590825 | msmo1 | cholesterol metabolism | 1.9 | 36.0 | 18.0 | 4.3 | 71.0 | 72.0 | 6.8 | 67.0 | 61.6 | 9.5 | 330.6 | 263.2 |
| 106599162 | cyp7a1\_1 | cholesterol metabolism | 0.1 | 0.2 | 0.4 | 20.0 | 246.6 | 206.4 | 3.3 | 23.1 | 0.1 | 100.3 | 207.4 | 188.3 |
| 106594019 | abcb4 | cholesterol metabolism | 0.3 | 0.3 | 0.8 | 6.6 | 14.3 | 4.9 | 72.9 | 49.0 | 53.9 | 21.4 | 26.7 | 24.8 |
| 100502557 | srebp2a\_1 | cholesterol metabolism | 3.6 | 5.2 | 4.4 | 3.6 | 7.0 | 5.3 | 3.6 | 5.8 | 4.9 | 5.4 | 9.9 | 12.0 |
| 106591920 | ebp\_2 | cholesterol metabolism | 13.6 | 36.6 | 32.0 | 21.3 | 76.0 | 87.2 | 6.5 | 52.8 | 53.6 | 16.4 | 164.1 | 134.6 |
| 100502556 | srebp1a | cholesterol metabolism | 1.0 | 1.2 | 1.5 | 2.0 | 1.9 | 2.9 | 1.4 | 1.9 | 1.7 | 2.4 | 2.0 | 2.3 |
| 106602602 | abca1aa\_2 | cholesterol metabolism | 4.5 | 3.3 | 2.3 | 4.3 | 3.0 | 2.9 | 4.6 | 3.4 | 4.1 | 64.4 | 78.0 | 97.9 |
| 106603135 | tm7sf2 | cholesterol metabolism | 6.2 | 21.5 | 13.4 | 11.1 | 65.2 | 92.5 | 13.3 | 41.0 | 42.0 | 19.6 | 278.9 | 229.0 |
| 106603829 | acsl6\_2 | fatty acid metabolism | 0.8 | 1.2 | 1.1 | 3.7 | 8.6 | 8.3 | 2.9 | 7.7 | 9.1 | 0.7 | 0.5 | 1.4 |
| 106603912 | fabp6\_1 | fatty acid metabolism | 8.4 | 11.6 | 136.3 | 321.1 | 2100.1 | 430.7 | 12927.3 | 22240.5 | 26049.2 | 240.3 | 508.5 | 56.2 |
| 106604299 | acsl4b | fatty acid metabolism | 7.1 | 10.3 | 6.5 | 14.9 | 29.9 | 29.8 | 10.0 | 19.6 | 16.5 | 22.7 | 31.2 | 21.0 |
| 106604515 | elovl6\_1 | fatty acid metabolism | 6.8 | 10.7 | 6.9 | 2.5 | 1.0 | 2.2 | 9.5 | 3.2 | 2.6 | 1.5 | 478.6 | 505.8 |
| 100195992 | adh5a\_1 | fatty acid metabolism | 207.8 | 169.5 | 174.9 | 231.1 | 150.3 | 187.7 | 179.1 | 138.8 | 145.0 | 222.1 | 131.2 | 116.9 |
| 106605182 | fabp10a\_2 | fatty acid metabolism | 3.5 | 6.7 | 2.7 | 10.6 | 1.7 | 5.7 | 204.3 | 1.1 | 3.7 | 17609.4 | 21022.0 | 15372.8 |
| 106605645 | aldhm | fatty acid metabolism | 19.3 | 18.3 | 27.4 | 21.2 | 14.8 | 21.8 | 10.9 | 12.2 | 13.5 | 4.4 | 13.6 | 14.6 |
| 106606271 | eci1c | fatty acid metabolism | 17.6 | 22.7 | 15.7 | 20.7 | 28.4 | 33.9 | 20.3 | 20.6 | 19.4 | 39.0 | 45.3 | 35.5 |
| 106606772 | fatp4c\_1 | fatty acid metabolism | 7.2 | 9.1 | 6.5 | 6.6 | 6.2 | 5.5 | 7.2 | 4.0 | 3.9 | 9.1 | 7.4 | 7.4 |
| 106607075 | gcdha\_2 | fatty acid metabolism | 20.1 | 28.6 | 25.9 | 19.6 | 34.6 | 39.2 | 20.6 | 26.2 | 21.7 | 361.0 | 257.9 | 209.7 |
| 106608305 | abcd4b | fatty acid metabolism | 3.6 | 4.0 | 3.6 | 6.3 | 8.3 | 9.8 | 22.7 | 46.5 | 47.9 | 4.9 | 1.6 | 2.3 |
| 106608385 | hadhb | fatty acid metabolism | 113.2 | 98.9 | 92.3 | 106.8 | 145.8 | 199.5 | 102.6 | 99.8 | 100.8 | 131.6 | 136.6 | 135.6 |
| 106608508 | fabp2b | fatty acid metabolism | 34.6 | 546.8 | 534.2 | 1144.4 | 4479.6 | 2535.8 | 60.2 | 1315.1 | 1218.9 | 40.4 | 175.6 | 281.3 |
| 106610271 | fasn\_2 | fatty acid metabolism | 2.6 | 10.9 | 4.2 | 1.8 | 4.7 | 1.9 | 3.8 | 4.0 | 2.6 | 1.4 | 65.4 | 113.2 |
| 100306814 | acox3 | fatty acid metabolism | 24.5 | 21.5 | 20.1 | 96.4 | 133.4 | 181.9 | 67.7 | 67.7 | 67.8 | 120.5 | 122.6 | 137.7 |
| 106609116 | abcd1\_2 | fatty acid metabolism | 1.4 | 1.0 | 1.1 | 1.1 | 1.3 | 1.0 | 1.5 | 1.6 | 1.3 | 0.9 | 1.6 | 1.9 |
| 106609495 | cd36\_2 | fatty acid metabolism | 0.1 | 0.1 | 0.2 | 24.8 | 148.4 | 97.1 | 0.7 | 41.2 | 29.6 | 0.4 | 0.0 | 0.0 |
| 106610011 | fabp2a\_2 | fatty acid metabolism | 7.0 | 24.8 | 42.6 | 2827.8 | 8806.6 | 14661.5 | 214.1 | 1031.4 | 773.3 | 15.3 | 0.2 | 2.8 |
| 106610003 | acsl1a\_2 | fatty acid metabolism | 13.7 | 13.2 | 11.3 | 15.2 | 6.4 | 3.6 | 19.5 | 6.0 | 3.5 | 4.9 | 1.1 | 1.1 |
| 106610339 | hadh | fatty acid metabolism | 163.2 | 141.9 | 159.4 | 173.4 | 287.1 | 406.5 | 148.9 | 136.2 | 123.8 | 128.0 | 167.2 | 162.6 |
| 100136433 | elovl5\_2 | fatty acid metabolism | 29.3 | 35.6 | 32.3 | 93.8 | 279.0 | 459.2 | 65.4 | 172.7 | 249.1 | 75.9 | 411.0 | 532.1 |
| 106611334 | hadha\_1 | fatty acid metabolism | 87.1 | 73.0 | 59.4 | 80.3 | 127.6 | 174.1 | 105.3 | 112.5 | 118.2 | 122.8 | 132.2 | 136.0 |
| 106611586 | elovl6\_2 | fatty acid metabolism | 2.2 | 3.0 | 4.1 | 2.0 | 1.1 | 1.9 | 23.7 | 1.8 | 1.9 | 2.6 | 994.1 | 1124.9 |
| 100195398 | aldh3a2a | fatty acid metabolism | 0.3 | 0.6 | 0.6 | 14.1 | 106.3 | 57.2 | 0.9 | 12.3 | 11.1 | 1.2 | 1.6 | 1.1 |
| 106612015 | acsl1b | fatty acid metabolism | 5.0 | 6.7 | 4.9 | 9.6 | 9.3 | 11.9 | 14.6 | 13.4 | 13.8 | 1.5 | 9.4 | 11.9 |
| 106613112 | acsl3e | fatty acid metabolism | 0.0 | 0.3 | 0.0 | 0.1 | 0.1 | 0.0 | 0.1 | 0.0 | 0.1 | 0.0 | 0.8 | 5.5 |
| 106613121 | acsl3b\_2 | fatty acid metabolism | 0.1 | 1.1 | 0.4 | 0.4 | 0.2 | 0.1 | 0.4 | 0.3 | 0.2 | 0.0 | 3.7 | 12.4 |
| 106613311 | aldh16a1a\_2 | fatty acid metabolism | 0.2 | 0.3 | 0.3 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.1 | 0.3 | 0.2 | 0.4 |
| 106613536 | elovl8b | fatty acid metabolism | 9.1 | 13.5 | 14.3 | 81.9 | 117.1 | 174.1 | 61.8 | 71.8 | 79.8 | 107.6 | 156.0 | 161.3 |
| 100195361 | elovl1b\_2 | fatty acid metabolism | 6.2 | 4.4 | 10.6 | 4.1 | 2.3 | 1.7 | 3.7 | 2.3 | 1.9 | 0.1 | 0.4 | 0.4 |
| 106561537 | fatp4a\_1 | fatty acid metabolism | 2.9 | 4.1 | 4.1 | 2.1 | 9.1 | 9.4 | 1.1 | 4.1 | 4.8 | 2.0 | 3.0 | 3.0 |
| 106613839 | acsbg2b\_2 | fatty acid metabolism | 6.0 | 7.6 | 5.0 | 4.9 | 6.2 | 6.2 | 5.6 | 7.8 | 7.8 | 2.1 | 3.6 | 4.6 |
| 106560431 | cpt2 | fatty acid metabolism | 25.1 | 28.6 | 25.1 | 24.0 | 51.5 | 62.3 | 30.7 | 31.9 | 30.7 | 35.0 | 35.9 | 38.7 |
| 100195073 | aldh9a1 | fatty acid metabolism | 69.7 | 72.9 | 71.3 | 266.5 | 440.1 | 605.3 | 311.5 | 518.9 | 530.6 | 270.1 | 252.3 | 179.8 |
| 106560707 | cpt1aa | fatty acid metabolism | 36.1 | 18.0 | 17.9 | 64.0 | 116.3 | 149.8 | 71.5 | 67.8 | 64.4 | 26.3 | 12.2 | 9.0 |
| 106560816 | got2ab\_2 | fatty acid metabolism | 26.3 | 26.1 | 25.7 | 41.7 | 40.4 | 51.3 | 20.7 | 28.5 | 27.9 | 17.0 | 22.7 | 19.0 |
| 106561238 | cpt1b\_2 | fatty acid metabolism | 11.2 | 2.7 | 2.0 | 2.5 | 0.7 | 0.8 | 4.8 | 0.3 | 0.3 | 5.9 | 0.1 | 0.2 |
| 106562243 | got2aa\_1 | fatty acid metabolism | 43.1 | 68.8 | 48.4 | 130.7 | 187.1 | 251.1 | 29.6 | 100.6 | 90.6 | 371.6 | 455.2 | 404.4 |
| 106562860 | fatp2d | fatty acid metabolism | 0.6 | 0.7 | 1.0 | 0.2 | 0.3 | 0.1 | 0.1 | 0.0 | 0.0 | 1.8 | 1.2 | 2.4 |
| 106563087 | acads\_1 | fatty acid metabolism | 7.0 | 7.3 | 7.5 | 11.6 | 16.3 | 21.5 | 10.2 | 9.8 | 10.5 | 15.2 | 13.4 | 15.6 |
| 106563252 | fabp1b | fatty acid metabolism | 2.2 | 2.7 | 9.1 | 1661.0 | 2118.3 | 5904.1 | 1028.3 | 621.9 | 689.5 | 67.6 | 35.1 | 16.7 |
| 106564571 | gcdhb | fatty acid metabolism | 6.0 | 4.5 | 2.7 | 2.1 | 2.1 | 2.6 | 7.9 | 18.2 | 14.7 | 27.2 | 43.3 | 27.4 |
| 100380782 | acox1a | fatty acid metabolism | 25.7 | 29.0 | 22.5 | 112.3 | 209.0 | 213.4 | 72.6 | 106.3 | 83.5 | 161.3 | 156.4 | 142.1 |
| 106568363 | acads\_2 | fatty acid metabolism | 14.1 | 19.5 | 17.6 | 14.0 | 32.1 | 44.2 | 15.0 | 24.8 | 25.5 | 14.6 | 19.4 | 20.3 |
| 106567475 | fabp6\_2 | fatty acid metabolism | 5.2 | 5.9 | 101.9 | 72.7 | 68.8 | 29.0 | 5400.3 | 11615.3 | 17251.1 | 12.6 | 0.7 | 0.6 |
| 106567519 | acsl6\_1 | fatty acid metabolism | 1.0 | 0.9 | 0.8 | 2.5 | 2.4 | 1.7 | 2.1 | 1.7 | 1.8 | 0.4 | 0.2 | 0.6 |
| 100380405 | acsl4a\_2 | fatty acid metabolism | 7.1 | 9.6 | 7.8 | 5.5 | 6.6 | 5.6 | 4.8 | 8.5 | 8.5 | 8.4 | 10.4 | 10.6 |
| 100380405 | acsl4 | fatty acid metabolism | 7.1 | 9.6 | 7.8 | 5.5 | 6.6 | 5.6 | 4.8 | 8.5 | 8.5 | 8.4 | 10.4 | 10.6 |
| 106568426 | fatp4a\_2` | fatty acid metabolism | 0.4 | 3.4 | 1.1 | 7.4 | 25.5 | 63.7 | 1.6 | 6.3 | 5.1 | 0.4 | 2.2 | 3.0 |
| 100194754 | aldh7a1 | fatty acid metabolism | 79.4 | 111.8 | 89.7 | 98.0 | 150.0 | 216.2 | 68.4 | 104.5 | 95.7 | 174.0 | 268.6 | 227.9 |
| 106568892 | abcd3a\_1 | fatty acid metabolism | 6.9 | 8.4 | 8.5 | 7.3 | 10.8 | 10.0 | 6.9 | 9.2 | 9.3 | 5.6 | 8.8 | 8.2 |
| 106571348 | elovl7ba | fatty acid metabolism | 40.1 | 72.9 | 48.0 | 7.2 | 3.2 | 3.1 | 3.0 | 5.4 | 5.0 | 3.0 | 3.2 | 4.9 |
| 106568845 | acsl3a\_1 | fatty acid metabolism | 2.6 | 4.2 | 4.2 | 2.7 | 3.4 | 2.7 | 2.7 | 3.8 | 4.0 | 2.5 | 4.3 | 4.4 |
| 106571818 | fatp6b | fatty acid metabolism | 1.5 | 1.1 | 0.8 | 9.2 | 4.3 | 4.0 | 6.4 | 3.7 | 3.2 | 63.5 | 34.1 | 24.3 |
| 106571805 | fatp6a | fatty acid metabolism | 1.6 | 1.0 | 0.7 | 1.4 | 0.8 | 0.6 | 2.7 | 1.2 | 0.8 | 4.3 | 0.5 | 0.7 |
| 100194550 | adadm | fatty acid metabolism | 100.8 | 100.8 | 104.0 | 105.3 | 178.9 | 234.6 | 90.1 | 77.7 | 74.0 | 176.6 | 152.7 | 159.9 |
| 106570598 | fabp3\_2 | fatty acid metabolism | 96.0 | 67.8 | 100.5 | 32.2 | 48.7 | 26.3 | 42.8 | 43.2 | 41.8 | 862.4 | 1690.3 | 2048.9 |
| 100196877 | fabp7a | fatty acid metabolism | 24.4 | 15.5 | 15.5 | 11.8 | 10.9 | 3.7 | 10.2 | 15.1 | 9.3 | 2.5 | 0.1 | 0.1 |
| 106571493 | elovl4b | fatty acid metabolism | 2.4 | 3.8 | 3.6 | 2.1 | 2.7 | 2.3 | 1.8 | 2.3 | 1.9 | 2.4 | 1.3 | 1.5 |
| 106573415 | cpt1b\_1 | fatty acid metabolism | 5.3 | 0.5 | 1.3 | 1.0 | 0.2 | 0.3 | 0.8 | 0.1 | 0.1 | 25.6 | 6.1 | 11.0 |
| 106573756 | got2ab\_1 | fatty acid metabolism | 19.7 | 25.9 | 22.0 | 17.7 | 33.1 | 44.8 | 8.9 | 21.1 | 19.3 | 14.1 | 27.3 | 21.4 |
| 100286454 | elovl1b\_1 | fatty acid metabolism | 138.7 | 164.5 | 140.8 | 194.2 | 347.1 | 391.3 | 209.8 | 238.8 | 214.5 | 173.1 | 208.1 | 192.7 |
| 106575476 | acadsba | fatty acid metabolism | 15.6 | 13.5 | 13.6 | 11.3 | 10.9 | 11.9 | 17.7 | 17.3 | 18.0 | 10.6 | 8.1 | 8.3 |
| 106575817 | acadl | fatty acid metabolism | 46.6 | 44.6 | 48.4 | 68.4 | 108.5 | 138.9 | 47.6 | 57.5 | 54.6 | 68.4 | 72.2 | 79.1 |
| 106575983 | abcd1\_1 | fatty acid metabolism | 4.7 | 2.7 | 2.6 | 1.0 | 0.7 | 0.5 | 1.1 | 0.6 | 0.5 | 12.8 | 7.1 | 5.3 |
| 106576427 | cd36\_1 | fatty acid metabolism | 1.1 | 1.4 | 1.9 | 442.7 | 653.2 | 822.7 | 16.0 | 110.8 | 81.7 | 1.4 | 0.0 | 0.4 |
| 100194570 | echs1 | fatty acid metabolism | 117.3 | 87.1 | 92.0 | 112.8 | 114.1 | 143.6 | 79.8 | 106.3 | 106.1 | 116.6 | 122.0 | 109.8 |
| 106578507 | aldh2 | fatty acid metabolism | 264.2 | 509.6 | 478.7 | 285.0 | 502.1 | 727.7 | 149.6 | 348.3 | 371.8 | 256.9 | 359.5 | 339.5 |
| 106577431 | acadsb2 | fatty acid metabolism | 1.3 | 2.3 | 1.9 | 1.3 | 1.3 | 1.9 | 2.0 | 1.4 | 1.4 | 1.2 | 2.0 | 1.6 |
| 106578486 | abcd3b\_1 | fatty acid metabolism | 1.4 | 1.3 | 1.3 | 77.4 | 192.1 | 234.8 | 12.0 | 25.5 | 13.2 | 46.8 | 98.7 | 99.8 |
| 100196721 | peci\_2 | fatty acid metabolism | 9.8 | 6.5 | 7.6 | 21.9 | 38.0 | 37.3 | 21.4 | 24.7 | 23.0 | 61.2 | 47.2 | 45.7 |
| 106579121 | acsl5 | fatty acid metabolism | 34.6 | 31.6 | 28.1 | 390.0 | 402.3 | 526.0 | 86.2 | 142.3 | 148.7 | 1.7 | 0.4 | 0.4 |
| 100192341 | elovl2 | fatty acid metabolism | 0.4 | 1.5 | 2.4 | 205.6 | 1118.0 | 1408.0 | 17.6 | 142.6 | 62.4 | 435.0 | 1081.7 | 768.8 |
| 106579756 | acaa1a | fatty acid metabolism | 5.3 | 16.1 | 14.3 | 39.8 | 109.5 | 116.7 | 32.0 | 64.3 | 60.3 | 19.0 | 37.7 | 29.1 |
| 106579772 | acaa1b | fatty acid metabolism | 2.7 | 10.1 | 7.9 | 27.4 | 62.8 | 71.3 | 18.5 | 34.7 | 37.3 | 11.8 | 25.5 | 16.3 |
| 106580039 | acsbg2a\_1 | fatty acid metabolism | 7.9 | 1.2 | 2.1 | 68.3 | 150.6 | 164.9 | 90.8 | 92.6 | 58.0 | 37.6 | 107.9 | 117.4 |
| 106580430 | thim\_1 | fatty acid metabolism | 35.7 | 44.3 | 51.1 | 34.2 | 88.8 | 144.3 | 32.8 | 63.7 | 80.3 | 6.3 | 4.3 | 5.9 |
| 106580590 | elovl7bb\_1 | fatty acid metabolism | 5.7 | 2.9 | 3.7 | 3.3 | 2.8 | 2.9 | 1.5 | 2.3 | 1.6 | 2.2 | 4.3 | 3.0 |
| 106581298 | acsl3b\_1 | fatty acid metabolism | 1.1 | 2.9 | 1.6 | 0.6 | 1.1 | 0.9 | 0.5 | 2.7 | 1.7 | 0.1 | 1.6 | 1.1 |
| 106581311 | acsl3c | fatty acid metabolism | 0.5 | 1.7 | 0.9 | 0.2 | 0.5 | 0.5 | 0.2 | 1.4 | 0.9 | 0.0 | 0.9 | 0.5 |
| 106582922 | fabp10a\_1 | fatty acid metabolism | 22.6 | 18.8 | 8.5 | 29.2 | 6.4 | 15.4 | 397.8 | 3.6 | 12.6 | 120862.8 | 54599.6 | 38076.9 |
| 100286782 | aldh3a2c | fatty acid metabolism | 10.3 | 12.1 | 10.6 | 12.6 | 20.2 | 22.1 | 10.7 | 16.9 | 17.2 | 22.0 | 21.3 | 24.2 |
| 100195275 | ehhadhb | fatty acid metabolism | 1.8 | 2.8 | 2.3 | 12.1 | 21.1 | 23.9 | 9.8 | 12.8 | 14.1 | 50.7 | 42.2 | 29.9 |
| 100195275 | ehhadha | fatty acid metabolism | 5.7 | 5.6 | 6.4 | 32.7 | 41.8 | 53.3 | 18.8 | 28.0 | 31.5 | 112.2 | 100.3 | 86.8 |
| 106584374 | acsbg2b\_1 | fatty acid metabolism | 7.6 | 11.9 | 9.9 | 5.4 | 7.4 | 4.7 | 4.0 | 6.4 | 5.7 | 2.3 | 4.5 | 6.0 |
| 106584725 | fatp2e | fatty acid metabolism | 6.1 | 19.7 | 8.7 | 69.1 | 96.9 | 105.5 | 54.5 | 86.3 | 86.3 | 113.1 | 266.9 | 285.4 |
| 100136441 | Δ6fads\_1 | fatty acid metabolism | 1.5 | 9.6 | 7.5 | 320.0 | 1760.6 | 2401.6 | 37.0 | 212.5 | 130.1 | 382.3 | 2782.7 | 2692.6 |
| 100329172 | Δ6fads\_3 | fatty acid metabolism | 0.7 | 0.4 | 0.6 | 1.4 | 3.2 | 2.9 | 1.1 | 1.2 | 0.8 | 0.6 | 2.5 | 3.4 |
| 100136383 | Δ5fads | fatty acid metabolism | 5.2 | 8.8 | 7.6 | 65.7 | 294.1 | 567.4 | 16.5 | 72.2 | 60.9 | 419.1 | 1561.7 | 1169.8 |
| 106584797 | Δ6fads \_2 | fatty acid metabolism | 0.7 | 1.3 | 1.2 | 0.7 | 9.1 | 11.1 | 0.5 | 3.7 | 3.5 | 1.2 | 11.4 | 9.7 |
| 106585161 | elovl7bb\_2 | fatty acid metabolism | 10.2 | 12.5 | 8.9 | 2.7 | 1.5 | 1.4 | 1.6 | 1.2 | 1.2 | 1.0 | 0.8 | 0.9 |
| 100380562 | acox1b | fatty acid metabolism | 3.1 | 4.4 | 2.4 | 7.6 | 8.2 | 9.3 | 5.7 | 7.9 | 7.2 | 19.2 | 21.0 | 16.2 |
| 106585052 | thim\_2 | fatty acid metabolism | 37.9 | 30.8 | 36.4 | 57.6 | 102.7 | 142.3 | 46.1 | 62.3 | 59.9 | 3.7 | 1.9 | 2.3 |
| 106587404 | got2aa\_2 | fatty acid metabolism | 12.2 | 19.3 | 16.1 | 17.6 | 36.4 | 42.3 | 6.7 | 21.9 | 20.8 | 45.3 | 84.6 | 68.2 |
| 106587782 | cpt1ab | fatty acid metabolism | 1.1 | 1.2 | 1.2 | 1.3 | 1.7 | 2.2 | 1.2 | 1.3 | 1.4 | 2.2 | 3.8 | 2.9 |
| 106587894 | fatp2f | fatty acid metabolism | 1.7 | 2.1 | 2.4 | 67.5 | 134.4 | 163.3 | 32.0 | 69.0 | 90.2 | 46.4 | 28.0 | 36.3 |
| 100136444 | fabp3\_1 | fatty acid metabolism | 1469.7 | 1144.8 | 661.2 | 380.0 | 396.1 | 219.8 | 544.0 | 234.0 | 212.1 | 27.0 | 43.5 | 31.6 |
| 106589612 | fasn\_1 | fatty acid metabolism | 1.8 | 10.9 | 4.1 | 1.6 | 4.1 | 1.7 | 11.3 | 3.7 | 2.9 | 7.2 | 301.6 | 391.8 |
| 100192340 | elovl5\_1 | fatty acid metabolism | 0.1 | 0.4 | 0.1 | 0.4 | 12.4 | 46.9 | 13.9 | 0.2 | 0.4 | 42.5 | 749.4 | 741.5 |
| 106590083 | peci\_1 | fatty acid metabolism | 65.5 | 56.4 | 54.6 | 70.0 | 118.1 | 161.5 | 54.0 | 67.6 | 71.1 | 99.7 | 67.3 | 72.2 |
| 106590647 | abcd3b\_2 | fatty acid metabolism | 9.1 | 12.4 | 11.7 | 41.1 | 105.8 | 157.9 | 51.1 | 86.9 | 104.8 | 26.5 | 72.3 | 68.4 |
| 100136416 | cpt1ae | fatty acid metabolism | 1.7 | 2.0 | 1.9 | 2.4 | 3.8 | 4.6 | 2.0 | 3.1 | 3.2 | 3.2 | 6.1 | 5.0 |
| 106593544 | fatp2g | fatty acid metabolism | 1.7 | 3.0 | 2.9 | 91.4 | 267.7 | 281.9 | 91.9 | 203.3 | 215.9 | 344.1 | 288.9 | 222.9 |
| 106596253 | eci1b | fatty acid metabolism | 12.6 | 16.5 | 12.4 | 15.2 | 21.3 | 24.7 | 16.2 | 13.0 | 14.0 | 24.6 | 29.7 | 30.1 |
| 106592647 | eci1a | fatty acid metabolism | 8.3 | 7.4 | 7.0 | 11.0 | 11.7 | 10.4 | 9.3 | 7.9 | 8.9 | 15.0 | 13.9 | 15.3 |
| 106599146 | abcd3a\_2 | fatty acid metabolism | 7.5 | 8.6 | 8.6 | 8.9 | 13.0 | 13.6 | 9.1 | 9.0 | 9.0 | 8.1 | 10.1 | 9.5 |
| 100196775 | fatp2b | fatty acid metabolism | 0.1 | 0.2 | 0.1 | 0.2 | 0.3 | 0.1 | 0.0 | 0.0 | 0.0 | 12.8 | 5.7 | 5.5 |
| 106599520 | acsl3a\_2 | fatty acid metabolism | 2.3 | 4.9 | 2.6 | 2.0 | 2.0 | 2.5 | 1.6 | 2.7 | 3.0 | 1.3 | 3.4 | 3.4 |
| 106592274 | acsl3d | fatty acid metabolism | 0.0 | 0.6 | 0.1 | 0.1 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.9 | 4.0 |
| 106595315 | fatp2i | fatty acid metabolism | 1.3 | 0.7 | 1.0 | 55.6 | 149.1 | 135.2 | 62.8 | 112.1 | 123.9 | 409.5 | 327.0 | 282.2 |
| 106592234 | cpt1ac | fatty acid metabolism | 6.6 | 4.4 | 5.5 | 6.0 | 6.8 | 6.7 | 4.5 | 4.1 | 4.4 | 11.1 | 14.3 | 14.2 |
| 106600509 | adh5b | fatty acid metabolism | 51.7 | 148.0 | 177.8 | 56.7 | 61.3 | 28.1 | 113.0 | 106.5 | 59.0 | 50.7 | 107.6 | 31.4 |
| 106595539 | abcd4a | fatty acid metabolism | 3.7 | 4.4 | 4.1 | 6.0 | 10.2 | 13.3 | 31.3 | 62.9 | 65.5 | 3.7 | 2.4 | 2.5 |
| 106600758 | aldh16a1b | fatty acid metabolism | 14.6 | 14.3 | 12.4 | 25.7 | 36.0 | 43.1 | 18.0 | 21.1 | 20.5 | 35.7 | 33.7 | 33.5 |
| 106600940 | cpt1ad | fatty acid metabolism | 32.6 | 31.9 | 25.3 | 4.8 | 3.2 | 2.1 | 5.5 | 4.7 | 3.0 | 1.8 | 1.1 | 1.2 |
| 100196775 | fatp2a | fatty acid metabolism | 0.3 | 0.7 | 0.6 | 1.0 | 0.7 | 0.9 | 0.2 | 0.0 | 0.0 | 44.9 | 22.4 | 13.8 |
| 106594640 | fatp2h | fatty acid metabolism | 3.2 | 2.3 | 3.5 | 1.0 | 0.9 | 0.8 | 0.6 | 0.1 | 0.2 | 13.3 | 6.1 | 8.5 |
| 106601351 | gcdha\_1 | fatty acid metabolism | 13.7 | 14.6 | 15.1 | 13.4 | 20.0 | 21.1 | 14.5 | 17.4 | 17.7 | 99.2 | 116.3 | 120.6 |
| 100196775 | fatp2c | fatty acid metabolism | 1.8 | 1.9 | 2.1 | 2.3 | 3.0 | 4.0 | 0.6 | 0.3 | 0.4 | 187.9 | 73.1 | 65.8 |
| 106601639 | fatp4b | fatty acid metabolism | 3.7 | 3.9 | 3.4 | 5.1 | 5.0 | 5.4 | 5.9 | 4.2 | 3.8 | 12.8 | 12.0 | 11.1 |
| 106601642 | fatp4c\_2 | fatty acid metabolism | 5.9 | 4.9 | 5.0 | 7.1 | 6.3 | 6.8 | 7.9 | 4.0 | 4.6 | 17.7 | 14.2 | 13.2 |
| 106603767 | hadha\_2 | fatty acid metabolism | 50.3 | 52.3 | 44.3 | 64.2 | 100.8 | 134.2 | 59.6 | 76.1 | 77.3 | 39.5 | 41.3 | 44.9 |
| 106602733 | fabp2a\_1 | fatty acid metabolism | 90.8 | 232.9 | 134.7 | 5554.9 | 13292.2 | 21197.3 | 26.7 | 1010.8 | 40.7 | 71.9 | 23.0 | 36.7 |
| 100380286 | acsl1 | fatty acid metabolism | 20.5 | 11.8 | 11.0 | 5.2 | 3.1 | 2.5 | 5.2 | 2.6 | 2.3 | 3.0 | 1.1 | 1.2 |
| 100380286 | acsl1a\_1 | fatty acid metabolism | 20.5 | 11.8 | 11.0 | 5.2 | 3.1 | 2.5 | 5.2 | 2.6 | 2.3 | 3.0 | 1.1 | 1.2 |
| 106602820 | acadvl | fatty acid metabolism | 68.9 | 86.5 | 72.3 | 60.6 | 134.9 | 182.6 | 70.2 | 111.6 | 102.1 | 56.3 | 90.4 | 96.4 |
| 106602847 | aldh3a2b | fatty acid metabolism | 43.4 | 65.0 | 51.4 | 154.6 | 268.2 | 302.7 | 50.1 | 105.1 | 94.7 | 215.7 | 158.9 | 139.9 |
| 106603377 | acsl4a\_1 | fatty acid metabolism | 2.2 | 3.5 | 2.9 | 2.1 | 1.5 | 1.4 | 1.2 | 2.2 | 2.7 | 3.9 | 4.2 | 4.2 |
| 100196767 | sar1ba\_1 | Lipoprotein formation | 48.5 | 80.7 | 66.8 | 77.0 | 196.9 | 274.2 | 50.7 | 93.9 | 93.5 | 99.2 | 252.1 | 194.6 |
| 106605691 | apoa4c\_2 | Lipoprotein formation | 0.1 | 0.7 | 0.9 | 13.3 | 276.0 | 655.7 | 47.6 | 53.2 | 76.4 | 33.4 | 112.3 | 216.0 |
| 106605692 | apoa4b\_2 | Lipoprotein formation | 9.7 | 16.8 | 14.2 | 324.4 | 1756.3 | 4138.8 | 154.6 | 268.6 | 343.3 | 575.3 | 704.2 | 1053.5 |
| 106607045 | ldlraa\_2 | Lipoprotein formation | 0.2 | 0.1 | 0.1 | 5.9 | 0.2 | 0.1 | 5.0 | 0.8 | 0.9 | 106.9 | 35.2 | 63.6 |
| 106608453 | sar1a\_1 | Lipoprotein formation | 0.9 | 0.5 | 0.2 | 0.2 | 0.2 | 0.2 | 0.5 | 0.1 | 0.1 | 1.8 | 2.5 | 1.5 |
| 106609996 | mtp\_2 | Lipoprotein formation | 6.0 | 5.9 | 5.3 | 78.7 | 147.4 | 199.2 | 29.1 | 56.7 | 66.4 | 120.2 | 179.5 | 187.4 |
| 106611125 | apoba | Lipoprotein formation | 0.2 | 0.2 | 0.1 | 0.4 | 0.1 | 0.3 | 8.7 | 0.1 | 0.1 | 645.4 | 540.7 | 519.6 |
| 100196111 | apoa1\_2 | Lipoprotein formation | 6.5 | 25.8 | 34.1 | 1731.5 | 12219.2 | 22354.3 | 225.6 | 1100.4 | 1286.4 | 33.2 | 3060.6 | 5007.5 |
| 106560851 | sar1bb\_1 | Lipoprotein formation | 2.7 | 3.7 | 3.3 | 4.7 | 8.2 | 10.9 | 5.6 | 6.7 | 7.7 | 8.9 | 13.4 | 17.8 |
| 106564497 | ldlrab\_1 | Lipoprotein formation | 7.4 | 15.6 | 16.1 | 8.0 | 16.2 | 10.3 | 9.4 | 26.9 | 21.8 | 1.1 | 6.1 | 6.7 |
| 106565466 | lrp1a\_1 | Lipoprotein formation | 3.8 | 3.5 | 4.4 | 2.7 | 1.6 | 1.6 | 3.5 | 3.1 | 2.6 | 0.8 | 0.5 | 0.6 |
| 106569632 | apoa4a\_2 | Lipoprotein formation | 0.2 | 2.5 | 1.3 | 50.2 | 139.7 | 665.0 | 53.0 | 38.6 | 72.8 | 0.9 | 0.1 | 0.3 |
| 106567057 | lrp1b\_1 | Lipoprotein formation | 4.2 | 5.9 | 7.1 | 6.7 | 6.0 | 5.6 | 6.7 | 5.4 | 5.5 | 36.1 | 58.3 | 74.1 |
| 106567531 | sar1ba\_2 | Lipoprotein formation | 41.7 | 65.5 | 52.9 | 74.4 | 149.0 | 195.1 | 59.5 | 107.8 | 106.7 | 141.9 | 214.8 | 196.2 |
| 100136579 | apobc | Lipoprotein formation | 1.4 | 2.1 | 0.7 | 19.7 | 1.8 | 3.2 | 96.1 | 0.8 | 1.3 | 4256.1 | 6331.7 | 4417.7 |
| 106571178 | apobb | Lipoprotein formation | 3.0 | 10.0 | 10.0 | 730.0 | 1548.8 | 2207.6 | 77.8 | 353.7 | 408.2 | 962.1 | 1970.1 | 3104.5 |
| 106572649 | lrp1d | Lipoprotein formation | 0.3 | 0.5 | 0.3 | 0.8 | 0.4 | 0.4 | 0.7 | 0.8 | 0.9 | 0.2 | 0.1 | 0.0 |
| 106572662 | lrp1b\_2 | Lipoprotein formation | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.0 | 0.0 | 0.0 |
| 106577499 | apoa4b\_1 | Lipoprotein formation | 1.5 | 3.1 | 2.8 | 218.0 | 528.1 | 1243.3 | 65.4 | 101.8 | 177.3 | 330.1 | 161.9 | 173.5 |
| 106577505 | apoa4c\_1 | Lipoprotein formation | 1.5 | 11.4 | 12.2 | 1561.2 | 3723.5 | 6553.5 | 237.5 | 734.2 | 960.1 | 368.3 | 701.3 | 568.7 |
| 106577216 | sar1a\_2 | Lipoprotein formation | 1.5 | 1.6 | 1.6 | 3.5 | 6.5 | 8.6 | 1.9 | 3.6 | 3.4 | 2.4 | 2.2 | 2.4 |
| 106577347 | sar1bb\_2 | Lipoprotein formation | 2.4 | 3.5 | 2.7 | 4.2 | 7.5 | 11.5 | 6.0 | 7.8 | 8.8 | 6.4 | 9.4 | 8.0 |
| 100136573 | apoa1\_1 | Lipoprotein formation | 13.5 | 34.2 | 16.3 | 890.3 | 2271.7 | 6740.8 | 693.2 | 211.5 | 485.8 | 37902.8 | 43782.8 | 35319.1 |
| 106583141 | lrp1a\_2 | Lipoprotein formation | 1.3 | 1.3 | 1.6 | 1.5 | 1.2 | 1.0 | 1.1 | 1.7 | 1.5 | 0.6 | 0.6 | 0.6 |
| 106586541 | apoa4a\_1 | Lipoprotein formation | 0.7 | 9.5 | 2.5 | 44.8 | 923.2 | 3409.2 | 137.1 | 147.6 | 277.2 | 4.4 | 0.9 | 0.5 |
| 106590115 | ldlrab\_2 | Lipoprotein formation | 9.1 | 26.3 | 19.8 | 4.5 | 12.7 | 7.9 | 2.6 | 14.3 | 11.6 | 0.7 | 0.7 | 0.7 |
| 106592319 | lrp1c | Lipoprotein formation | 0.1 | 0.3 | 0.1 | 0.4 | 0.2 | 0.3 | 0.2 | 0.3 | 0.5 | 0.0 | 0.0 | 0.0 |
| 106601326 | ldlraa\_1 | Lipoprotein formation | 0.1 | 0.1 | 0.1 | 1.2 | 0.1 | 0.1 | 2.9 | 1.0 | 0.9 | 26.3 | 36.6 | 44.8 |
| 106602715 | mtp\_1 | Lipoprotein formation | 0.0 | 0.1 | 0.2 | 54.5 | 87.4 | 144.5 | 2.2 | 6.5 | 6.6 | 38.4 | 48.8 | 46.1 |
| 106603538 | dgat2\_1 | PL and TAG metabolism | 0.1 | 0.1 | 0.3 | 95.4 | 118.1 | 135.6 | 5.5 | 5.1 | 0.4 | 274.8 | 105.9 | 120.3 |
| 100195689 | mogat2\_1 | PL and TAG metabolism | 0.7 | 1.7 | 3.4 | 105.8 | 153.6 | 178.1 | 4.4 | 35.0 | 35.6 | 41.3 | 7.9 | 8.6 |
| 106605098 | lpcat3\_2 | PL and TAG metabolism | 2.6 | 3.7 | 2.6 | 7.3 | 14.3 | 23.4 | 4.4 | 6.1 | 6.2 | 2.8 | 6.1 | 7.0 |
| 106606425 | pcyt2b | PL and TAG metabolism | 0.4 | 0.6 | 0.9 | 0.7 | 0.8 | 2.9 | 2.5 | 6.0 | 6.2 | 0.0 | 0.0 | 0.0 |
| 106606443 | pcyt2c\_2 | PL and TAG metabolism | 0.3 | 0.7 | 0.8 | 0.3 | 1.8 | 5.9 | 0.3 | 2.0 | 3.5 | 0.0 | 0.0 | 0.0 |
| 106606828 | plpp3d | PL and TAG metabolism | 3.4 | 6.3 | 6.3 | 15.9 | 15.0 | 15.9 | 9.3 | 10.8 | 9.8 | 41.6 | 49.4 | 59.3 |
| 106607581 | lpgat1\_2 | PL and TAG metabolism | 0.8 | 0.9 | 0.7 | 1.8 | 2.7 | 3.4 | 1.5 | 2.6 | 2.7 | 1.1 | 0.8 | 0.7 |
| 106607658 | mboat2b\_2 | PL and TAG metabolism | 8.0 | 4.5 | 8.1 | 5.6 | 2.1 | 1.7 | 5.7 | 2.6 | 2.3 | 2.6 | 1.8 | 1.7 |
| 100196731 | lpcat4\_1 | PL and TAG metabolism | 17.5 | 21.4 | 22.2 | 20.8 | 23.4 | 26.1 | 19.3 | 19.2 | 21.9 | 60.7 | 69.2 | 61.1 |
| 106609326 | etnk1\_2 | PL and TAG metabolism | 21.8 | 17.0 | 18.3 | 17.9 | 15.3 | 12.4 | 45.7 | 18.0 | 16.9 | 10.7 | 9.2 | 9.4 |
| 106609452 | chpt1\_1 | PL and TAG metabolism | 4.4 | 2.8 | 3.1 | 48.7 | 66.5 | 87.8 | 28.1 | 33.2 | 30.8 | 53.7 | 59.1 | 61.9 |
| 100196235 | agpat4\_2 | PL and TAG metabolism | 19.4 | 35.9 | 23.9 | 100.6 | 172.8 | 204.9 | 58.7 | 67.4 | 68.3 | 28.8 | 147.9 | 139.0 |
| 106612554 | agpat5\_2 | PL and TAG metabolism | 1.3 | 1.8 | 1.3 | 1.6 | 1.7 | 1.6 | 1.1 | 1.2 | 1.3 | 1.3 | 7.0 | 7.4 |
| 106610702 | mboat2a\_2 | PL and TAG metabolism | 9.9 | 14.8 | 17.7 | 7.2 | 4.1 | 8.0 | 15.3 | 17.6 | 23.3 | 7.2 | 4.0 | 4.7 |
| 106610734 | lpin1\_2 | PL and TAG metabolism | 5.0 | 3.0 | 2.1 | 10.3 | 4.4 | 2.2 | 7.7 | 4.5 | 3.7 | 24.7 | 11.5 | 3.9 |
| 100380610 | pgs1\_1 | PL and TAG metabolism | 9.0 | 6.0 | 5.9 | 15.5 | 10.0 | 12.3 | 5.9 | 5.7 | 5.1 | 10.9 | 10.1 | 7.4 |
| 106612410 | pcyt1aa | PL and TAG metabolism | 5.0 | 7.1 | 6.1 | 5.2 | 5.6 | 4.7 | 7.5 | 7.7 | 7.4 | 4.9 | 3.4 | 4.5 |
| 100195687 | plpp2b\_2 | PL and TAG metabolism | 7.9 | 6.1 | 8.8 | 7.7 | 10.0 | 13.4 | 9.5 | 7.4 | 9.1 | 2.2 | 2.7 | 3.0 |
| 106561845 | plpp1b\_1 | PL and TAG metabolism | 17.0 | 21.7 | 22.0 | 22.0 | 27.8 | 30.5 | 24.4 | 28.4 | 28.4 | 22.9 | 11.6 | 6.7 |
| 106560230 | plpp3a\_2 | PL and TAG metabolism | 9.8 | 12.9 | 11.9 | 17.7 | 15.5 | 12.7 | 25.2 | 13.6 | 14.2 | 44.7 | 21.1 | 27.7 |
| 106560699 | ptdss2 | PL and TAG metabolism | 2.0 | 3.0 | 2.0 | 4.0 | 2.9 | 3.5 | 2.2 | 2.4 | 2.7 | 8.5 | 26.4 | 20.8 |
| 106560813 | chka\_2 | PL and TAG metabolism | 4.4 | 3.9 | 4.1 | 13.8 | 6.5 | 12.6 | 7.7 | 3.9 | 5.0 | 8.5 | 2.5 | 1.9 |
| 106561237 | chkb | PL and TAG metabolism | 7.0 | 6.3 | 6.8 | 14.9 | 45.0 | 73.8 | 11.6 | 17.6 | 17.3 | 6.9 | 13.8 | 15.9 |
| 106563657 | gpat3a\_2 | PL and TAG metabolism | 15.1 | 12.0 | 11.1 | 7.4 | 5.9 | 5.2 | 6.7 | 4.9 | 5.1 | 16.6 | 39.6 | 48.8 |
| 106562418 | lpcat2\_2 | PL and TAG metabolism | 7.9 | 5.9 | 7.0 | 5.7 | 6.4 | 5.0 | 4.8 | 5.6 | 5.3 | 3.8 | 3.8 | 3.3 |
| 100380789 | lpcat2\_1 | PL and TAG metabolism | 10.7 | 8.5 | 9.8 | 9.5 | 9.5 | 7.3 | 8.7 | 7.0 | 6.1 | 7.2 | 4.0 | 4.0 |
| 106562956 | agpat2\_1 | PL and TAG metabolism | 1.2 | 2.2 | 1.4 | 1.4 | 0.8 | 0.8 | 0.6 | 1.0 | 0.9 | 0.2 | 0.1 | 0.2 |
| 106563023 | pisd\_1 | PL and TAG metabolism | 7.0 | 6.9 | 7.4 | 8.4 | 7.4 | 9.2 | 6.6 | 7.0 | 7.6 | 4.7 | 3.8 | 4.4 |
| 106563634 | pcyt1bb\_2 | PL and TAG metabolism | 0.0 | 0.0 | 0.1 | 13.7 | 18.8 | 36.4 | 4.1 | 5.2 | 6.8 | 0.6 | 2.2 | 8.2 |
| 106565215 | lpin3\_2 | PL and TAG metabolism | 7.4 | 9.6 | 7.2 | 10.5 | 24.0 | 28.8 | 12.8 | 16.6 | 15.6 | 12.7 | 4.5 | 6.0 |
| 100194840 | cept1a\_1 | PL and TAG metabolism | 7.9 | 8.1 | 8.0 | 9.6 | 16.3 | 16.1 | 8.7 | 14.9 | 16.9 | 19.3 | 15.4 | 13.7 |
| 106565623 | etnk2\_2 | PL and TAG metabolism | 7.6 | 12.6 | 9.3 | 11.7 | 48.7 | 89.9 | 3.9 | 24.8 | 27.1 | 6.5 | 9.8 | 12.2 |
| 100380321 | pisd\_2 | PL and TAG metabolism | 8.4 | 6.4 | 5.0 | 2.8 | 2.1 | 2.4 | 5.2 | 2.6 | 2.8 | 7.7 | 55.5 | 34.8 |
| 106568861 | agpat2\_2 | PL and TAG metabolism | 2.6 | 3.4 | 2.7 | 10.7 | 13.7 | 15.6 | 4.9 | 13.9 | 15.3 | 1.4 | 0.6 | 0.7 |
| 106566938 | cept1b\_1 | PL and TAG metabolism | 7.4 | 6.6 | 6.8 | 7.9 | 9.0 | 9.9 | 7.1 | 7.7 | 7.1 | 5.9 | 5.0 | 5.7 |
| 106566507 | mboat2a\_1 | PL and TAG metabolism | 19.6 | 20.2 | 18.9 | 6.8 | 3.0 | 3.1 | 12.0 | 8.2 | 9.0 | 11.3 | 16.3 | 19.5 |
| 106567949 | mogat2\_2 | PL and TAG metabolism | 36.8 | 24.2 | 19.4 | 177.2 | 151.4 | 193.0 | 102.2 | 103.3 | 124.2 | 1.0 | 0.4 | 0.5 |
| 106567948 | dgat2\_2 | PL and TAG metabolism | 0.4 | 44.1 | 10.8 | 3.9 | 29.9 | 17.7 | 7.2 | 12.4 | 9.9 | 8.7 | 134.8 | 241.8 |
| 100196460 | gpat3a\_1 | PL and TAG metabolism | 10.0 | 17.7 | 11.6 | 6.1 | 5.1 | 4.0 | 6.3 | 6.0 | 5.6 | 10.6 | 52.6 | 42.4 |
| 106568407 | plpp1b\_2 | PL and TAG metabolism | 22.3 | 25.2 | 25.8 | 32.0 | 31.5 | 34.1 | 20.6 | 20.5 | 19.9 | 14.4 | 9.8 | 11.5 |
| 106568933 | pcyt1ab\_1 | PL and TAG metabolism | 6.1 | 12.0 | 9.5 | 2.3 | 5.4 | 7.5 | 2.3 | 4.9 | 5.8 | 3.1 | 8.1 | 8.3 |
| 106569302 | plpp3b\_1 | PL and TAG metabolism | 4.8 | 3.5 | 4.2 | 3.7 | 3.0 | 3.1 | 2.6 | 2.9 | 2.8 | 3.5 | 1.3 | 2.0 |
| 106570327 | lpcat1a | PL and TAG metabolism | 6.0 | 4.3 | 6.1 | 6.7 | 7.4 | 6.0 | 12.2 | 8.0 | 8.8 | 6.6 | 7.9 | 7.9 |
| 106570407 | dgat1a\_1 | PL and TAG metabolism | 1.7 | 15.7 | 4.5 | 39.7 | 42.4 | 40.2 | 68.0 | 53.1 | 49.1 | 17.7 | 15.3 | 6.7 |
| 106570478 | ptdss1c\_1 | PL and TAG metabolism | 0.4 | 0.8 | 0.6 | 1.0 | 0.8 | 0.9 | 1.3 | 1.3 | 1.2 | 0.8 | 0.9 | 0.5 |
| 106570052 | lpin1\_1 | PL and TAG metabolism | 0.4 | 0.4 | 0.3 | 0.4 | 0.2 | 0.2 | 0.5 | 0.2 | 0.2 | 0.7 | 1.7 | 2.9 |
| 106570914 | cds1a | PL and TAG metabolism | 0.4 | 0.2 | 0.2 | 1.9 | 2.4 | 1.3 | 0.6 | 0.7 | 0.4 | 0.8 | 0.3 | 0.5 |
| 106571011 | ept1\_b | PL and TAG metabolism | 5.3 | 11.3 | 8.0 | 10.3 | 18.7 | 24.4 | 10.8 | 17.4 | 20.9 | 8.2 | 13.2 | 13.4 |
| 106571200 | lpgat1\_1 | PL and TAG metabolism | 1.3 | 1.9 | 1.5 | 4.0 | 10.5 | 15.4 | 3.9 | 7.0 | 7.8 | 0.5 | 1.0 | 1.8 |
| 106571255 | mboat2b\_1 | PL and TAG metabolism | 3.7 | 3.7 | 4.5 | 1.6 | 1.6 | 1.5 | 1.8 | 2.2 | 1.9 | 0.9 | 0.7 | 0.7 |
| 106572169 | cept1b\_2 | PL and TAG metabolism | 13.3 | 12.1 | 10.3 | 5.6 | 5.9 | 4.8 | 4.5 | 5.0 | 5.1 | 3.9 | 3.5 | 3.3 |
| 100286735 | pss | PL and TAG metabolism | 0.6 | 0.2 | 0.3 | 0.4 | 0.1 | 0.1 | 1.0 | 0.3 | 0.4 | 0.1 | 0.0 | 0.0 |
| 106572982 | taz\_2 | PL and TAG metabolism | 31.0 | 22.2 | 20.5 | 36.2 | 27.4 | 27.5 | 31.9 | 19.5 | 18.6 | 26.2 | 21.0 | 21.5 |
| 100196028 | taz\_1 | PL and TAG metabolism | 15.5 | 14.4 | 10.8 | 18.9 | 15.4 | 17.6 | 16.0 | 14.1 | 11.6 | 15.5 | 12.3 | 11.3 |
| 106573758 | chka\_1 | PL and TAG metabolism | 1.7 | 7.6 | 7.5 | 9.2 | 8.4 | 17.0 | 3.9 | 1.3 | 0.9 | 36.0 | 25.3 | 28.0 |
| 106574312 | agpat3a\_2 | PL and TAG metabolism | 16.5 | 13.5 | 11.0 | 26.4 | 19.5 | 26.6 | 23.6 | 14.5 | 13.7 | 16.9 | 14.8 | 16.2 |
| 106574497 | plpp2a\_1 | PL and TAG metabolism | 3.1 | 4.6 | 2.6 | 1.9 | 1.2 | 1.3 | 1.8 | 1.5 | 1.3 | 3.6 | 0.8 | 1.1 |
| 100195109 | agpat3a\_1 | PL and TAG metabolism | 35.2 | 26.9 | 24.6 | 129.9 | 143.1 | 197.7 | 121.7 | 86.6 | 84.9 | 73.1 | 60.1 | 56.4 |
| 106575392 | plpp2a\_2 | PL and TAG metabolism | 7.4 | 8.8 | 5.9 | 5.5 | 7.3 | 5.2 | 8.0 | 11.4 | 11.4 | 5.8 | 1.4 | 1.8 |
| 106577207 | lpiat1 | PL and TAG metabolism | 13.5 | 17.0 | 15.2 | 11.8 | 20.0 | 21.8 | 13.6 | 19.0 | 18.6 | 7.9 | 35.0 | 38.6 |
| 106576151 | etnk1\_1 | PL and TAG metabolism | 65.6 | 77.9 | 83.2 | 24.2 | 25.0 | 19.3 | 39.0 | 28.7 | 30.0 | 12.7 | 8.7 | 9.7 |
| 106576273 | chpt1\_2 | PL and TAG metabolism | 8.4 | 10.9 | 9.4 | 53.4 | 109.3 | 152.2 | 24.5 | 43.5 | 46.5 | 42.8 | 104.1 | 90.8 |
| 106577939 | lpcat4\_2 | PL and TAG metabolism | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 106578451 | pcyt1ba\_1 | PL and TAG metabolism | 2.0 | 3.2 | 3.4 | 0.6 | 1.1 | 0.9 | 0.4 | 0.9 | 0.9 | 0.1 | 0.4 | 0.3 |
| 106578699 | lpin2\_1 | PL and TAG metabolism | 0.5 | 0.7 | 0.7 | 2.4 | 4.6 | 5.3 | 3.6 | 7.3 | 7.2 | 13.8 | 8.1 | 9.7 |
| 100196273 | pemt | PL and TAG metabolism | 14.5 | 15.9 | 15.7 | 22.2 | 25.0 | 31.6 | 17.3 | 17.0 | 15.9 | 33.4 | 41.3 | 34.3 |
| 106579146 | gpat1 | PL and TAG metabolism | 6.3 | 9.2 | 7.3 | 26.1 | 33.7 | 41.4 | 7.6 | 14.7 | 15.3 | 139.4 | 118.1 | 137.2 |
| 100195147 | gpat4b\_2 | PL and TAG metabolism | 0.9 | 0.7 | 0.7 | 1.0 | 0.7 | 0.5 | 1.2 | 0.8 | 0.7 | 1.0 | 0.6 | 0.9 |
| 106580447 | gpat2 | PL and TAG metabolism | 4.6 | 4.6 | 4.2 | 5.5 | 4.4 | 3.9 | 6.4 | 3.4 | 3.2 | 6.9 | 2.8 | 0.6 |
| 106580500 | cds2\_1 | PL and TAG metabolism | 2.7 | 3.2 | 3.4 | 2.1 | 1.7 | 1.3 | 2.4 | 2.0 | 1.7 | 3.5 | 2.3 | 2.3 |
| 106580584 | gpat3b\_1 | PL and TAG metabolism | 17.4 | 24.1 | 23.3 | 46.1 | 64.7 | 89.0 | 53.0 | 44.6 | 47.8 | 59.1 | 30.7 | 45.8 |
| 106580570 | plpp1a\_1 | PL and TAG metabolism | 0.4 | 1.3 | 1.2 | 0.3 | 0.6 | 0.2 | 0.2 | 0.6 | 0.4 | 0.1 | 1.3 | 0.5 |
| 106583352 | lpcat3\_1 | PL and TAG metabolism | 5.6 | 10.4 | 5.5 | 59.2 | 109.2 | 162.0 | 9.9 | 21.2 | 17.4 | 50.1 | 39.4 | 42.0 |
| 106582438 | agpat3b\_1 | PL and TAG metabolism | 5.6 | 4.4 | 3.4 | 4.0 | 2.3 | 1.9 | 2.4 | 2.3 | 2.5 | 12.1 | 2.9 | 2.2 |
| 106583121 | etnk2\_1 | PL and TAG metabolism | 0.5 | 1.8 | 1.0 | 1.2 | 1.7 | 2.0 | 3.0 | 3.2 | 3.4 | 0.5 | 0.4 | 0.2 |
| 106583483 | cept1a\_2 | PL and TAG metabolism | 6.6 | 6.9 | 6.7 | 4.8 | 7.2 | 5.9 | 8.6 | 8.0 | 8.9 | 17.2 | 13.4 | 13.9 |
| 106583597 | lpin3\_1 | PL and TAG metabolism | 1.8 | 2.3 | 1.1 | 2.6 | 2.3 | 2.3 | 3.0 | 2.4 | 1.9 | 1.8 | 1.1 | 0.8 |
| 106584209 | plpp3a\_1 | PL and TAG metabolism | 2.6 | 2.8 | 2.7 | 2.4 | 2.9 | 2.1 | 2.0 | 2.4 | 2.5 | 4.0 | 1.8 | 3.0 |
| 106584410 | plpp2b\_1 | PL and TAG metabolism | 5.1 | 8.1 | 6.8 | 5.7 | 6.7 | 7.2 | 7.7 | 10.0 | 9.6 | 2.4 | 1.1 | 0.8 |
| 106585174 | plpp1a\_2 | PL and TAG metabolism | 0.8 | 4.9 | 3.6 | 2.6 | 25.8 | 18.3 | 0.8 | 12.1 | 10.8 | 1.8 | 17.8 | 22.7 |
| 106585165 | gpat3b\_2 | PL and TAG metabolism | 4.3 | 15.1 | 14.4 | 71.4 | 83.2 | 105.3 | 38.3 | 51.4 | 45.0 | 3.0 | 9.7 | 12.4 |
| 106585108 | cds2\_2 | PL and TAG metabolism | 4.7 | 3.6 | 4.1 | 4.1 | 2.3 | 2.0 | 4.1 | 2.8 | 2.4 | 3.7 | 2.4 | 3.5 |
| 106585610 | gpat4b\_1 | PL and TAG metabolism | 3.9 | 2.6 | 2.2 | 2.5 | 1.9 | 1.3 | 2.5 | 1.8 | 1.7 | 1.9 | 0.7 | 0.6 |
| 106585948 | cds1b | PL and TAG metabolism | 3.9 | 3.7 | 2.8 | 13.4 | 15.8 | 16.7 | 12.2 | 14.0 | 12.6 | 13.1 | 11.4 | 8.8 |
| 106586274 | agpat3b\_2 | PL and TAG metabolism | 4.8 | 4.2 | 3.9 | 4.1 | 3.4 | 2.4 | 3.3 | 3.0 | 3.0 | 3.0 | 3.3 | 3.3 |
| 106588913 | ptdss1c\_2 | PL and TAG metabolism | 1.3 | 0.5 | 0.5 | 1.2 | 0.6 | 0.6 | 0.8 | 0.7 | 0.4 | 0.6 | 0.4 | 0.3 |
| 106588986 | dgat1a\_2 | PL and TAG metabolism | 3.1 | 5.9 | 4.1 | 12.9 | 26.9 | 32.1 | 12.7 | 27.8 | 30.4 | 1.4 | 2.2 | 1.9 |
| 106589751 | agpat4\_1 | PL and TAG metabolism | 10.5 | 20.4 | 19.7 | 2.1 | 1.1 | 0.7 | 2.0 | 2.2 | 1.8 | 0.3 | 0.4 | 0.5 |
| 106589814 | agpat5\_1 | PL and TAG metabolism | 12.6 | 17.8 | 18.2 | 5.9 | 6.5 | 5.9 | 3.1 | 3.8 | 3.5 | 9.1 | 12.3 | 11.8 |
| 106589835 | pgs1\_2 | PL and TAG metabolism | 3.7 | 3.0 | 2.7 | 3.7 | 3.3 | 3.2 | 2.7 | 2.9 | 2.6 | 1.7 | 2.0 | 1.6 |
| 106590143 | lpin2\_2 | PL and TAG metabolism | 19.8 | 10.6 | 12.1 | 16.7 | 16.4 | 17.6 | 29.5 | 28.0 | 32.3 | 7.3 | 4.9 | 8.0 |
| 100380284 | pcyt2a | PL and TAG metabolism | 17.0 | 21.1 | 12.7 | 31.2 | 36.0 | 53.1 | 35.5 | 31.3 | 36.4 | 49.2 | 44.0 | 39.7 |
| 106592432 | plpp3c | PL and TAG metabolism | 0.3 | 0.5 | 0.5 | 1.3 | 0.9 | 1.0 | 0.6 | 0.8 | 0.5 | 2.0 | 2.5 | 4.2 |
| 106590970 | ptdss1b | PL and TAG metabolism | 4.9 | 7.8 | 4.7 | 4.7 | 5.8 | 5.3 | 10.1 | 8.3 | 7.7 | 4.5 | 3.5 | 5.2 |
| 106593135 | mogat3a | PL and TAG metabolism | 0.1 | 2.4 | 0.5 | 0.6 | 1.2 | 0.1 | 1.0 | 0.3 | 0.4 | 34.9 | 52.3 | 49.6 |
| 106592264 | lpcat1b\_1 | PL and TAG metabolism | 0.2 | 0.2 | 0.2 | 0.1 | 0.3 | 0.3 | 0.1 | 0.3 | 0.5 | 0.1 | 0.6 | 0.3 |
| 106599064 | pcyt1ab\_2 | PL and TAG metabolism | 11.0 | 8.9 | 9.6 | 13.3 | 13.0 | 13.3 | 13.6 | 12.9 | 13.5 | 17.0 | 12.0 | 13.5 |
| 100380602 | crls1 | PL and TAG metabolism | 12.1 | 14.8 | 14.9 | 16.1 | 17.2 | 21.6 | 6.4 | 10.0 | 9.7 | 2.9 | 6.2 | 7.9 |
| 106600418 | plpp3b\_2 | PL and TAG metabolism | 10.4 | 9.0 | 13.6 | 5.6 | 3.6 | 3.0 | 4.3 | 4.2 | 3.7 | 2.9 | 0.7 | 1.0 |
| 106600754 | cdipt | PL and TAG metabolism | 18.2 | 21.9 | 21.8 | 17.8 | 22.4 | 23.8 | 19.8 | 21.5 | 21.0 | 18.9 | 32.3 | 26.2 |
| 106601632 | lclat1 | PL and TAG metabolism | 9.0 | 9.1 | 8.8 | 9.1 | 8.1 | 8.9 | 9.2 | 8.8 | 8.7 | 16.9 | 13.4 | 14.6 |
| 106594620 | ept1\_a | PL and TAG metabolism | 5.5 | 13.0 | 6.7 | 10.9 | 23.1 | 28.8 | 13.0 | 23.3 | 24.2 | 9.4 | 13.3 | 15.8 |
| 106595791 | ptdss1a | PL and TAG metabolism | 0.9 | 0.8 | 0.8 | 0.7 | 0.8 | 0.5 | 1.3 | 1.3 | 0.9 | 0.7 | 0.6 | 0.6 |
| 106601930 | pcyt2c\_1 | PL and TAG metabolism | 0.3 | 0.6 | 0.9 | 0.2 | 1.1 | 4.7 | 0.6 | 2.4 | 3.9 | 0.0 | 0.0 | 0.0 |
| 106603074 | pcyt1bb\_1 | PL and TAG metabolism | 0.3 | 0.5 | 0.7 | 47.3 | 68.4 | 105.4 | 13.4 | 19.3 | 24.0 | 28.7 | 35.1 | 32.3 |
| 106606082 | rxrba\_2 | Signalling | 57.4 | 55.3 | 53.0 | 56.9 | 55.3 | 57.3 | 67.7 | 57.2 | 55.6 | 68.0 | 62.1 | 67.5 |
| 100136415 | pparab\_1 | Signalling | 14.6 | 19.1 | 14.8 | 40.8 | 39.0 | 39.4 | 25.2 | 18.4 | 13.7 | 6.0 | 15.0 | 22.6 |
| 106561422 | fxr\_1 | Signalling | 0.0 | 0.1 | 0.1 | 6.9 | 12.2 | 16.8 | 4.1 | 7.5 | 9.9 | 94.7 | 66.3 | 55.2 |
| 106561932 | lxra\_2 | Signalling | 4.2 | 4.4 | 3.9 | 6.3 | 6.4 | 6.0 | 8.5 | 8.1 | 8.0 | 12.5 | 11.2 | 12.8 |
| 106563228 | rxraa\_1 | Signalling | 0.9 | 0.5 | 0.3 | 0.7 | 0.2 | 0.1 | 0.5 | 0.2 | 0.1 | 4.2 | 3.6 | 4.3 |
| 106565394 | rxraa\_2 | Signalling | 1.8 | 0.9 | 0.8 | 0.7 | 0.6 | 0.4 | 0.7 | 0.6 | 0.7 | 1.3 | 0.8 | 1.4 |
| 106566754 | pparg\_2 | Signalling | 0.1 | 0.8 | 0.7 | 5.3 | 11.7 | 16.4 | 3.3 | 8.4 | 10.8 | 0.2 | 0.5 | 2.4 |
| 106566994 | ppardb\_1 | Signalling | 3.2 | 3.5 | 2.3 | 1.8 | 1.7 | 1.9 | 1.8 | 2.0 | 1.9 | 2.8 | 4.5 | 5.5 |
| 106568909 | rxrgb\_2 | Signalling | 0.9 | 0.3 | 0.2 | 0.2 | 0.2 | 0.1 | 0.3 | 0.1 | 0.1 | 4.0 | 4.3 | 5.6 |
| 106569952 | rxrba\_3 | Signalling | 2.6 | 3.2 | 2.9 | 2.1 | 2.0 | 2.1 | 2.1 | 2.4 | 2.0 | 2.5 | 3.2 | 3.0 |
| 100136393 | pparg\_1 | Signalling | 4.7 | 4.4 | 4.3 | 29.9 | 51.4 | 59.1 | 36.8 | 49.3 | 50.2 | 67.5 | 34.7 | 30.4 |
| 100136536 | ppardb\_2 | Signalling | 0.7 | 0.5 | 0.4 | 0.4 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.8 | 0.7 | 0.5 |
| 106573302 | fxr\_2 | Signalling | 0.1 | 0.2 | 0.2 | 12.5 | 16.0 | 17.1 | 24.4 | 21.4 | 22.7 | 80.4 | 48.5 | 34.1 |
| 106583866 | pparg\_3 | Signalling | 1.8 | 3.1 | 1.3 | 4.6 | 5.8 | 8.3 | 5.2 | 3.6 | 4.2 | 6.0 | 1.6 | 2.2 |
| 106584489 | pparab\_2 | Signalling | 2.3 | 6.2 | 2.6 | 7.8 | 5.0 | 6.0 | 1.2 | 1.8 | 1.2 | 6.7 | 31.4 | 34.3 |
| 106585776 | rxraa\_3 | Signalling | 4.4 | 1.7 | 3.1 | 1.0 | 0.2 | 0.2 | 3.3 | 0.6 | 0.7 | 0.1 | 0.4 | 0.3 |
| 100270809 | lxra\_1 | Signalling | 8.3 | 7.7 | 6.9 | 11.2 | 12.9 | 14.1 | 17.4 | 16.2 | 18.0 | 25.9 | 13.6 | 15.7 |
| 106588394 | rxrba\_1 | Signalling | 9.6 | 7.8 | 9.0 | 7.3 | 6.1 | 5.7 | 7.1 | 6.5 | 6.4 | 9.5 | 8.9 | 11.1 |
| 106599103 | rxrgb\_3 | Signalling | 0.7 | 2.8 | 0.7 | 0.5 | 1.5 | 0.5 | 2.9 | 5.3 | 5.7 | 30.3 | 24.0 | 25.3 |
| 106596748 | rxrgb\_1 | Signalling | 11.6 | 7.3 | 6.4 | 63.0 | 49.0 | 61.0 | 10.2 | 6.7 | 5.1 | 62.6 | 87.9 | 105.1 |